Characteristics of Scientists and Engineers in the United States: 2003 (SESTAT)

Detailed Statistical Tables | NSF 11-315 | July 2011

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General Notes

During the production of this report, the America COMPETES Reauthorization Act of 2010 was signed into law. Section 505 of the bill renames the Division of Science Resources Statistics as the National Center for Science and Engineering Statistics (NCSES). The Center retains its reporting line to the Directorate for Social, Behavioral, and Economic Sciences within the National Science Foundation. The new name signals the central role of NCSES in the collection, interpretation, analysis, and dissemination of objective data on the science and engineering enterprise.

The Scientists and Engineers Statistical Data System (SESTAT) is a comprehensive and integrated system of information about employment, education, and demographic characteristics of scientists and engineers in the United States. It is intended to provide policymakers, researchers, and planners with high-quality data on the size, composition, and employment patterns of the nation's science and engineering (S&E) workforce.

SESTAT includes data from three national sample surveys supported by the National Science Foundation (NSF): the National Survey of College Graduates (NSCG), the National Survey of Recent College Graduates (NSRCG), and the Survey of Doctorate Recipients (SDR). Each survey is conducted every 2 to 3 years and is administered to a different sampled segment of the U.S. population having a bachelor's degree or higher, with an emphasis on graduates from U.S. institutions with a degree in science or engineering.

The 2003 SESTAT represents the population with a bachelor's degree or higher in an S&E field, an S&E-related field, or a non-S&E field but working in an S&E or S&E-related occupation. Although this designated target population is broad and includes many fields of study and many occupations, SESTAT does not represent other groups that can be considered part of the population of scientists and engineers, such as S&E technicians with less than a bachelor's degree.

The detailed statistical tables presented here provide information on the number and median salaries of scientists and engineers by field of highest degree and occupation; demographic characteristics, such as sex, race/ethnicity, citizenship, disability, and age; and employment-related characteristics, such as sector of employment and primary/secondary work activity. The technical appendix provides methodological information about SESTAT, including coverage, component surveys (and links to questionnaires), editing and imputation, sample weights, sampling error and standard error tables, and selected definitions and explanations, including links to degree and occupation classification taxonomies used in SESTAT.

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TABLE 1. U.S. scientists and engineers, by degree background and labor force status: 2003

Degree background	All scientists and engineers	In labor force					Not in labor force
		Employed, by occupation				Unemployed	
		Total	S&E	S&E related	Non-S&E		
Scientists and engineers	21,647,000	18,021,000	4,817,000	5,331,000	7,873,000	595,000	3,031,000
Educated in S&E (holds at least one S&E degree)	15,684,000	12,815,000	3,880,000	2,114,000	6,821,000	519,000	2,350,000
Highest degree in S&E field	11,880,000	9,579,000	3,550,000	1,119,000	4,909,000	414,000	1,886,000
Highest degree in S&E-related field	1,151,000	1,014,000	70,000	838,000	107,000	16,000	120,000
Highest degree in non-S&E field	2,654,000	2,221,000	260,000	157,000	1,805,000	89,000	344,000
No S&E degree but holds at least one S&E-related degree	4,453,000	3,696,000	216,000	2,428,000	1,052,000	76,000	681,000
Highest degree in S&E-related field	4,053,000	3,369,000	198,000	2,314,000	856,000	68,000	616,000
Highest degree in non-S&E field	400,000	328,000	18,000	114,000	196,000	8,000	65,000
Non-S&E degree only	1,510,000	1,510,000	721,000	789,000	ne	ne	ne

ne = not eligible; does not meet SESTAT population criteria.

S&E = science and engineering.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification, and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 2. U.S. scientists and engineers, by labor force status, degree background, and level of highest degree: 2003

Labor force status and degree background	Level of highest degree									
	All degree levels		Bachelor's		Master's		Doctorate		Professional	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Scientists and engineers	21,647,000	100.0	12,782,000	59.0	5,967,000	28.0	1,026,000	5.0	1,873,000	9.0
Employed	18,021,000	100.0	10,490,000	58.0	4,979,000	28.0	885,000	5.0	1,667,000	9.0
Employed in S&E occupation	4,817,000	100.0	2,786,000	58.0	1,424,000	30.0	558,000	12.0	49,000	1.0
Educated in S&E (holds at least one S&E degree)	3,880,000	100.0	2,092,000	54.0	1,216,000	31.0	539,000	14.0	33,000	1.0
No S&E degree but holds at least one S&E-related degree	216,000	100.0	147,000	68.0	52,000	24.0	8,000	4.0	9,000	4.0
Non-S&E degree only	721,000	100.0	548,000	76.0	156,000	22.0	11,000	2.0	6,000	1.0
Employed in S&E-related occupation	5,331,000	100.0	2,956,000	56.0	1,228,000	23.0	105,000	2.0	1,042,000	20.0
Educated in S&E (holds at least one S&E degree)	2,114,000	100.0	926,000	44.0	500,000	24.0	70,000	3.0	618,000	29.0
No S&E degree but holds at least one S&E-related degree	2,428,000	100.0	1,451,000	60.0	534,000	22.0	26,000	1.0	417,000	17.0
Non-S&E degree only	789,000	100.0	579,000	73.0	194,000	25.0	9,000	1.0	7,000	1.0
Employed in non-S&E occupation	7,873,000	100.0	4,747,000	60.0	2,328,000	30.0	222,000	3.0	576,000	7.0
Educated in S&E (holds at least one S&E degree)	6,821,000	100.0	4,099,000	60.0	1,990,000	29.0	199,000	3.0	533,000	8.0
No S&E degree but holds at least one S&E-related degree	1,052,000	100.0	648,000	62.0	337,000	32.0	23,000	2.0	43,000	4.0
Non-S&E degree only	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Unemployed	595,000	100.0	368,000	62.0	173,000	29.0	21,000	4.0	32,000	5.0
Educated in S&E (holds at least one S&E degree)	519,000	100.0	321,000	62.0	151,000	29.0	20,000	4.0	27,000	5.0
No S&E degree but holds at least one S&E-related degree	76,000	100.0	47,000	63.0	22,000	29.0	1,000	2.0	5,000	6.0
Non-S&E degree only	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Not in labor force	3,031,000	100.0	1,924,000	64.0	814,000	27.0	119,000	4.0	174,000	6.0
Educated in S&E (holds at least one S&E degree)	2,350,000	100.0	1,478,000	63.0	657,000	28.0	111,000	5.0	104,000	4.0
No S&E degree but holds at least one S&E-related degree	681,000	100.0	446,000	66.0	157,000	23.0	8,000	1.0	69,000	10.0
Non-S&E degree only	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne

ne = not eligible; does not meet SESTAT population criteria.

S&E = science and engineering.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification, and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 3. Relationship of highest degree to type of occupation of U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		Relationship of highest degree to type of occupation											
			S&E occupation				S&E-related occupation				Non-S&E occupation			
	Number	Percent	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
All levels and fields[a]	18,021,000	100.0	26.7	16.7	7.1	2.9	29.6	22.7	4.4	2.5	43.7	17.3	12.8	13.6
S&E fields	9,579,000	100.0	37.1	25.5	9.2	2.4	11.7	6.7	3.5	1.5	51.3	14.3	17.2	19.8
Sciences	7,245,000	100.0	28.8	19.7	6.7	2.4	12.7	7.3	3.7	1.7	58.5	16.2	19.0	23.4
Biological/agricultural/environmental life sciences	1,481,000	100.0	29.9	20.6	6.7	2.6	24.2	15.2	7.1	1.9	45.8	12.3	11.7	21.8
Agricultural sciences	249,000	100.0	20.1	14.4	4.9	0.8	9.7	4.9	4.0	0.8	70.1	30.1	16.9	23.1
Biological sciences	1,081,000	100.0	30.9	21.1	6.9	3.0	28.9	18.7	8.0	2.1	40.2	8.5	10.2	21.5
Environmental life sciences	151,000	100.0	39.4	26.9	9.1	3.4	14.6	6.8	5.7	2.0	46.0	10.1	14.1	21.7
Computer/mathematical sciences	1,437,000	100.0	56.0	41.7	12.9	1.4	14.2	10.1	3.5	0.6	29.7	8.3	10.4	11.1
Computer/information sciences	961,000	100.0	65.4	52.4	12.1	0.8	10.5	7.9	2.3	0.3	24.1	7.7	8.0	8.5
Mathematics/statistics	476,000	100.0	37.2	20.2	14.5	2.5	21.7	14.4	6.1	1.2	41.1	9.6	15.2	16.3
Physical/related sciences	694,000	100.0	50.2	32.7	13.7	3.9	13.9	7.9	3.9	2.2	35.9	7.3	12.2	16.4
Chemistry, except biochemistry	326,000	100.0	48.3	33.1	12.2	3.0	16.6	10.6	4.0	2.1	35.1	7.8	12.2	15.1
Earth/atmospheric/ocean sciences	170,000	100.0	52.8	36.5	13.4	3.0	11.1	5.4	3.2	2.5	36.1	5.0	10.3	20.8
Physics/astronomy	152,000	100.0	60.0	33.5	19.2	7.4	11.4	5.5	3.9	2.0	28.6	5.3	12.9	10.4
Other physical sciences	45,000	100.0	21.1	12.6	7.0	1.5	13.3	5.7	5.6	S	65.6	19.3	16.5	29.8
Social/related sciences	3,633,000	100.0	13.5	8.1	2.9	2.4	7.1	2.9	2.2	2.0	79.4	22.5	26.7	30.2
Economics	551,000	100.0	13.4	6.3	4.0	3.0	3.7	0.7	1.7	1.4	82.9	23.9	32.8	26.1
Political/related sciences	666,000	100.0	10.6	4.1	2.9	3.6	4.3	1.3	1.6	1.4	85.1	16.5	27.3	41.3
Psychology	1,335,000	100.0	17.3	12.7	2.8	1.9	8.5	3.9	2.3	2.2	74.2	26.3	23.0	24.9
Sociology/anthropology	684,000	100.0	10.0	5.9	2.2	1.9	7.0	2.1	2.7	2.2	83.1	21.9	30.3	30.9
Other social sciences	398,000	100.0	11.4	5.6	3.2	2.6	12.3	6.7	2.9	2.7	76.4	19.1	23.5	33.8
Engineering	2,334,000	100.0	62.7	43.7	16.7	2.4	8.7	4.8	3.1	0.8	28.6	8.5	11.6	8.6
Aerospace/aeronautical/astronautical engineering	85,000	100.0	52.5	36.9	11.1	4.4	8.7	4.8	1.8	2.1	38.9	15.1	15.6	8.1
Chemical engineering	159,000	100.0	61.0	36.2	21.6	3.2	9.5	3.1	4.6	1.8	29.5	6.2	14.4	8.9
Civil/architectural engineering	385,000	100.0	62.3	49.6	11.2	1.5	10.2	7.5	2.2	0.6	27.4	11.1	10.1	6.2
Electrical/computer engineering	748,000	100.0	70.6	49.4	19.3	2.0	8.4	4.7	3.2	0.6	21.0	6.6	6.7	7.6
Industrial engineering	134,000	100.0	47.8	29.3	17.5	1.0	7.3	1.9	3.9	1.4	44.9	11.7	18.9	14.3
Mechanical engineering	492,000	100.0	60.9	41.5	17.1	2.3	7.4	3.5	3.4	0.5	31.7	7.1	15.7	8.9
Other engineering	330,000	100.0	57.5	38.0	15.4	4.1	9.4	5.8	2.9	0.7	33.1	9.6	12.9	10.6
S&E-related fields	4,383,000	100.0	6.1	4.2	1.4	0.5	71.9	65.8	4.9	1.2	22.0	8.1	6.0	7.9
Health	3,373,000	100.0	2.6	1.7	0.5	0.3	83.0	76.4	5.4	1.3	14.4	5.1	3.3	5.9
Science/mathematics teacher education	340,000	100.0	6.8	4.4	1.4	1.0	45.0	40.8	2.7	1.5	48.1	19.8	11.6	16.8
Technology/technical fields	334,000	100.0	39.2	28.0	9.8	1.3	12.8	8.2	3.6	0.9	48.1	16.7	18.6	12.8
Other S&E-related fields	336,000	100.0	8.3	5.7	1.9	0.7	46.0	41.7	3.7	S	45.7	18.0	13.9	13.7
Non-S&E fields	4,059,000	100.0	24.6	9.3	8.5	6.7	26.1	14.0	5.9	6.2	49.3	34.4	9.9	5.0

TABLE 3. Relationship of highest degree to type of occupation of U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		Relationship of highest degree to type of occupation											
			S&E occupation				S&E-related occupation				Non-S&E occupation			
	Number	Percent	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Arts/humanities	366,000	100.0	39.9	8.5	7.5	23.9	42.2	18.5	6.9	16.8	17.9	9.7	4.6	3.7
Education, except science/mathematics teacher education	890,000	100.0	10.4	4.4	3.0	2.9	44.1	31.5	6.7	5.9	45.5	33.0	6.9	5.6
Management/administration	1,367,000	100.0	37.5	15.0	16.4	6.1	21.7	9.5	6.8	5.4	40.8	22.7	14.0	4.2
Sales/marketing	144,000	100.0	36.1	12.6	14.8	8.6	16.8	2.7	6.4	7.7	47.2	23.5	16.7	7.0
Social services/related	317,000	100.0	14.9	7.7	1.2	6.0	16.1	7.6	3.1	5.4	68.9	55.3	8.0	5.6
Other non-S&E fields	975,000	100.0	15.2	6.1	4.4	4.7	14.5	6.6	4.4	3.5	70.4	56.1	8.6	5.7
Bachelor's degrees	10,490,000	100.0	26.6	15.1	7.8	3.7	28.2	19.7	5.2	3.3	45.3	11.6	15.1	18.6
S&E fields	6,953,000	100.0	29.9	19.2	8.3	2.4	12.1	6.8	3.7	1.6	58.0	14.1	19.8	24.1
Sciences	5,276,000	100.0	20.9	12.6	5.9	2.4	13.1	7.4	3.8	1.9	66.0	15.8	21.7	28.5
Biological/agricultural/environmental life sciences	1,082,000	100.0	20.7	12.3	5.8	2.7	25.7	16.0	7.6	2.1	53.6	13.9	12.9	26.8
Agricultural sciences	199,000	100.0	13.1	8.2	4.2	0.7	8.8	3.9	4.1	0.8	78.1	34.0	17.7	26.5
Biological sciences	767,000	100.0	20.5	11.6	5.8	3.1	31.7	20.5	8.8	2.4	47.8	9.3	11.1	27.4
Environmental life sciences	116,000	100.0	35.3	23.7	8.2	3.4	15.1	7.0	5.9	2.2	49.6	10.3	16.1	23.2
Computer/mathematical sciences	1,010,000	100.0	51.6	37.5	12.9	1.2	14.7	10.6	3.6	0.5	33.7	8.1	11.9	13.7
Computer/information sciences	667,000	100.0	63.7	50.6	12.4	0.8	10.1	8.0	1.8	0.3	26.2	7.1	8.8	10.4
Mathematics/statistics	343,000	100.0	28.2	12.3	13.8	2.1	23.6	15.6	7.0	0.9	48.2	10.0	18.1	20.1
Physical/related sciences	423,000	100.0	38.9	23.5	11.7	3.6	15.0	8.9	3.8	2.3	46.2	8.9	15.1	22.2
Chemistry, except biochemistry	209,000	100.0	38.2	25.3	9.9	2.9	18.1	11.9	3.7	2.4	43.7	9.9	15.8	18.0
Earth/atmospheric/ocean sciences	105,000	100.0	43.4	27.5	13.1	2.9	10.7	5.4	2.6	2.6	45.9	4.9	11.2	29.8
Physics/astronomy	73,000	100.0	45.6	20.1	17.8	7.7	12.4	6.9	4.3	1.2	42.0	5.6	17.5	18.9
Other physical sciences	36,000	100.0	16.0	8.6	6.1	S	14.6	6.0	6.1	S	69.4	20.7	17.4	31.3
Social/related sciences	2,760,000	100.0	7.0	1.9	2.5	2.6	7.3	2.6	2.3	2.3	85.7	20.3	29.8	35.6
Economics	455,000	100.0	8.6	2.1	3.4	3.1	3.8	0.6	1.8	1.4	87.5	24.5	34.6	28.4
Political/related sciences	548,000	100.0	7.7	1.5	2.3	3.8	4.1	1.4	1.1	1.5	88.3	14.8	28.4	45.1
Psychology	849,000	100.0	6.4	1.8	2.6	2.0	9.4	3.7	2.7	3.0	84.1	21.9	28.6	33.7
Sociology/anthropology	605,000	100.0	5.4	1.8	1.7	1.9	7.3	2.2	2.9	2.2	87.3	22.0	32.0	33.2
Other social sciences	303,000	100.0	8.1	3.0	2.4	2.7	12.2	5.9	3.1	3.2	79.7	16.5	23.6	39.6
Engineering	1,677,000	100.0	58.1	40.1	15.9	2.1	9.1	5.0	3.3	0.8	32.8	9.0	13.6	10.1
Aerospace/aeronautical/astronautical engineering	64,000	100.0	43.7	27.8	11.7	4.3	9.1	4.9	1.7	S	47.2	19.3	18.5	9.3
Chemical engineering	116,000	100.0	58.7	34.3	22.0	2.4	9.9	3.3	4.6	2.0	31.5	6.2	14.8	10.4
Civil/architectural engineering	288,000	100.0	59.4	47.1	10.8	1.4	10.6	7.7	2.2	0.7	30.0	11.9	11.9	6.2
Electrical/computer engineering	518,000	100.0	66.1	45.3	19.0	1.8	9.3	4.7	3.9	0.7	24.6	6.6	8.4	9.6
Industrial engineering	101,000	100.0	41.9	26.3	14.8	0.8	7.7	1.3	4.4	1.9	50.5	10.8	21.5	18.2
Mechanical engineering	393,000	100.0	57.7	39.8	15.7	2.1	7.2	3.6	3.2	0.4	35.1	7.7	18.0	9.4
Other engineering	197,000	100.0	48.6	30.9	13.9	3.8	10.5	7.3	2.9	0.4	40.9	11.1	15.1	14.8

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(Percent distribution)

Level and field of highest degree	All occupations		Relationship of highest degree to type of occupation											
			S&E occupation				S&E-related occupation				Non-S&E occupation			
	Number	Percent	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
S&E-related fields	2,322,000	100.0	6.5	4.1	1.7	0.7	65.6	57.5	6.5	1.5	27.9	8.2	8.3	11.4
Health	1,621,000	100.0	1.7	0.9	0.4	0.5	80.4	70.9	7.9	1.7	17.8	4.0	4.6	9.2
Science/mathematics teacher education	185,000	100.0	4.0	1.4	1.7	1.0	40.8	36.6	2.7	1.6	55.2	19.0	15.7	20.5
Technology/technical fields	282,000	100.0	36.3	25.9	9.0	1.4	12.5	8.2	3.3	1.0	51.2	17.4	20.3	13.6
Other S&E-related fields	235,000	100.0	5.5	2.5	2.1	0.9	46.2	41.2	4.2	S	48.3	18.0	13.8	16.5
Non-S&E fields	1,215,000	100.0	45.9	12.8	16.2	16.9	48.5	21.1	11.3	16.1	5.6	3.3	1.6	0.7
Arts/humanities	252,000	100.0	48.6	9.7	9.1	29.9	48.8	18.7	8.5	21.6	2.5	1.5	S	S
Education, except science/mathematics teacher education	217,000	100.0	17.1	3.2	5.9	8.0	72.7	43.6	11.5	17.6	10.2	6.8	S	1.5
Management/administration	468,000	100.0	56.1	18.8	25.5	11.8	38.1	14.6	11.9	11.7	5.8	2.8	2.5	0.5
Sales/marketing	53,000	100.0	62.8	16.8	25.4	20.6	36.1	4.3	11.9	19.9	S	S	S	S
Social services/related	40,000	100.0	42.7	3.5	4.1	35.1	50.8	15.6	8.2	27.1	6.5	5.3	S	S
Other non-S&E fields	185,000	100.0	46.2	13.9	14.4	17.8	49.1	20.4	13.9	14.7	4.8	2.8	1.6	S
Master's degrees	4,979,000	100.0	28.6	19.2	7.2	2.2	24.7	18.9	4.0	1.7	46.8	26.3	12.3	8.2
S&E fields	1,919,000	100.0	49.3	36.4	10.5	2.4	11.2	7.0	3.2	1.0	39.6	17.5	12.1	10.0
Sciences	1,384,000	100.0	39.9	30.1	7.6	2.2	12.5	7.9	3.4	1.2	47.6	21.4	14.2	11.9
Biological/agricultural/environmental life sciences	209,000	100.0	40.1	30.2	7.1	2.8	24.0	16.4	6.4	1.3	35.9	10.8	12.4	12.8
Agricultural sciences	31,000	100.0	35.8	29.9	5.1	S	14.8	9.6	4.3	S	49.4	20.4	17.8	11.1
Biological sciences	148,000	100.0	39.2	29.6	6.6	3.0	28.1	19.9	6.9	1.3	32.7	8.8	12.2	11.7
Environmental life sciences	30,000	100.0	48.8	33.4	11.7	3.6	13.4	5.8	S	S	37.8	10.3	7.9	19.6
Computer/mathematical sciences	375,000	100.0	64.2	49.8	12.7	1.6	14.2	9.8	3.6	0.8	21.7	9.4	7.1	5.2
Computer/information sciences	277,000	100.0	68.4	56.1	11.3	1.0	11.6	8.1	3.2	0.3	20.0	9.3	6.3	4.4
Mathematics/statistics	98,000	100.0	52.1	32.2	16.7	3.2	21.5	14.4	4.8	2.3	26.3	9.7	9.2	7.5
Physical/related sciences	130,000	100.0	59.0	42.9	13.4	2.8	16.1	8.9	4.8	2.4	24.9	5.3	9.8	9.8
Chemistry, except biochemistry	46,000	100.0	55.9	42.6	12.0	1.3	20.4	13.9	5.3	S	23.7	4.0	3.4	16.3
Earth/atmospheric/ocean sciences	47,000	100.0	62.7	45.2	14.7	2.8	13.9	6.3	4.8	S	23.4	5.6	11.0	6.8
Physics/astronomy	31,000	100.0	62.5	42.3	14.9	5.3	14.2	6.2	4.0	3.9	23.3	5.3	15.8	S
Other physical sciences	5,000	100.0	31.2	27.2	S	S	9.7	S	S	S	59.1	S	S	S
Social/related sciences	670,000	100.0	22.6	16.7	3.7	2.2	7.4	4.1	2.0	1.2	70.1	34.6	19.7	15.8
Economics	72,000	100.0	24.5	14.3	6.9	3.2	4.1	S	1.6	S	71.4	23.3	29.4	18.7
Political/related sciences	97,000	100.0	16.6	8.5	5.3	2.7	5.9	1.2	4.0	S	77.5	26.2	24.0	27.3
Psychology	373,000	100.0	23.7	19.7	2.0	1.9	7.4	4.7	1.7	0.9	68.9	41.8	15.4	11.7
Sociology/anthropology	52,000	100.0	34.3	26.2	5.8	2.3	3.9	S	S	S	61.8	25.3	19.7	16.7
Other social sciences	77,000	100.0	15.0	7.6	5.4	2.0	14.2	10.5	2.4	1.3	70.8	27.5	25.7	17.6
Engineering	535,000	100.0	73.5	52.5	18.1	2.9	7.6	4.6	2.6	0.5	18.9	7.5	6.5	4.9
Aerospace/aeronautical/astronautical engineering	15,000	100.0	75.8	63.4	7.9	4.5	8.5	S	S	S	15.7	2.8	6.9	S

TABLE 3. Relationship of highest degree to type of occupation of U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		Relationship of highest degree to type of occupation											
			S&E occupation				S&E-related occupation				Non-S&E occupation			
	Number	Percent	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Chemical engineering	27,000	100.0	64.0	39.8	18.4	5.8	9.3	S	6.2	S	26.7	6.4	15.6	4.7
Civil/architectural engineering	86,000	100.0	69.5	56.2	11.5	1.8	9.8	7.5	2.2	S	20.7	9.6	4.7	6.4
Electrical/computer engineering	194,000	100.0	80.9	59.0	19.6	2.3	6.6	4.8	1.6	S	12.6	6.6	2.5	3.5
Industrial engineering	29,000	100.0	65.3	36.8	26.7	1.8	6.7	3.9	2.6	S	28.0	14.6	10.9	S
Mechanical engineering	84,000	100.0	72.1	47.1	22.1	2.9	8.4	3.3	4.1	S	19.5	4.6	7.3	7.7
Other engineering	99,000	100.0	68.3	47.6	16.4	4.4	6.8	3.3	2.5	1.0	24.8	8.7	11.5	4.7
S&E-related fields	915,000	100.0	8.9	6.7	1.8	0.4	63.1	56.1	5.2	1.7	28.0	15.3	6.3	6.5
Health	624,000	100.0	4.4	3.1	1.0	0.2	71.9	63.6	6.1	2.2	23.8	14.7	4.4	4.6
Science/mathematics teacher education	147,000	100.0	9.0	6.6	1.2	S	52.5	48.1	2.9	1.5	38.5	18.5	7.0	13.0
Technology/technical fields	49,000	100.0	54.4	39.8	13.7	S	13.9	7.9	5.6	S	31.8	12.8	10.3	8.7
Other S&E-related fields	95,000	100.0	14.9	13.1	1.4	S	47.0	44.3	2.7	S	38.1	15.2	15.0	7.9
Non-S&E fields	2,145,000	100.0	18.5	9.2	6.6	2.7	20.3	13.7	4.3	2.3	61.1	38.8	15.1	7.3
Arts/humanities	97,000	100.0	20.6	5.6	4.4	10.5	31.6	21.1	3.3	7.2	47.9	23.8	13.8	10.2
Education, except science/mathematics teacher education	606,000	100.0	7.2	3.9	2.0	1.3	36.4	29.1	5.2	2.2	56.4	40.8	8.2	7.4
Management/administration	882,000	100.0	27.9	12.9	11.9	3.2	13.4	7.0	4.2	2.2	58.7	32.6	20.1	6.0
Sales/marketing	90,000	100.0	20.8	10.3	8.8	1.7	5.4	1.7	3.3	S	73.7	35.7	26.7	11.3
Social services/related	248,000	100.0	10.9	8.5	0.7	1.7	11.5	7.0	2.1	2.4	77.6	62.1	9.0	6.5
Other non-S&E fields	222,000	100.0	18.7	10.5	5.2	2.9	15.1	8.0	5.0	2.1	66.2	39.6	16.5	10.1
Doctorate degrees	885,000	100.0	63.0	48.4	11.7	2.9	11.9	7.5	3.1	1.3	25.1	14.2	6.6	4.3
S&E fields	690,000	100.0	74.5	57.3	14.1	3.1	8.8	4.6	3.0	1.2	16.7	6.7	6.1	3.9
Sciences	568,000	100.0	73.6	58.0	12.7	2.9	9.2	4.9	3.1	1.2	17.3	7.0	6.2	4.1
Biological/agricultural/environmental life sciences	191,000	100.0	71.1	57.1	12.0	2.1	15.9	9.2	5.0	1.7	12.9	4.8	4.5	3.7
Agricultural sciences	19,000	100.0	67.0	52.6	11.9	2.5	10.9	7.2	2.9	0.8	22.1	6.8	7.5	7.8
Biological sciences	165,000	100.0	71.5	57.5	12.0	2.0	16.7	9.4	5.4	1.9	11.8	4.6	4.1	3.2
Environmental life sciences	6,000	100.0	75.1	59.4	13.2	2.4	10.8	9.6	S	S	14.1	4.9	5.7	3.5
Computer/mathematical sciences	51,000	100.0	83.5	64.1	15.8	3.7	4.9	1.9	2.1	0.9	11.6	5.4	3.9	2.3
Computer/information sciences	17,000	100.0	80.9	62.6	16.7	1.6	7.7	3.1	4.1	S	11.4	5.9	5.0	0.5
Mathematics/statistics	34,000	100.0	84.9	64.8	15.3	4.7	3.5	1.3	1.1	1.0	11.7	5.1	3.3	3.3
Physical/related sciences	141,000	100.0	76.2	50.7	19.8	5.7	8.6	3.6	3.3	1.7	15.2	4.5	5.7	5.1
Chemistry, except biochemistry	71,000	100.0	73.1	49.6	18.9	4.6	9.7	4.4	3.8	1.6	17.2	4.0	7.5	5.7
Earth/atmospheric/ocean sciences	18,000	100.0	81.6	66.1	11.9	3.6	6.0	2.7	2.3	1.0	12.3	3.8	3.7	4.9
Physics/astronomy	48,000	100.0	80.6	48.3	24.1	8.3	7.9	2.7	3.0	2.2	11.4	4.9	3.8	2.7
Other physical sciences	4,000	100.0	55.7	31.0	20.0	4.8	6.2	S	S	S	38.1	S	2.5	S
Social/related sciences	185,000	100.0	71.3	62.9	7.1	1.3	3.9	2.2	1.3	0.4	24.9	11.7	9.0	4.2
Economics	24,000	100.0	70.7	62.7	7.0	0.9	1.4	0.6	0.6	S	27.9	14.9	9.5	3.4

TABLE 3. Relationship of highest degree to type of occupation of U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		Relationship of highest degree to type of occupation											
			S&E occupation				S&E-related occupation				Non-S&E occupation			
	Number	Percent	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Political/related sciences	21,000	100.0	61.2	51.1	8.5	1.6	1.8	0.5	0.9	S	37.0	15.4	14.0	7.6
Psychology	96,000	100.0	78.6	70.5	7.0	1.1	4.5	3.0	1.1	0.4	16.9	7.0	6.7	3.2
Sociology/anthropology	27,000	100.0	66.9	59.0	6.8	1.1	4.4	1.9	1.6	0.8	28.8	12.0	10.7	6.1
Other social sciences	18,000	100.0	50.8	41.1	6.9	2.9	5.6	2.5	3.0	S	43.6	27.7	12.1	3.9
Engineering	122,000	100.0	79.0	54.2	20.9	3.9	7.0	3.4	2.6	1.1	14.0	5.1	5.5	3.3
Aerospace/aeronautical/astronautical engineering	6,000	100.0	85.7	66.2	13.7	5.8	4.4	S	2.4	S	9.9	2.5	6.8	S
Chemical engineering	16,000	100.0	73.0	44.1	23.9	4.9	7.0	3.0	2.2	1.8	20.0	5.4	9.2	5.4
Civil/architectural engineering	11,000	100.0	84.2	64.0	18.2	2.0	4.2	3.7	S	S	11.6	3.1	3.0	5.5
Electrical/computer engineering	36,000	100.0	80.2	56.3	20.7	3.2	5.9	3.0	2.1	0.8	14.0	7.0	4.9	2.0
Industrial engineering	4,000	100.0	69.8	52.4	16.3	S	S	S	S	S	27.6	13.2	11.5	S
Mechanical engineering	15,000	100.0	81.4	54.7	23.2	3.5	7.2	3.2	3.1	0.9	11.4	3.5	4.7	3.2
Other engineering	34,000	100.0	77.7	51.5	21.2	5.0	10.1	4.5	4.0	1.5	12.2	4.0	4.7	3.5
S&E-related fields	59,000	100.0	28.0	23.6	3.7	0.8	43.8	37.5	3.7	2.5	28.2	23.3	2.7	2.2
Health	41,000	100.0	27.2	22.6	3.9	0.8	56.2	47.4	5.4	3.4	16.6	10.6	3.1	2.9
Science/mathematics teacher education	9,000	100.0	31.4	30.6	S	S	S	S	S	S	60.7	59.1	S	S
Technology/technical fields	3,000	100.0	61.4	39.1	S	S	S	S	S	S	S	S	S	S
Other S&E-related fields	7,000	100.0	15.0	15.0	S	S	S	S	S	S	60.9	57.4	S	S
Non-S&E fields	136,000	100.0	20.0	14.1	2.7	3.2	13.6	9.3	3.1	S	66.4	48.0	11.1	7.3
Arts/humanities	17,000	100.0	18.4	5.6	S	11.9	S	S	S	S	76.6	50.2	15.3	11.1
Education, except science/mathematics teacher education	64,000	100.0	18.7	13.7	3.4	S	18.3	13.6	3.0	S	63.0	48.9	10.7	3.4
Management/administration	14,000	100.0	23.4	19.5	S	S	S	S	S	S	75.5	55.0	S	S
Sales/marketing	2,000	100.0	S	S	S	S	S	S	S	S	90.6	80.7	S	S
Social services/related	19,000	100.0	15.4	8.2	S	S	S	S	S	S	72.8	61.9	8.5	S
Other non-S&E fields	21,000	100.0	28.7	24.7	S	S	16.3	15.0	S	S	55.0	24.3	12.4	18.3

S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification, and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 4. Occupational category of employed U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		S&E occupations					S&E-related occupations					Non-S&E occupations
	Number	Percent	Computer/ mathematical scientists	Biological/ agricultural/ other life scientists	Physical/ related scientists	Social/ related scientists	Engineers	Health occupations	S&E managers	S&E precollege teachers	S&E technicians and technologists	Other S&E-related jobs	
All levels and fields[a]	18,021,000	100.0	11.1	2.5	1.7	2.7	8.6	19.5	2.1	4.0	2.8	1.2	43.7
S&E fields	9,579,000	100.0	13.5	3.7	3.0	3.5	13.4	4.3	2.0	2.0	3.0	0.5	51.3
Sciences	7,245,000	100.0	13.7	4.9	3.7	4.5	2.0	5.4	1.4	2.5	3.0	0.3	58.5
Biological/agricultural/environmental life sciences	1,481,000	100.0	3.2	21.2	3.0	0.5	2.1	15.0	1.4	3.3	4.4	0.2	45.8
Agricultural sciences	249,000	100.0	1.1	14.7	2.3	0.2	1.8	5.1	0.4	1.0	2.9	S	70.1
Biological sciences	1,081,000	100.0	3.4	23.0	2.6	0.4	1.4	19.0	1.5	4.0	4.3	0.1	40.2
Environmental life sciences	151,000	100.0	4.9	18.5	7.0	1.8	7.3	2.3	2.1	2.0	7.5	S	46.0
Computer/mathematical sciences	1,437,000	100.0	52.4	0.1	0.2	0.5	2.8	0.5	2.8	4.0	5.8	1.2	29.7
Computer/information sciences	961,000	100.0	62.0	0.1	S	0.5	2.7	0.4	3.7	1.0	5.2	0.2	24.1
Mathematics/statistics	476,000	100.0	33.1	0.2	0.4	0.6	2.9	0.7	1.0	10.0	6.9	3.2	41.1
Physical/related sciences	694,000	100.0	7.6	3.3	30.9	0.4	8.1	3.9	2.4	3.9	3.6	0.1	35.9
Chemistry, except biochemistry	326,000	100.0	4.7	5.4	33.5	0.5	4.1	6.6	2.0	4.1	3.9	S	35.1
Earth/atmospheric/ocean sciences	170,000	100.0	5.5	1.2	36.6	0.1	9.4	1.4	1.8	4.7	3.1	S	36.1
Physics/astronomy	152,000	100.0	16.7	1.3	25.4	0.5	16.0	0.8	3.5	3.1	3.7	0.2	28.6
Other physical sciences	45,000	100.0	5.2	2.0	9.5	S	4.5	4.4	3.4	2.8	2.3	S	65.6
Social/related sciences	3,633,000	100.0	3.9	0.4	0.1	8.6	0.5	3.8	0.7	1.3	1.2	0.1	79.4
Economics	551,000	100.0	5.8	0.6	S	6.3	0.7	0.6	0.7	0.6	1.5	0.3	82.9
Political/related sciences	666,000	100.0	4.2	0.1	S	5.5	0.8	1.4	0.9	1.2	0.8	S	85.1
Psychology	1,335,000	100.0	2.9	0.6	S	13.4	0.4	5.7	0.9	1.0	0.8	S	74.2
Sociology/anthropology	684,000	100.0	3.2	0.4	0.1	6.1	0.2	4.4	0.5	1.2	0.8	S	83.1
Other social sciences	398,000	100.0	4.9	0.3	0.7	5.0	0.4	5.1	0.3	3.6	3.1	S	76.4
Engineering	2,334,000	100.0	12.8	0.3	0.7	0.2	48.8	0.6	3.6	0.5	3.2	0.8	28.6
Aerospace/aeronautical/astronautical engineering	85,000	100.0	9.8	S	0.5	S	42.1	S	4.6	S	1.7	S	38.9
Chemical engineering	159,000	100.0	4.4	0.5	2.1	S	53.8	1.5	4.5	1.0	2.4	S	29.5
Civil/architectural engineering	385,000	100.0	2.9	S	0.2	S	59.2	S	3.2	0.3	2.6	3.8	27.4
Electrical/computer engineering	748,000	100.0	27.9	0.1	0.2	0.2	42.1	0.4	3.3	0.3	4.2	0.2	21.0
Industrial engineering	134,000	100.0	9.4	S	S	S	37.9	S	3.0	S	3.2	S	44.9
Mechanical engineering	492,000	100.0	5.0	S	0.3	S	55.4	0.2	4.0	0.5	2.7	S	31.7
Other engineering	330,000	100.0	7.9	1.2	2.5	0.4	45.5	1.1	3.8	0.8	3.2	S	33.1
S&E-related fields	4,383,000	100.0	2.5	1.0	0.3	0.5	1.8	62.6	1.5	3.4	1.0	3.4	22.0
Health	3,373,000	100.0	0.6	1.3	0.2	0.3	0.1	80.9	1.6	0.2	0.3	S	14.4
Science/mathematics teacher education	340,000	100.0	4.6	0.3	1.0	S	0.6	2.9	S	41.2	0.8	S	48.1
Technology/technical fields	334,000	100.0	20.0	S	S	S	18.7	1.4	2.3	0.6	7.8	S	48.1
Other S&E-related fields	336,000	100.0	1.3	S	S	3.2	3.5	S	1.0	S	1.4	43.0	45.7

TABLE 4. Occupational category of employed U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		S&E occupations					S&E-related occupations					Non-S&E occupations
	Number	Percent	Computer/ mathematical scientists	Biological/ agricultural/ other life scientists	Physical/ related scientists	Social/ related scientists	Engineers	Health occupations	S&E managers	S&E precollege teachers	S&E technicians and technologists	Other S&E-related jobs	
Non-S&E fields	4,059,000	100.0	15.0	1.0	0.5	3.4	4.7	8.9	3.2	9.3	4.1	0.6	49.3
Arts/humanities	366,000	100.0	29.8	0.6	0.8	4.1	4.5	15.5	3.4	12.4	8.3	2.7	17.9
Education, except science/mathematics teacher education	890,000	100.0	5.7	0.7	0.3	2.6	1.1	10.3	1.0	30.6	1.6	0.6	45.5
Management/administration	1,367,000	100.0	23.8	0.9	0.6	2.5	9.7	6.8	5.8	2.1	6.4	0.5	40.8
Sales/marketing	144,000	100.0	18.9	S	S	9.3	5.8	7.5	3.2	2.0	4.1	S	47.2
Social services/related	317,000	100.0	5.9	0.3	S	7.6	0.9	10.6	1.9	1.5	2.1	S	68.9
Other non-S&E fields	975,000	100.0	7.7	1.7	0.5	2.9	2.3	7.8	2.0	2.4	2.0	0.2	70.4
Bachelor's degrees	10,490,000	100.0	12.7	1.7	1.3	1.2	9.6	17.4	2.1	3.4	3.8	1.4	45.3
S&E fields	6,953,000	100.0	12.3	2.2	1.8	1.0	12.6	4.6	1.7	2.0	3.4	0.5	58.0
Sciences	5,276,000	100.0	12.6	2.9	2.3	1.3	1.9	5.9	1.1	2.4	3.3	0.4	66.0
Biological/agricultural/environmental life sciences	1,082,000	100.0	2.9	12.2	2.8	0.5	2.3	16.2	1.0	3.3	5.1	0.1	53.6
Agricultural sciences	199,000	100.0	1.2	8.0	1.9	S	1.8	5.0	S	S	2.9	S	78.1
Biological sciences	767,000	100.0	3.3	12.6	2.5	0.4	1.7	21.1	1.0	4.3	5.1	S	47.8
Environmental life sciences	116,000	100.0	3.2	17.2	6.3	S	7.0	2.8	S	1.2	9.2	S	49.6
Computer/mathematical sciences	1,010,000	100.0	48.5	0.1	0.2	0.3	2.6	0.5	2.3	4.2	6.3	1.3	33.7
Computer/information sciences	667,000	100.0	60.7	S	S	0.3	2.6	0.5	3.1	0.9	5.5	S	26.2
Mathematics/statistics	343,000	100.0	24.9	S	0.4	0.4	2.5	0.7	0.9	10.7	7.9	3.4	48.2
Physical/related sciences	423,000	100.0	7.6	2.2	20.2	0.4	8.4	5.4	1.7	3.5	4.3	S	46.2
Chemistry, except biochemistry	209,000	100.0	5.2	4.0	24.3	S	4.1	9.0	1.5	3.6	4.1	S	43.7
Earth/atmospheric/ocean sciences	105,000	100.0	6.4	0.4	24.7	S	11.9	1.2	S	4.0	4.3	S	45.9
Physics/astronomy	73,000	100.0	18.2	0.5	8.0	S	18.3	S	2.4	3.2	5.4	S	42.0
Other physical sciences	36,000	100.0	3.9	S	8.4	S	2.9	5.3	S	2.0	2.8	S	69.4
Social/related sciences	2,760,000	100.0	4.0	0.3	0.1	2.1	0.4	3.9	0.6	1.3	1.4	0.1	85.7
Economics	455,000	100.0	5.8	0.5	S	1.6	0.7	0.6	0.6	S	1.7	0.4	87.5
Political/related sciences	548,000	100.0	4.1	S	S	2.7	0.8	1.2	0.7	1.3	0.9	S	88.3
Psychology	849,000	100.0	3.4	0.4	S	2.3	0.3	6.4	0.7	1.0	1.2	S	84.1
Sociology/anthropology	605,000	100.0	3.2	0.3	S	1.7	S	4.6	0.5	1.4	0.7	S	87.3
Other social sciences	303,000	100.0	4.6	S	0.4	2.5	0.4	5.4	S	3.0	3.4	S	79.7
Engineering	1,677,000	100.0	11.3	0.1	0.4	0.1	46.2	0.7	3.6	0.5	3.6	0.8	32.8
Aerospace/aeronautical/astronautical engineering	64,000	100.0	9.1	S	S	S	34.6	S	5.1	S	1.8	S	47.2
Chemical engineering	116,000	100.0	3.4	S	1.5	S	53.2	1.8	5.1	0.7	2.2	S	31.5
Civil/architectural engineering	288,000	100.0	2.4	S	S	S	56.9	S	3.3	S	2.8	3.7	30.0
Electrical/computer engineering	518,000	100.0	25.8	S	S	S	40.0	0.6	3.0	0.4	5.1	0.3	24.6
Industrial engineering	101,000	100.0	6.6	S	S	S	35.1	S	3.4	S	3.4	S	50.5

TABLE 4. Occupational category of employed U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		S&E occupations					S&E-related occupations					Non-S&E occupations
	Number	Percent	Computer/ mathematical scientists	Biological/ agricultural/ other life scientists	Physical/ related scientists	Social/ related scientists	Engineers	Health occupations	S&E managers	S&E precollege teachers	S&E technicians and technologists	Other S&E-related jobs	
Mechanical engineering	393,000	100.0	4.2	S	S	S	53.2	0.2	3.8	0.6	2.6	S	35.1
Other engineering	197,000	100.0	7.7	0.8	1.4	S	38.5	1.2	3.6	0.8	4.4	S	40.9
S&E-related fields	2,322,000	100.0	3.1	0.4	0.1	0.3	2.6	55.0	1.6	3.0	1.6	4.4	27.9
Health	1,621,000	100.0	0.8	0.5	0.1	0.2	0.1	78.0	1.8	0.2	0.5	S	17.8
Science/mathematics teacher education	185,000	100.0	2.2	S	0.9	S	0.6	3.6	S	35.9	1.0	S	55.2
Technology/technical fields	282,000	100.0	18.4	S	S	S	17.7	1.7	1.7	S	8.4	S	51.2
Other S&E-related fields	235,000	100.0	1.5	S	S	1.1	2.9	S	1.0	S	1.9	42.5	48.3
Non-S&E fields	1,215,000	100.0	33.3	1.7	0.8	3.8	6.3	19.0	5.3	12.5	10.5	1.2	5.6
Arts/humanities	252,000	100.0	37.6	0.7	1.1	4.5	4.8	19.8	4.7	10.4	10.5	3.5	2.5
Education, except science/mathematics teacher education	217,000	100.0	12.3	0.9	S	0.9	2.6	22.6	1.9	41.7	4.5	S	10.2
Management/administration	468,000	100.0	42.9	1.7	0.5	2.8	8.3	12.9	6.8	3.8	14.4	0.3	5.8
Sales/marketing	53,000	100.0	37.9	S	S	13.6	9.3	17.8	S	3.4	9.5	S	S
Social services/related	40,000	100.0	34.7	S	S	S	4.1	34.4	S	S	9.2	S	6.5
Other non-S&E fields	185,000	100.0	26.4	4.9	1.1	6.3	7.5	26.1	6.7	7.9	8.3	S	4.8
Master's degrees	4,979,000	100.0	11.6	2.0	1.7	4.3	9.0	12.0	2.7	6.9	1.8	1.2	46.8
S&E fields	1,919,000	100.0	18.9	3.7	3.5	6.5	16.6	3.1	2.4	2.6	2.5	0.6	39.6
Sciences	1,384,000	100.0	19.3	5.0	4.5	8.9	2.3	4.1	2.0	3.5	2.5	0.4	47.6
Biological/agricultural/environmental life sciences	209,000	100.0	4.8	28.9	4.1	0.2	2.1	12.6	1.3	5.8	3.7	S	35.9
Agricultural sciences	31,000	100.0	S	29.7	3.5	S	2.1	7.3	S	5.2	S	S	49.4
Biological sciences	148,000	100.0	4.3	31.0	3.2	S	0.8	16.1	1.6	6.0	4.3	S	32.7
Environmental life sciences	30,000	100.0	11.9	18.0	9.2	S	8.4	S	S	S	2.1	S	37.8
Computer/mathematical sciences	375,000	100.0	59.4	0.3	S	0.9	3.4	0.4	4.1	3.8	4.7	1.1	21.7
Computer/information sciences	277,000	100.0	64.2	S	S	0.8	3.1	0.3	5.2	1.3	4.6	S	20.0
Mathematics/statistics	98,000	100.0	45.9	S	S	1.2	4.2	S	1.3	10.7	5.2	3.6	26.3
Physical/related sciences	130,000	100.0	7.9	3.1	39.8	S	7.6	2.1	2.2	8.5	3.4	S	24.9
Chemistry, except biochemistry	46,000	100.0	4.5	5.6	41.2	S	3.6	3.1	S	10.9	6.3	S	23.7
Earth/atmospheric/ocean sciences	47,000	100.0	3.9	2.2	50.5	S	6.1	S	S	7.5	1.4	S	23.4
Physics/astronomy	31,000	100.0	19.1	S	26.9	S	14.6	S	5.0	6.1	2.5	S	23.3
Other physical sciences	5,000	100.0	S	S	S	S	S	S	S	S	S	S	59.1
Social/related sciences	670,000	100.0	3.5	0.5	0.2	17.6	0.7	4.0	0.9	1.7	0.6	S	70.1
Economics	72,000	100.0	6.6	S	S	16.1	1.0	S	S	S	S	S	71.4
Political/related sciences	97,000	100.0	5.2	S	S	10.1	1.0	3.0	S	1.2	S	S	77.5
Psychology	373,000	100.0	2.1	0.5	S	20.4	0.5	5.1	0.9	1.2	S	S	68.9

TABLE 4. Occupational category of employed U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		S&E occupations					S&E-related occupations					Non-S&E occupations
	Number	Percent	Computer/ mathematical scientists	Biological/ agricultural/ other life scientists	Physical/ related scientists	Social/ related scientists	Engineers	Health occupations	S&E managers	S&E precollege teachers	S&E technicians and technologists	Other S&E-related jobs	
Sociology/anthropology	52,000	100.0	3.4	S	S	28.9	S	2.3	S	S	S	S	61.8
Other social sciences	77,000	100.0	5.3	0.7	1.5	7.2	S	4.3	S	6.5	2.5	S	70.8
Engineering	535,000	100.0	18.0	0.3	1.0	0.4	53.8	0.3	3.6	0.3	2.4	1.0	18.9
Aerospace/aeronautical/astronautical engineering	15,000	100.0	9.0	S	S	S	65.9	S	S	S	S	S	15.7
Chemical engineering	27,000	100.0	8.9	S	2.6	S	51.4	S	S	S	4.4	S	26.7
Civil/architectural engineering	86,000	100.0	4.2	S	S	S	65.0	S	2.8	S	1.9	4.8	20.7
Electrical/computer engineering	194,000	100.0	35.3	S	0.3	S	44.9	S	4.1	S	2.3	S	12.6
Industrial engineering	29,000	100.0	17.4	S	S	S	46.4	S	1.7	S	2.9	S	28.0
Mechanical engineering	84,000	100.0	8.5	S	S	S	63.1	S	4.7	S	3.7	S	19.5
Other engineering	99,000	100.0	8.2	1.2	3.4	0.9	54.6	S	3.3	S	1.3	S	24.8
S&E-related fields	915,000	100.0	3.4	1.2	0.6	1.5	2.1	46.7	2.7	8.3	0.6	4.7	28.0
Health	624,000	100.0	1.0	1.6	0.5	1.0	0.2	68.0	3.3	0.2	0.4	S	23.8
Science/mathematics teacher education	147,000	100.0	6.5	S	1.2	S	S	2.1	S	49.7	S	S	38.5
Technology/technical fields	49,000	100.0	29.0	S	S	S	23.9	S	6.3	3.4	4.2	S	31.8
Other S&E-related fields	95,000	100.0	1.0	S	S	7.9	5.4	S	S	S	S	45.7	38.1
Non-S&E fields	2,145,000	100.0	8.6	0.8	0.4	3.5	5.2	5.3	3.0	10.0	1.7	0.4	61.1
Arts/humanities	97,000	100.0	12.5	S	S	3.1	4.4	6.6	S	19.4	3.9	S	47.9
Education, except science/mathematics teacher education	606,000	100.0	3.5	0.6	S	2.3	0.6	6.0	0.6	29.0	0.8	S	56.4
Management/administration	882,000	100.0	14.0	0.5	0.7	2.2	10.5	3.7	5.4	1.3	2.4	0.6	58.7
Sales/marketing	90,000	100.0	8.0	S	S	7.0	3.8	1.5	1.9	S	S	S	73.7
Social services/related	248,000	100.0	1.6	S	S	8.6	0.5	7.8	1.6	0.9	1.3	S	77.6
Other non-S&E fields	222,000	100.0	7.3	2.7	0.6	5.1	2.9	7.7	2.8	2.6	1.8	S	66.2
Doctorate degrees	885,000	100.0	9.8	16.7	10.2	15.8	10.6	6.4	2.9	1.3	0.9	0.3	25.1
S&E fields	690,000	100.0	10.9	19.6	12.8	18.0	13.1	3.8	3.4	0.6	0.9	0.1	16.7
Sciences	568,000	100.0	10.8	23.5	14.8	21.9	2.6	4.4	3.1	0.6	0.9	0.1	17.3
Biological/agricultural/environmental life sciences	191,000	100.0	3.0	63.2	3.1	0.8	1.0	10.4	3.9	0.7	0.9	S	12.9
Agricultural sciences	19,000	100.0	1.6	59.1	4.2	0.8	1.2	2.3	4.3	S	3.8	S	22.1
Biological sciences	165,000	100.0	3.1	64.2	2.8	0.6	0.7	11.7	3.7	0.7	0.6	S	11.8
Environmental life sciences	6,000	100.0	2.2	48.4	10.6	6.0	7.9	S	8.3	S	S	S	14.1
Computer/mathematical sciences	51,000	100.0	78.7	0.8	0.4	0.6	3.1	0.4	1.7	0.7	1.9	0.3	11.6
Computer/information sciences	17,000	100.0	77.2	S	S	0.9	2.7	S	3.6	S	3.5	S	11.4
Mathematics/statistics	34,000	100.0	79.4	1.1	0.7	0.4	3.3	0.4	0.7	1.0	1.0	0.5	11.7
Physical/related sciences	141,000	100.0	7.1	6.4	54.9	0.3	7.5	1.2	4.5	1.2	1.6	S	15.2

TABLE 4. Occupational category of employed U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		S&E occupations					S&E-related occupations					Non-S&E occupations
	Number	Percent	Computer/ mathematical scientists	Biological/ agricultural/ other life scientists	Physical/ related scientists	Social/ related scientists	Engineers	Health occupations	S&E managers	S&E precollege teachers	S&E technicians and technologists	Other S&E-related jobs	
Chemistry, except biochemistry	71,000	100.0	3.5	9.3	55.5	0.2	4.6	2.0	4.8	1.4	1.6	S	17.2
Earth/atmospheric/ocean sciences	18,000	100.0	4.3	3.6	70.2	S	3.0	S	4.1	1.0	0.8	S	12.3
Physics/astronomy	48,000	100.0	12.8	2.7	51.1	0.4	13.6	0.5	4.3	1.1	1.9	S	11.4
Other physical sciences	4,000	100.0	S	12.6	21.3	S	5.1	S	S	S	S	S	38.1
Social/related sciences	185,000	100.0	2.9	1.9	0.4	65.8	0.3	1.9	1.6	0.2	0.1	S	24.9
Economics	24,000	100.0	2.9	0.9	S	66.3	S	0.6	0.6	S	S	S	27.9
Political/related sciences	21,000	100.0	2.1	S	S	58.4	S	1.1	S	S	S	S	37.0
Psychology	96,000	100.0	2.2	2.7	S	73.4	0.3	1.9	2.5	S	S	S	16.9
Sociology/anthropology	27,000	100.0	2.1	1.8	S	62.5	S	3.1	0.7	S	S	S	28.8
Other social sciences	18,000	100.0	8.4	1.1	2.6	37.4	1.3	3.1	1.0	0.8	S	S	43.6
Engineering	122,000	100.0	11.3	1.6	3.7	0.2	62.3	1.1	4.6	0.4	1.0	S	14.0
Aerospace/aeronautical/astronautical engineering	6,000	100.0	18.9	S	4.1	S	61.8	S	3.6	S	S	S	9.9
Chemical engineering	16,000	100.0	3.9	1.8	5.6	S	61.6	2.0	3.7	S	S	S	20.0
Civil/architectural engineering	11,000	100.0	5.1	S	2.7	S	76.2	S	4.2	S	S	S	11.6
Electrical/computer engineering	36,000	100.0	18.5	1.3	1.6	S	58.6	0.6	3.8	S	1.1	S	14.0
Industrial engineering	4,000	100.0	22.4	S	S	S	46.2	S	S	S	S	S	27.6
Mechanical engineering	15,000	100.0	7.8	S	2.0	S	71.1	S	5.2	S	S	S	11.4
Other engineering	34,000	100.0	8.1	3.2	6.2	0.3	60.0	2.0	6.0	0.7	1.5	S	12.2
S&E-related fields	59,000	100.0	5.5	15.9	1.8	3.1	1.8	35.9	2.1	1.2	1.4	S	28.2
Health	41,000	100.0	1.2	22.1	0.9	2.8	0.3	52.0	3.1	S	1.0	S	16.6
Science/mathematics teacher education	9,000	100.0	24.7	S	S	S	S	S	S	S	S	S	60.7
Technology/technical fields	3,000	100.0	23.4	S	S	S	32.4	S	S	S	S	S	S
Other S&E-related fields	7,000	100.0	S	S	S	S	S	S	S	S	S	S	60.9
Non-S&E fields	136,000	100.0	6.0	2.2	S	9.9	1.3	6.7	1.1	5.2	S	S	66.4
Arts/humanities	17,000	100.0	11.7	S	S	4.6	S	S	S	S	S	S	76.6
Education, except science/mathematics teacher education	64,000	100.0	4.5	1.1	S	10.8	S	9.1	S	7.9	S	S	63.0
Management/administration	14,000	100.0	8.8	S	S	8.6	S	S	S	S	S	S	75.5

TABLE 4. Occupational category of employed U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		S&E occupations					S&E-related occupations					Non-S&E occupations
	Number	Percent	Computer/ mathematical scientists	Biological/ agricultural/ other life scientists	Physical/ related scientists	Social/ related scientists	Engineers	Health occupations	S&E managers	S&E precollege teachers	S&E technicians and technologists	Other S&E-related jobs	
Sales/marketing	2,000	100.0	S	S	S	S	S	S	S	S	S	S	90.6
Social services/related	19,000	100.0	5.7	S	S	9.2	S	S	S	S	S	S	72.8
Other non-S&E fields	21,000	100.0	4.8	8.7	S	13.7	S	S	S	S	S	S	55.0

S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification, and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 5. Employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2003

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
All degree fields and occupations	18,021,000	10,490,000	4,979,000	885,000
S&E occupations	4,817,000	2,786,000	1,424,000	558,000
Biological/agricultural/environmental life scientists	444,000	182,000	98,000	148,000
Computer/mathematical scientists	2,008,000	1,332,000	578,000	86,000
Physical scientists	315,000	139,000	83,000	91,000
Social scientists	495,000	123,000	215,000	140,000
Engineers	1,555,000	1,010,000	450,000	93,000
S&E-related occupations	5,331,000	2,956,000	1,228,000	105,000
Health occupations	3,515,000	1,829,000	599,000	57,000
S&E managers	386,000	219,000	135,000	26,000
S&E precollege teachers	716,000	357,000	341,000	12,000
S&E technologists/technicians	500,000	401,000	89,000	8,000
Other S&E-related occupations	214,000	149,000	62,000	3,000
Non-S&E occupations	7,873,000	4,747,000	2,328,000	222,000
Art/humanities/related occupations	248,000	160,000	74,000	10,000
Management-related occupations	1,310,000	793,000	457,000	31,000
Non-S&E managers	922,000	456,000	362,000	74,000
Non-S&E postsecondary teachers	140,000	26,000	63,000	46,000
Non-S&E precollege/other teachers	600,000	304,000	283,000	8,000
Sales/marketing occupations	1,322,000	980,000	304,000	18,000
Social services/related occupations	621,000	240,000	353,000	12,000
Other non-S&E occupations	2,711,000	1,789,000	432,000	23,000
Biological/agricultural/environmental life sciences degree fields	1,481,000	1,082,000	209,000	191,000
S&E occupations	443,000	224,000	84,000	136,000
Biological/agricultural/environmental life scientists	313,000	132,000	60,000	121,000
Computer/mathematical scientists	47,000	32,000	10,000	6,000
Physical scientists	45,000	30,000	8,000	6,000
Social scientists	7,000	5,000	1,000	2,000
Engineers	31,000	25,000	4,000	2,000
S&E-related occupations	358,000	278,000	50,000	30,000
Health occupations	221,000	175,000	26,000	20,000
S&E managers	21,000	11,000	3,000	7,000
S&E precollege teachers	49,000	35,000	12,000	1,000
S&E technologists/technicians	65,000	55,000	8,000	2,000
Other S&E-related occupations	3,000	2,000	S	S
Non-S&E occupations	679,000	579,000	75,000	25,000
Art/humanities/related occupations	20,000	15,000	3,000	2,000
Management-related occupations	89,000	74,000	11,000	4,000
Non-S&E managers	60,000	43,000	7,000	10,000
Non-S&E postsecondary teachers	9,000	4,000	5,000	*
Non-S&E precollege/other teachers	36,000	30,000	6,000	*
Sales/marketing occupations	139,000	125,000	12,000	2,000
Social services/related occupations	12,000	9,000	S	*
Other non-S&E occupations	315,000	280,000	30,000	5,000
Computer/mathematical science degree fields	1,437,000	1,010,000	375,000	51,000
S&E occupations	805,000	522,000	241,000	43,000
Biological/agricultural/environmental life scientists	2,000	1,000	1,000	*
Computer/mathematical scientists	753,000	490,000	223,000	40,000
Physical scientists	2,000	2,000	S	*
Social scientists	7,000	3,000	3,000	*
Engineers	40,000	26,000	13,000	2,000
S&E-related occupations	204,000	149,000	53,000	2,000
Health occupations	7,000	5,000	1,000	*

TABLE 5. Employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2003

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
S&E managers	40,000	23,000	16,000	1,000
S&E precollege teachers	57,000	43,000	14,000	*
S&E technologists/technicians	83,000	64,000	18,000	1,000
Other S&E-related occupations	18,000	13,000	4,000	*
Non-S&E occupations	427,000	340,000	81,000	6,000
Art/humanities/related occupations	9,000	8,000	S	*
Management-related occupations	101,000	73,000	27,000	1,000
Non-S&E managers	51,000	35,000	14,000	3,000
Non-S&E postsecondary teachers	4,000	S	2,000	1,000
Non-S&E precollege/other teachers	23,000	20,000	3,000	S
Sales/marketing occupations	83,000	63,000	19,000	1,000
Social services/related occupations	10,000	8,000	1,000	S
Other non-S&E occupations	147,000	133,000	14,000	*
Physical/related science degree fields	694,000	423,000	130,000	141,000
S&E occupations	348,000	165,000	77,000	107,000
Biological/agricultural/environmental life scientists	23,000	10,000	4,000	9,000
Computer/mathematical scientists	53,000	32,000	10,000	10,000
Physical scientists	215,000	86,000	52,000	77,000
Social scientists	3,000	2,000	S	*
Engineers	56,000	36,000	10,000	10,000
S&E-related occupations	96,000	63,000	21,000	12,000
Health occupations	27,000	23,000	3,000	2,000
S&E managers	17,000	7,000	3,000	6,000
S&E precollege teachers	27,000	15,000	11,000	2,000
S&E technologists/technicians	25,000	18,000	4,000	2,000
Other S&E-related occupations	1,000	S	S	S
Non-S&E occupations	249,000	195,000	32,000	21,000
Art/humanities/related occupations	9,000	5,000	2,000	1,000
Management-related occupations	54,000	43,000	7,000	4,000
Non-S&E managers	42,000	28,000	4,000	10,000
Non-S&E postsecondary teachers	2,000	1,000	S	1,000
Non-S&E precollege/other teachers	9,000	7,000	2,000	*
Sales/marketing occupations	41,000	33,000	4,000	3,000
Social services/related occupations	4,000	4,000	S	*
Other non-S&E occupations	89,000	73,000	13,000	3,000
Social/related science degree fields	3,633,000	2,760,000	670,000	185,000
S&E occupations	489,000	193,000	151,000	132,000
Biological/agricultural/environmental life scientists	15,000	8,000	4,000	3,000
Computer/mathematical scientists	140,000	111,000	24,000	5,000
Physical scientists	5,000	2,000	2,000	1,000
Social scientists	312,000	59,000	118,000	122,000
Engineers	17,000	12,000	5,000	1,000
S&E-related occupations	258,000	201,000	49,000	7,000
Health occupations	139,000	108,000	27,000	4,000
S&E managers	26,000	17,000	6,000	3,000
S&E precollege teachers	47,000	35,000	12,000	*
S&E technologists/technicians	42,000	38,000	4,000	*
Other S&E-related occupations	4,000	4,000	S	S
Non-S&E occupations	2,886,000	2,366,000	470,000	46,000
Art/humanities/related occupations	118,000	93,000	22,000	2,000
Management-related occupations	480,000	394,000	79,000	7,000
Non-S&E managers	236,000	164,000	56,000	15,000
Non-S&E postsecondary teachers	33,000	11,000	10,000	11,000

TABLE 5. Employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2003

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
Non-S&E precollege/other teachers	199,000	156,000	41,000	1,000
Sales/marketing occupations	559,000	509,000	47,000	3,000
Social services/related occupations	313,000	189,000	120,000	3,000
Other non-S&E occupations	949,000	851,000	94,000	4,000
Engineering degree fields	2,334,000	1,677,000	535,000	122,000
S&E occupations	1,464,000	974,000	393,000	97,000
Biological/agricultural/environmental life scientists	6,000	3,000	2,000	2,000
Computer/mathematical scientists	299,000	189,000	96,000	14,000
Physical scientists	16,000	6,000	5,000	4,000
Social scientists	4,000	1,000	2,000	*
Engineers	1,139,000	775,000	288,000	76,000
S&E-related occupations	202,000	153,000	41,000	9,000
Health occupations	14,000	11,000	1,000	1,000
S&E managers	84,000	60,000	19,000	6,000
S&E precollege teachers	11,000	8,000	2,000	*
S&E technologists/technicians	75,000	61,000	13,000	1,000
Other S&E-related occupations	19,000	13,000	6,000	S
Non-S&E occupations	668,000	550,000	101,000	17,000
Art/humanities/related occupations	8,000	6,000	2,000	*
Management-related occupations	118,000	93,000	21,000	3,000
Non-S&E managers	156,000	118,000	29,000	9,000
Non-S&E postsecondary teachers	5,000	2,000	2,000	1,000
Non-S&E precollege/other teachers	8,000	6,000	2,000	*
Sales/marketing occupations	129,000	106,000	21,000	2,000
Social services/related occupations	2,000	2,000	S	*
Other non-S&E occupations	242,000	217,000	24,000	2,000
S&E-related degree fields	4,383,000	2,322,000	915,000	59,000
S&E occupations	268,000	151,000	81,000	17,000
Biological/agricultural/environmental life scientists	45,000	8,000	11,000	9,000
Computer/mathematical scientists	109,000	73,000	31,000	3,000
Physical scientists	11,000	3,000	6,000	1,000
Social scientists	23,000	6,000	14,000	2,000
Engineers	81,000	60,000	19,000	1,000
S&E-related occupations	3,152,000	1,523,000	577,000	26,000
Health occupations	2,745,000	1,276,000	427,000	21,000
S&E managers	67,000	37,000	25,000	1,000
S&E precollege teachers	148,000	70,000	76,000	1,000
S&E technologists/technicians	45,000	38,000	5,000	1,000
Other S&E-related occupations	147,000	102,000	43,000	S
Non-S&E occupations	963,000	648,000	256,000	17,000
Art/humanities/related occupations	41,000	28,000	10,000	1,000
Management-related occupations	142,000	99,000	36,000	1,000
Non-S&E managers	109,000	63,000	33,000	4,000
Non-S&E postsecondary teachers	26,000	7,000	12,000	5,000
Non-S&E precollege/other teachers	133,000	69,000	60,000	*
Sales/marketing occupations	172,000	135,000	30,000	3,000
Social services/related occupations	53,000	24,000	25,000	S
Other non-S&E occupations	288,000	221,000	51,000	2,000
Non-S&E degree fields	4,059,000	1,215,000	2,145,000	136,000
S&E occupations	998,000	558,000	397,000	27,000
Biological/agricultural/environmental life scientists	40,000	20,000	16,000	3,000
Computer/mathematical scientists	607,000	405,000	184,000	8,000
Physical scientists	21,000	10,000	9,000	S

TABLE 5. Employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2003

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
Social scientists	138,000	46,000	76,000	14,000
Engineers	192,000	77,000	112,000	2,000
S&E-related occupations	1,060,000	589,000	436,000	18,000
Health occupations	362,000	231,000	113,000	9,000
S&E managers	131,000	64,000	64,000	2,000
S&E precollege teachers	378,000	152,000	215,000	7,000
S&E technologists/technicians	166,000	127,000	37,000	S
Other S&E-related occupations	24,000	15,000	8,000	S
Non-S&E occupations	2,001,000	68,000	1,312,000	90,000
Art/humanities/related occupations	44,000	S	34,000	3,000
Management-related occupations	326,000	17,000	277,000	11,000
Non-S&E managers	267,000	4,000	219,000	24,000
Non-S&E postsecondary teachers	62,000	S	31,000	27,000
Non-S&E precollege/other teachers	192,000	15,000	170,000	6,000
Sales/marketing occupations	200,000	9,000	171,000	4,000
Social services/related occupations	228,000	5,000	204,000	9,000
Other non-S&E occupations	682,000	14,000	207,000	7,000

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification, and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 6. Employed U.S. scientists and engineers reporting one or more disabilities, by level and field of highest degree and occupational category: 2003

Level and field of highest degree and occupational category	Type of disability				
	Total with disability	Hearing	Seeing	Walking	Lifting
All levels, fields, and occupations[a]	998,000	414,000	448,000	149,000	209,000
S&E occupations	243,000	115,000	106,000	32,000	38,000
S&E-related occupations	257,000	92,000	119,000	35,000	60,000
Non-S&E occupations	498,000	208,000	222,000	82,000	110,000
Biological/agricultural/environmental life sciences degree fields	84,000	42,000	35,000	9,000	15,000
S&E occupations	20,000	12,000	8,000	2,000	3,000
S&E-related occupations	19,000	6,000	10,000	1,000	6,000
Non-S&E occupations	44,000	25,000	16,000	5,000	6,000
Computer/mathematical science degree fields	76,000	30,000	33,000	13,000	16,000
S&E occupations	37,000	15,000	16,000	6,000	6,000
S&E-related occupations	14,000	5,000	6,000	2,000	3,000
Non-S&E occupations	25,000	10,000	10,000	4,000	7,000
Physical/related science degree fields	33,000	17,000	12,000	3,000	5,000
S&E occupations	17,000	9,000	6,000	2,000	2,000
S&E-related occupations	4,000	2,000	2,000	S	1,000
Non-S&E occupations	12,000	6,000	4,000	1,000	2,000
Social/related science degree fields	233,000	85,000	105,000	46,000	59,000
S&E occupations	32,000	13,000	13,000	6,000	9,000
S&E-related occupations	15,000	5,000	6,000	2,000	4,000
Non-S&E occupations	186,000	67,000	86,000	38,000	45,000
Engineering degree fields	109,000	60,000	48,000	10,000	11,000
S&E occupations	67,000	35,000	31,000	7,000	8,000
S&E-related occupations	13,000	7,000	5,000	1,000	2,000
Non-S&E occupations	29,000	18,000	13,000	2,000	2,000
S&E-related fields	207,000	77,000	104,000	28,000	47,000
S&E occupations	13,000	6,000	7,000	2,000	2,000
S&E-related occupations	133,000	47,000	65,000	17,000	29,000
Non-S&E occupations	61,000	24,000	31,000	9,000	16,000
Non-S&E degree fields	257,000	102,000	111,000	39,000	56,000
S&E occupations	56,000	25,000	25,000	6,000	9,000
S&E-related occupations	59,000	19,000	25,000	11,000	16,000
Non-S&E occupations	141,000	58,000	61,000	23,000	31,000
Bachelor's degrees	573,000	239,000	262,000	86,000	118,000
S&E occupations	135,000	66,000	60,000	17,000	20,000
S&E-related occupations	152,000	51,000	76,000	21,000	37,000
Non-S&E occupations	286,000	123,000	126,000	47,000	61,000
Biological/agricultural/environmental life sciences degree fields	63,000	32,000	25,000	7,000	12,000
S&E occupations	10,000	6,000	4,000	1,000	1,000
S&E-related occupations	16,000	5,000	7,000	S	5,000
Non-S&E occupations	38,000	21,000	14,000	5,000	6,000
Computer/mathematical science degree fields	54,000	24,000	22,000	8,000	10,000
S&E occupations	23,000	10,000	10,000	4,000	3,000
S&E-related occupations	11,000	5,000	4,000	S	2,000
Non-S&E occupations	20,000	9,000	8,000	2,000	5,000
Physical/related science degree fields	19,000	11,000	7,000	2,000	3,000
S&E occupations	7,000	4,000	2,000	1,000	1,000
S&E-related occupations	3,000	1,000	1,000	S	S
Non-S&E occupations	10,000	6,000	3,000	S	S
Social/related science degree fields	166,000	64,000	75,000	31,000	41,000
S&E occupations	12,000	6,000	5,000	2,000	4,000

TABLE 6. Employed U.S. scientists and engineers reporting one or more disabilities, by level and field of highest degree and occupational category: 2003

Level and field of highest degree and occupational category	Type of disability				
	Total with disability	Hearing	Seeing	Walking	Lifting
S&E-related occupations	13,000	4,000	5,000	2,000	4,000
Non-S&E occupations	142,000	54,000	65,000	26,000	33,000
Engineering degree fields	74,000	43,000	34,000	6,000	6,000
S&E occupations	42,000	24,000	19,000	4,000	4,000
S&E-related occupations	9,000	6,000	4,000	S	S
Non-S&E occupations	23,000	14,000	11,000	S	S
S&E-related fields	122,000	40,000	66,000	18,000	31,000
S&E occupations	7,000	3,000	4,000	1,000	1,000
S&E-related occupations	71,000	20,000	40,000	10,000	18,000
Non-S&E occupations	44,000	18,000	22,000	7,000	12,000
Non-S&E degree fields	74,000	24,000	33,000	15,000	16,000
S&E occupations	35,000	13,000	17,000	4,000	6,000
S&E-related occupations	30,000	10,000	13,000	6,000	7,000
Non-S&E occupations	10,000	S	3,000	S	S
Master's degrees	280,000	110,000	121,000	45,000	64,000
S&E occupations	69,000	33,000	28,000	10,000	11,000
S&E-related occupations	62,000	18,000	28,000	9,000	16,000
Non-S&E occupations	149,000	58,000	66,000	27,000	37,000
Biological/agricultural/environmental life sciences degree fields	10,000	6,000	4,000	S	1,000
S&E occupations	4,000	3,000	1,000	S	*
S&E-related occupations	2,000	S	2,000	S	S
Non-S&E occupations	4,000	3,000	S	S	S
Computer/mathematical science degree fields	19,000	5,000	10,000	5,000	6,000
S&E occupations	12,000	4,000	5,000	2,000	2,000
S&E-related occupations	3,000	S	2,000	S	S
Non-S&E occupations	5,000	S	3,000	S	2,000
Physical/related science degree fields	5,000	3,000	2,000	S	1,000
S&E occupations	4,000	3,000	1,000	S	S
S&E-related occupations	1,000	S	S	S	S
Non-S&E occupations	S	S	S	S	S
Social/related science degree fields	49,000	14,000	23,000	13,000	13,000
S&E occupations	8,000	3,000	3,000	2,000	2,000
S&E-related occupations	S	S	S	S	S
Non-S&E occupations	40,000	11,000	18,000	10,000	11,000
Engineering degree fields	27,000	14,000	10,000	4,000	4,000
S&E occupations	19,000	9,000	8,000	3,000	3,000
S&E-related occupations	3,000	S	S	S	S
Non-S&E occupations	5,000	3,000	1,000	S	S
S&E-related fields	40,000	14,000	20,000	6,000	8,000
S&E occupations	5,000	2,000	3,000	S	S
S&E-related occupations	23,000	7,000	11,000	2,000	5,000
Non-S&E occupations	12,000	4,000	6,000	2,000	3,000
Non-S&E degree fields	130,000	54,000	53,000	18,000	31,000
S&E occupations	18,000	10,000	6,000	2,000	3,000
S&E-related occupations	28,000	8,000	12,000	5,000	9,000
Non-S&E occupations	83,000	36,000	35,000	11,000	20,000
Doctorate degrees	59,000	24,000	27,000	10,000	11,000
S&E occupations	36,000	15,000	17,000	5,000	7,000
S&E-related occupations	6,000	3,000	2,000	1,000	1,000
Non-S&E occupations	17,000	6,000	8,000	4,000	3,000

TABLE 6. Employed U.S. scientists and engineers reporting one or more disabilities, by level and field of highest degree and occupational category: 2003

Level and field of highest degree and occupational category	Type of disability				
	Total with disability	Hearing	Seeing	Walking	Lifting
Biological/agricultural/environmental life sciences degree fields	11,000	4,000	5,000	2,000	2,000
S&E occupations	7,000	3,000	3,000	1,000	1,000
S&E-related occupations	2,000	1,000	1,000	*	*
Non-S&E occupations	2,000	1,000	1,000	*	*
Computer/mathematical science degree fields	3,000	1,000	1,000	*	*
S&E occupations	2,000	1,000	1,000	*	*
S&E-related occupations	*	S	S	S	S
Non-S&E occupations	*	*	*	S	S
Physical/related science degree fields	8,000	4,000	3,000	1,000	1,000
S&E occupations	6,000	3,000	3,000	1,000	1,000
S&E-related occupations	1,000	*	*	S	S
Non-S&E occupations	1,000	1,000	*	*	*
Social/related science degree fields	16,000	6,000	7,000	3,000	4,000
S&E occupations	11,000	4,000	5,000	2,000	3,000
S&E-related occupations	1,000	*	*	S	*
Non-S&E occupations	4,000	1,000	2,000	1,000	1,000
Engineering degree fields	7,000	3,000	4,000	1,000	1,000
S&E occupations	6,000	2,000	3,000	1,000	1,000
S&E-related occupations	*	*	*	S	S
Non-S&E occupations	1,000	*	*	*	*
S&E-related fields	5,000	1,000	3,000	1,000	1,000
S&E occupations	1,000	*	*	S	*
S&E-related occupations	1,000	1,000	1,000	*	*
Non-S&E occupations	3,000	*	2,000	*	1,000
Non-S&E degree fields	9,000	5,000	3,000	2,000	1,000
S&E occupations	2,000	1,000	1,000	S	S
S&E-related occupations	S	S	S	S	S
Non-S&E occupations	6,000	3,000	2,000	2,000	1,000

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification, and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding and because a person may report more than one disability. The SESTAT surveys ask the degree of difficulty—none, slight, moderate, severe, unable to do—an individual has in seeing (with glasses/contact lenses), hearing (with hearing aid), walking without assistance, or lifting 10 pounds. Those respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 7. U.S. scientists and engineers, by field and level of highest degree: 2003

Field of highest degree	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
All degree fields	21,647,000	12,782,000	5,967,000	1,026,000
S&E fields	11,880,000	8,716,000	2,348,000	796,000
Sciences	9,048,000	6,666,000	1,706,000	656,000
Biological/agricultural/environmental life sciences	1,851,000	1,369,000	261,000	221,000
Agricultural/food sciences	292,000	232,000	37,000	23,000
Animal sciences	110,000	101,000	5,000	4,000
Food sciences/technology	37,000	27,000	7,000	3,000
Plant sciences	87,000	62,000	14,000	11,000
Other agricultural sciences	58,000	43,000	11,000	5,000
Biological sciences	1,374,000	998,000	185,000	191,000
Biochemistry/biophysics	124,000	69,000	15,000	40,000
Biology, general	622,000	574,000	40,000	8,000
Botany	37,000	22,000	7,000	8,000
Cell/molecular biology	63,000	27,000	12,000	24,000
Ecology	61,000	34,000	21,000	7,000
Genetics, animal/plant	23,000	7,000	6,000	9,000
Microbiological sciences/immunology	116,000	74,000	21,000	20,000
Nutritional science	50,000	34,000	13,000	3,000
Pharmacology, human/animal	22,000	6,000	5,000	10,000
Physiology/pathology/human/animal	59,000	35,000	10,000	15,000
Zoology, general	89,000	58,000	14,000	16,000
Other biological sciences	109,000	58,000	19,000	32,000
Environmental life sciences	185,000	139,000	39,000	7,000
Environmental science studies	102,000	73,000	25,000	3,000
Forestry sciences	84,000	66,000	14,000	4,000
Computer/mathematical sciences	1,703,000	1,202,000	444,000	57,000
Computer/information sciences	1,087,000	753,000	316,000	18,000
Computer/information sciences	192,000	118,000	61,000	13,000
Computer science	620,000	442,000	174,000	4,000
Computer systems analysis	35,000	22,000	13,000	S
Information services/systems	178,000	132,000	45,000	1,000
Other computer/information sciences	62,000	38,000	24,000	1,000
Mathematics/statistics	616,000	449,000	128,000	39,000
Applied mathematics	125,000	93,000	22,000	9,000
Mathematics, general	374,000	312,000	56,000	6,000
Operations research	30,000	9,000	19,000	1,000
Statistics	47,000	18,000	23,000	7,000
Other mathematics	40,000	17,000	7,000	16,000
Physical/related sciences	876,000	548,000	161,000	167,000
Chemistry, except biochemistry	421,000	275,000	59,000	86,000
Earth/atmospheric/ocean sciences	211,000	135,000	55,000	21,000
Atmospheric sciences/meteorology	23,000	13,000	6,000	3,000
Earth sciences	19,000	14,000	5,000	*
Geology	134,000	95,000	32,000	8,000
Other geological sciences	23,000	8,000	8,000	7,000
Oceanography	11,000	5,000	3,000	3,000
Physics/astronomy	187,000	93,000	40,000	55,000
Astronomy/astrophysics	10,000	2,000	3,000	5,000
Physics	177,000	90,000	37,000	50,000
Other physical sciences	57,000	46,000	7,000	4,000

TABLE 7. U.S. scientists and engineers, by field and level of highest degree: 2003

Field of highest degree	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
Social/related sciences	4,618,000	3,547,000	840,000	211,000
Economics	680,000	563,000	89,000	28,000
Agricultural economics	107,000	91,000	13,000	3,000
Economics	573,000	472,000	76,000	25,000
Political/related sciences	830,000	688,000	118,000	24,000
Public policy studies	39,000	8,000	28,000	3,000
International relations	120,000	81,000	36,000	3,000
Political science/government	671,000	599,000	54,000	18,000
Psychology	1,734,000	1,133,000	473,000	108,000
Educational psychology	143,000	49,000	90,000	4,000
Clinical psychology	160,000	56,000	54,000	39,000
Counseling psychology	309,000	77,000	217,000	12,000
Experimental psychology	47,000	33,000	5,000	9,000
Psychology, general	808,000	751,000	46,000	8,000
Industrial/organizational psychology	63,000	38,000	20,000	4,000
Social psychology	58,000	45,000	6,000	7,000
Other psychology	148,000	86,000	36,000	25,000
Sociology/anthropology	895,000	798,000	66,000	31,000
Anthropology/archeology	142,000	110,000	21,000	11,000
Criminology	76,000	69,000	6,000	1,000
Sociology	676,000	619,000	38,000	19,000
Other social sciences	479,000	364,000	94,000	21,000
Area/ethnic studies	88,000	63,000	24,000	1,000
Linguistics	35,000	20,000	10,000	5,000
Philosophy of science	29,000	26,000	2,000	1,000
Geography	117,000	96,000	17,000	5,000
History of science	25,000	21,000	3,000	1,000
Other social sciences	185,000	139,000	38,000	8,000
Engineering	2,832,000	2,050,000	642,000	140,000
Aerospace/related engineering	100,000	74,000	19,000	7,000
Chemical engineering	197,000	144,000	33,000	19,000
Civil/architectural engineering	443,000	335,000	96,000	12,000
Architectural engineering	41,000	33,000	8,000	S
Civil engineering	402,000	302,000	88,000	12,000
Electrical/computer engineering	905,000	628,000	237,000	41,000
Computer/systems engineering	174,000	104,000	66,000	5,000
Other electrical/related engineering	731,000	524,000	171,000	36,000
Industrial engineering	181,000	137,000	40,000	4,000
Mechanical engineering	597,000	480,000	100,000	17,000
Other engineering	407,000	251,000	117,000	40,000
Agricultural engineering	28,000	22,000	3,000	2,000
Bioengineering/biomedical engineering	23,000	9,000	10,000	4,000
Engineering science, mechanical/physics	40,000	24,000	9,000	7,000
Environmental engineering	42,000	16,000	24,000	2,000
Engineering, general	51,000	41,000	9,000	1,000
Geophysical/geological engineering	8,000	5,000	2,000	*
Materials engineering	44,000	22,000	12,000	10,000
Metallurgical engineering	26,000	17,000	5,000	4,000
Mining/minerals engineering	19,000	14,000	4,000	1,000
Naval architecture/marine engineering	16,000	15,000	2,000	S

TABLE 7. U.S. scientists and engineers, by field and level of highest degree: 2003

Field of highest degree	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
Nuclear engineering	13,000	6,000	5,000	3,000
Petroleum engineering	25,000	21,000	3,000	*
Other engineering	73,000	38,000	29,000	6,000
S&E-related fields	5,203,000	2,828,000	1,088,000	69,000
Health	3,998,000	1,994,000	740,000	46,000
Audiology/speech pathology	194,000	58,000	130,000	4,000
Health services administration	173,000	71,000	100,000	1,000
Health/medical assistants	6,000	5,000	S	S
Health/medical technologies	135,000	123,000	10,000	1,000
Medical preparatory programs	42,000	40,000	1,000	S
Medicine	1,252,000	57,000	22,000	13,000
Nursing	1,203,000	1,004,000	194,000	6,000
Pharmacy	263,000	197,000	10,000	5,000
Physical therapy/other rehabilitation/therapeutic services	339,000	223,000	112,000	1,000
Public health	121,000	41,000	72,000	8,000
Other health/medical sciences	270,000	174,000	88,000	6,000
Science/mathematics teacher education	439,000	237,000	189,000	12,000
Computer teacher education	39,000	6,000	32,000	S
Mathematics teacher education	145,000	79,000	61,000	4,000
Science teacher education	130,000	63,000	61,000	6,000
Social science teacher education	125,000	89,000	35,000	1,000
Technology/technical fields	397,000	336,000	58,000	4,000
Computer programming	67,000	55,000	11,000	S
Data processing	8,000	8,000	S	S
Electrical/electronic technologies	68,000	59,000	8,000	1,000
Industrial production technologies	116,000	102,000	13,000	S
Mechanical engineering-related technologies	51,000	44,000	6,000	1,000
Other engineering-related technologies	87,000	66,000	19,000	1,000
Other S&E-related fields	369,000	260,000	102,000	7,000
Architecture/environmental design	357,000	249,000	101,000	7,000
Actuarial science	12,000	11,000	1,000	S
Non-S&E fields	4,564,000	1,238,000	2,530,000	160,000
Arts/humanities	390,000	257,000	113,000	20,000
Education, except science/mathematics teacher education	1,044,000	221,000	743,000	76,000
Management/administration	1,522,000	478,000	1,025,000	17,000
Sales/marketing	160,000	54,000	104,000	2,000
Social services/related	357,000	42,000	283,000	19,000
Other non-S&E fields	1,092,000	187,000	262,000	26,000

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
All degree levels and fields[a]	21,647,000	18,021,000	15,978,000	2,043,000	595,000	3,031,000	1,613,000	1,419,000
Male	12,129,000	10,437,000	9,847,000	590,000	340,000	1,352,000	1,086,000	266,000
Female	9,518,000	7,585,000	6,131,000	1,453,000	255,000	1,679,000	526,000	1,152,000
S&E fields	11,880,000	9,579,000	8,610,000	969,000	414,000	1,886,000	973,000	913,000
Male	7,330,000	6,153,000	5,818,000	335,000	248,000	929,000	720,000	209,000
Female	4,549,000	3,426,000	2,792,000	633,000	166,000	958,000	253,000	704,000
Sciences	9,048,000	7,245,000	6,404,000	842,000	308,000	1,494,000	667,000	828,000
Male	4,834,000	4,090,000	3,846,000	244,000	158,000	587,000	420,000	167,000
Female	4,214,000	3,156,000	2,558,000	598,000	150,000	908,000	247,000	661,000
Biological/agricultural/environmental life sciences	1,851,000	1,481,000	1,331,000	150,000	50,000	320,000	132,000	188,000
Male	1,007,000	843,000	797,000	46,000	22,000	142,000	88,000	54,000
Female	844,000	638,000	534,000	104,000	28,000	178,000	44,000	134,000
Agricultural/food sciences	292,000	249,000	230,000	19,000	6,000	36,000	24,000	12,000
Male	191,000	164,000	157,000	7,000	1,000	26,000	22,000	4,000
Female	101,000	85,000	74,000	12,000	5,000	10,000	2,000	8,000
Biological sciences	1,374,000	1,081,000	959,000	122,000	38,000	256,000	90,000	166,000
Male	687,000	573,000	537,000	35,000	17,000	97,000	51,000	46,000
Female	687,000	508,000	422,000	86,000	20,000	158,000	39,000	119,000
Environmental life sciences	185,000	151,000	142,000	9,000	6,000	28,000	18,000	10,000
Male	129,000	107,000	104,000	3,000	4,000	19,000	15,000	4,000
Female	56,000	44,000	38,000	6,000	2,000	9,000	S	6,000
Computer/mathematical sciences	1,703,000	1,437,000	1,318,000	119,000	75,000	191,000	83,000	108,000
Male	1,100,000	967,000	930,000	37,000	48,000	85,000	60,000	25,000
Female	603,000	470,000	388,000	82,000	27,000	106,000	23,000	84,000
Computer/information sciences	1,087,000	961,000	899,000	62,000	53,000	73,000	14,000	59,000
Male	728,000	671,000	653,000	18,000	34,000	24,000	10,000	13,000
Female	359,000	290,000	246,000	44,000	19,000	49,000	4,000	45,000
Mathematical sciences	616,000	476,000	420,000	56,000	22,000	119,000	69,000	50,000
Male	372,000	296,000	278,000	18,000	14,000	62,000	50,000	12,000
Female	244,000	180,000	142,000	38,000	7,000	57,000	19,000	38,000
Physical/related sciences	876,000	694,000	631,000	63,000	27,000	155,000	106,000	50,000
Male	637,000	513,000	480,000	33,000	19,000	105,000	89,000	16,000
Female	239,000	181,000	151,000	30,000	7,000	50,000	16,000	34,000
Chemistry, except biochemistry	421,000	326,000	295,000	31,000	11,000	83,000	50,000	34,000
Male	277,000	219,000	205,000	14,000	7,000	51,000	42,000	9,000
Female	144,000	107,000	90,000	17,000	4,000	33,000	8,000	25,000

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Earth/atmospheric/ocean sciences	211,000	170,000	154,000	16,000	6,000	35,000	26,000	9,000
Male	167,000	136,000	128,000	8,000	5,000	27,000	23,000	4,000
Female	43,000	35,000	27,000	8,000	1,000	8,000	3,000	5,000
Physics/astronomy	187,000	152,000	137,000	15,000	7,000	28,000	22,000	5,000
Male	160,000	130,000	119,000	11,000	7,000	23,000	21,000	2,000
Female	27,000	22,000	18,000	4,000	1,000	5,000	2,000	3,000
Other physical sciences	57,000	45,000	44,000	2,000	2,000	9,000	8,000	2,000
Male	33,000	28,000	28,000	*	S	4,000	3,000	*
Female	24,000	17,000	16,000	2,000	S	6,000	S	1,000
Social/related sciences	4,618,000	3,633,000	3,124,000	510,000	157,000	828,000	346,000	482,000
Male	2,090,000	1,766,000	1,638,000	128,000	69,000	254,000	183,000	72,000
Female	2,528,000	1,867,000	1,486,000	381,000	88,000	573,000	163,000	410,000
Economics	680,000	551,000	498,000	53,000	25,000	104,000	58,000	46,000
Male	493,000	418,000	397,000	22,000	14,000	61,000	47,000	14,000
Female	187,000	133,000	101,000	31,000	11,000	44,000	12,000	32,000
Political/related sciences	830,000	666,000	598,000	67,000	34,000	130,000	59,000	71,000
Male	503,000	421,000	395,000	26,000	19,000	63,000	42,000	21,000
Female	327,000	244,000	203,000	41,000	15,000	67,000	17,000	50,000
Psychology	1,734,000	1,335,000	1,096,000	239,000	55,000	343,000	131,000	212,000
Male	534,000	445,000	396,000	49,000	17,000	73,000	53,000	19,000
Female	1,200,000	891,000	700,000	191,000	39,000	271,000	78,000	193,000
Sociology/anthropology	895,000	684,000	586,000	98,000	32,000	180,000	65,000	115,000
Male	326,000	278,000	260,000	18,000	13,000	36,000	23,000	12,000
Female	569,000	406,000	326,000	80,000	19,000	144,000	41,000	103,000
Other social sciences	479,000	398,000	346,000	52,000	11,000	70,000	33,000	37,000
Male	233,000	204,000	191,000	14,000	6,000	22,000	17,000	5,000
Female	246,000	193,000	155,000	38,000	5,000	48,000	15,000	33,000
Engineering	2,832,000	2,334,000	2,207,000	127,000	106,000	392,000	307,000	85,000
Male	2,496,000	2,064,000	1,973,000	91,000	90,000	342,000	300,000	42,000
Female	336,000	270,000	234,000	36,000	16,000	50,000	7,000	43,000
Aerospace/related engineering	100,000	85,000	81,000	4,000	2,000	13,000	12,000	1,000
Male	92,000	77,000	74,000	4,000	2,000	12,000	12,000	*
Female	9,000	8,000	7,000	1,000	S	1,000	S	*
Chemical engineering	197,000	159,000	151,000	9,000	5,000	32,000	24,000	9,000
Male	156,000	126,000	121,000	5,000	4,000	26,000	23,000	3,000
Female	41,000	34,000	30,000	4,000	1,000	6,000	1,000	5,000

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Civil/architectural engineering	443,000	385,000	363,000	22,000	12,000	46,000	38,000	8,000
Male	393,000	342,000	326,000	16,000	10,000	41,000	36,000	5,000
Female	51,000	43,000	38,000	6,000	2,000	5,000	2,000	3,000
Electrical/computer engineering	905,000	748,000	711,000	37,000	42,000	114,000	86,000	28,000
Male	806,000	668,000	641,000	27,000	37,000	101,000	85,000	16,000
Female	100,000	81,000	71,000	10,000	6,000	13,000	1,000	12,000
Industrial engineering	181,000	134,000	129,000	5,000	10,000	38,000	29,000	10,000
Male	151,000	111,000	108,000	3,000	8,000	32,000	29,000	3,000
Female	31,000	23,000	21,000	2,000	1,000	7,000	S	7,000
Mechanical engineering	597,000	492,000	464,000	28,000	21,000	84,000	73,000	11,000
Male	551,000	455,000	434,000	21,000	18,000	78,000	72,000	6,000
Female	46,000	37,000	30,000	7,000	3,000	6,000	1,000	5,000
Other engineering	407,000	330,000	307,000	23,000	13,000	64,000	45,000	19,000
Male	348,000	286,000	270,000	16,000	10,000	52,000	43,000	9,000
Female	59,000	44,000	37,000	7,000	3,000	12,000	2,000	10,000
S&E-related fields	5,203,000	4,383,000	3,679,000	704,000	84,000	736,000	386,000	351,000
Male	2,191,000	1,921,000	1,794,000	127,000	35,000	235,000	200,000	35,000
Female	3,012,000	2,462,000	1,885,000	577,000	49,000	501,000	185,000	316,000
Health	3,998,000	3,373,000	2,771,000	602,000	53,000	572,000	270,000	302,000
Male	1,380,000	1,226,000	1,141,000	84,000	13,000	141,000	118,000	23,000
Female	2,619,000	2,148,000	1,630,000	518,000	39,000	431,000	152,000	279,000
Science/mathematics teacher education	439,000	340,000	288,000	52,000	9,000	90,000	72,000	19,000
Male	199,000	151,000	134,000	17,000	4,000	44,000	44,000	S
Female	240,000	189,000	154,000	35,000	5,000	46,000	28,000	18,000
Technology/technical fields	397,000	334,000	315,000	18,000	17,000	46,000	30,000	16,000
Male	342,000	292,000	281,000	11,000	15,000	36,000	28,000	8,000
Female	55,000	42,000	34,000	8,000	3,000	10,000	3,000	8,000
Other S&E-related fields	369,000	336,000	305,000	31,000	5,000	28,000	13,000	15,000
Male	271,000	253,000	238,000	15,000	3,000	14,000	11,000	3,000
Female	99,000	83,000	67,000	16,000	2,000	14,000	2,000	11,000
Non-S&E fields	4,564,000	4,059,000	3,689,000	370,000	97,000	409,000	254,000	155,000
Male	2,608,000	2,362,000	2,234,000	128,000	57,000	189,000	166,000	22,000
Female	1,956,000	1,697,000	1,454,000	242,000	40,000	220,000	88,000	132,000
Arts/humanities	390,000	366,000	315,000	51,000	5,000	19,000	12,000	7,000
Male	206,000	196,000	182,000	14,000	S	9,000	7,000	2,000
Female	183,000	169,000	133,000	37,000	4,000	10,000	5,000	5,000

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Education, except science/mathematics teacher education	1,044,000	890,000	812,000	78,000	12,000	142,000	102,000	40,000
Male	433,000	365,000	340,000	25,000	6,000	63,000	58,000	5,000
Female	611,000	525,000	472,000	53,000	6,000	79,000	45,000	35,000
Management/administration	1,522,000	1,367,000	1,281,000	86,000	42,000	114,000	68,000	46,000
Male	1,080,000	986,000	947,000	39,000	30,000	64,000	56,000	7,000
Female	442,000	380,000	333,000	47,000	11,000	50,000	11,000	39,000
Sales/marketing	160,000	144,000	131,000	14,000	6,000	10,000	4,000	6,000
Male	100,000	93,000	90,000	3,000	4,000	3,000	3,000	S
Female	60,000	52,000	40,000	11,000	1,000	7,000	S	6,000
Social services/related	357,000	317,000	267,000	50,000	6,000	34,000	17,000	17,000
Male	159,000	141,000	129,000	12,000	S	16,000	13,000	4,000
Female	198,000	176,000	138,000	38,000	5,000	18,000	4,000	14,000
Other non-S&E fields	1,092,000	975,000	883,000	92,000	27,000	90,000	52,000	38,000
Male	629,000	581,000	546,000	35,000	14,000	34,000	30,000	4,000
Female	462,000	394,000	338,000	57,000	13,000	56,000	21,000	34,000
Bachelor's degrees	12,782,000	10,490,000	9,259,000	1,231,000	368,000	1,924,000	897,000	1,027,000
Male	6,909,000	5,912,000	5,625,000	287,000	210,000	788,000	592,000	195,000
Female	5,872,000	4,578,000	3,633,000	944,000	159,000	1,136,000	304,000	832,000
S&E fields	8,716,000	6,953,000	6,269,000	684,000	317,000	1,447,000	689,000	758,000
Male	5,287,000	4,424,000	4,209,000	215,000	186,000	677,000	509,000	169,000
Female	3,429,000	2,529,000	2,060,000	469,000	131,000	769,000	180,000	589,000
Sciences	6,666,000	5,276,000	4,677,000	599,000	239,000	1,152,000	451,000	701,000
Male	3,471,000	2,936,000	2,779,000	157,000	120,000	416,000	277,000	139,000
Female	3,195,000	2,340,000	1,898,000	442,000	119,000	736,000	174,000	562,000
Biological/agricultural/environmental life sciences	1,369,000	1,082,000	967,000	115,000	39,000	249,000	85,000	164,000
Male	721,000	601,000	568,000	33,000	17,000	103,000	55,000	48,000
Female	648,000	481,000	399,000	82,000	22,000	145,000	30,000	115,000
Agricultural/food sciences	232,000	199,000	183,000	15,000	5,000	28,000	17,000	11,000
Male	150,000	130,000	125,000	5,000	S	19,000	15,000	4,000
Female	82,000	69,000	58,000	10,000	5,000	9,000	S	7,000
Biological sciences	998,000	767,000	675,000	93,000	28,000	202,000	58,000	144,000
Male	474,000	389,000	364,000	25,000	13,000	72,000	30,000	42,000
Female	524,000	378,000	311,000	67,000	16,000	130,000	28,000	102,000
Environmental life sciences	139,000	116,000	109,000	6,000	5,000	18,000	10,000	9,000
Male	98,000	82,000	80,000	2,000	3,000	13,000	10,000	3,000

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Female	41,000	34,000	30,000	4,000	2,000	6,000	S	6,000
Computer/mathematical sciences	1,202,000	1,010,000	927,000	83,000	49,000	143,000	55,000	88,000
Male	758,000	670,000	649,000	22,000	32,000	56,000	37,000	19,000
Female	444,000	340,000	279,000	61,000	17,000	86,000	18,000	69,000
Computer/information sciences	753,000	667,000	623,000	44,000	34,000	52,000	7,000	45,000
Male	498,000	460,000	449,000	11,000	23,000	15,000	5,000	10,000
Female	255,000	207,000	175,000	33,000	11,000	37,000	2,000	34,000
Mathematical sciences	449,000	343,000	304,000	39,000	15,000	91,000	48,000	43,000
Male	260,000	210,000	200,000	10,000	9,000	41,000	32,000	9,000
Female	189,000	133,000	104,000	29,000	6,000	50,000	16,000	34,000
Physical/related sciences	548,000	423,000	387,000	36,000	17,000	107,000	68,000	39,000
Male	378,000	299,000	282,000	17,000	12,000	67,000	55,000	12,000
Female	170,000	125,000	106,000	19,000	5,000	40,000	13,000	27,000
Chemistry, except biochemistry	275,000	209,000	188,000	21,000	7,000	59,000	31,000	29,000
Male	168,000	133,000	124,000	9,000	4,000	32,000	25,000	7,000
Female	107,000	76,000	65,000	12,000	3,000	28,000	6,000	22,000
Earth/atmospheric/ocean sciences	135,000	105,000	98,000	7,000	5,000	25,000	19,000	6,000
Male	109,000	85,000	81,000	3,000	4,000	20,000	16,000	3,000
Female	26,000	20,000	16,000	4,000	1,000	5,000	S	3,000
Physics/astronomy	93,000	73,000	66,000	7,000	4,000	16,000	13,000	3,000
Male	76,000	59,000	55,000	5,000	3,000	14,000	12,000	2,000
Female	16,000	14,000	11,000	3,000	*	2,000	S	1,000
Other physical sciences	46,000	36,000	36,000	1,000	S	7,000	6,000	1,000
Male	25,000	22,000	22,000	S	S	2,000	S	S
Female	21,000	15,000	14,000	1,000	S	5,000	S	1,000
Social/related sciences	3,547,000	2,760,000	2,395,000	365,000	134,000	653,000	242,000	411,000
Male	1,614,000	1,366,000	1,280,000	85,000	59,000	189,000	129,000	60,000
Female	1,933,000	1,395,000	1,114,000	280,000	75,000	464,000	113,000	351,000
Economics	563,000	455,000	413,000	43,000	23,000	84,000	43,000	42,000
Male	406,000	346,000	330,000	15,000	13,000	47,000	35,000	12,000
Female	157,000	109,000	82,000	27,000	11,000	37,000	7,000	30,000
Political/related sciences	688,000	548,000	492,000	56,000	30,000	109,000	46,000	64,000
Male	413,000	347,000	325,000	22,000	16,000	50,000	31,000	18,000
Female	275,000	201,000	167,000	34,000	14,000	60,000	14,000	45,000
Psychology	1,133,000	849,000	703,000	146,000	43,000	242,000	77,000	165,000
Male	335,000	274,000	249,000	26,000	13,000	47,000	33,000	14,000

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Female	798,000	574,000	454,000	120,000	30,000	195,000	44,000	151,000
Sociology/anthropology	798,000	605,000	522,000	83,000	29,000	164,000	55,000	109,000
Male	283,000	243,000	228,000	15,000	11,000	29,000	18,000	11,000
Female	516,000	362,000	294,000	68,000	18,000	136,000	37,000	98,000
Other social sciences	364,000	303,000	265,000	38,000	8,000	53,000	22,000	31,000
Male	177,000	156,000	148,000	8,000	5,000	16,000	12,000	4,000
Female	187,000	147,000	117,000	30,000	3,000	37,000	10,000	27,000
Engineering	2,050,000	1,677,000	1,592,000	85,000	78,000	295,000	238,000	57,000
Male	1,816,000	1,488,000	1,430,000	58,000	66,000	261,000	232,000	29,000
Female	234,000	189,000	162,000	26,000	12,000	33,000	6,000	28,000
Aerospace/related engineering	74,000	64,000	61,000	3,000	2,000	9,000	8,000	*
Male	68,000	57,000	55,000	3,000	2,000	8,000	8,000	S
Female	7,000	7,000	6,000	*	S	S	S	S
Chemical engineering	144,000	116,000	110,000	6,000	4,000	24,000	18,000	6,000
Male	112,000	90,000	87,000	2,000	3,000	19,000	17,000	2,000
Female	32,000	26,000	23,000	3,000	1,000	5,000	S	4,000
Civil/architectural engineering	335,000	288,000	276,000	12,000	10,000	37,000	30,000	7,000
Male	299,000	258,000	248,000	10,000	8,000	33,000	29,000	4,000
Female	36,000	30,000	28,000	3,000	2,000	4,000	S	3,000
Electrical/computer engineering	628,000	518,000	494,000	24,000	31,000	78,000	60,000	18,000
Male	565,000	466,000	450,000	16,000	27,000	72,000	60,000	12,000
Female	63,000	53,000	45,000	8,000	4,000	7,000	S	6,000
Industrial engineering	137,000	101,000	97,000	4,000	7,000	30,000	23,000	7,000
Male	114,000	83,000	81,000	2,000	6,000	25,000	23,000	2,000
Female	23,000	17,000	16,000	1,000	1,000	5,000	S	5,000
Mechanical engineering	480,000	393,000	370,000	22,000	17,000	70,000	63,000	7,000
Male	442,000	362,000	346,000	16,000	15,000	65,000	62,000	4,000
Female	38,000	31,000	25,000	6,000	2,000	4,000	S	3,000
Other engineering	251,000	197,000	184,000	13,000	7,000	46,000	35,000	12,000
Male	216,000	172,000	164,000	9,000	5,000	39,000	33,000	5,000
Female	34,000	25,000	20,000	5,000	2,000	8,000	S	6,000
S&E-related fields	2,828,000	2,322,000	1,890,000	432,000	48,000	458,000	200,000	258,000
Male	946,000	824,000	777,000	48,000	22,000	100,000	78,000	22,000
Female	1,882,000	1,498,000	1,114,000	384,000	26,000	358,000	122,000	236,000
Health	1,994,000	1,621,000	1,254,000	367,000	24,000	350,000	131,000	219,000
Male	355,000	313,000	291,000	22,000	3,000	38,000	27,000	11,000

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Female	1,640,000	1,308,000	963,000	345,000	21,000	311,000	103,000	208,000
Science/mathematics teacher education	237,000	185,000	158,000	27,000	5,000	48,000	35,000	12,000
Male	108,000	85,000	78,000	7,000	2,000	20,000	20,000	S
Female	129,000	99,000	80,000	20,000	S	27,000	15,000	12,000
Technology/technical fields	336,000	282,000	266,000	16,000	16,000	38,000	26,000	12,000
Male	292,000	248,000	239,000	9,000	13,000	30,000	23,000	7,000
Female	43,000	33,000	27,000	7,000	2,000	8,000	S	5,000
Other S&E-related fields	260,000	235,000	212,000	22,000	3,000	22,000	9,000	14,000
Male	191,000	177,000	168,000	10,000	3,000	11,000	8,000	3,000
Female	69,000	57,000	44,000	13,000	S	11,000	S	10,000
Non-S&E fields	1,238,000	1,215,000	1,100,000	115,000	4,000	19,000	8,000	12,000
Male	677,000	664,000	640,000	24,000	S	10,000	5,000	5,000
Female	562,000	551,000	460,000	91,000	S	9,000	S	7,000
Arts and humanities	257,000	252,000	223,000	29,000	S	4,000	S	3,000
Male	141,000	139,000	135,000	4,000	S	S	S	S
Female	116,000	114,000	89,000	25,000	S	S	S	S
Education, except science/mathematics teacher education	221,000	217,000	200,000	17,000	S	4,000	S	S
Male	79,000	77,000	74,000	3,000	S	S	S	S
Female	142,000	140,000	125,000	15,000	S	S	S	S
Management/administration	478,000	468,000	436,000	32,000	S	7,000	4,000	3,000
Male	320,000	315,000	305,000	10,000	S	4,000	3,000	S
Female	158,000	153,000	131,000	22,000	S	4,000	S	S
Sales/marketing	54,000	53,000	49,000	4,000	S	S	S	S
Male	28,000	27,000	27,000	S	S	S	S	S
Female	26,000	26,000	21,000	4,000	S	S	S	S
Social services/related	42,000	40,000	33,000	6,000	S	S	S	S
Male	24,000	22,000	20,000	S	S	S	S	S
Female	18,000	18,000	13,000	4,000	S	S	S	S
Other non-S&E fields	187,000	185,000	159,000	25,000	S	2,000	S	S
Male	85,000	84,000	79,000	5,000	S	S	S	S
Female	102,000	101,000	80,000	20,000	S	S	S	S
Master's degrees	5,967,000	4,979,000	4,411,000	568,000	173,000	814,000	501,000	313,000
Male	3,222,000	2,756,000	2,572,000	184,000	99,000	366,000	317,000	50,000
Female	2,745,000	2,223,000	1,839,000	384,000	74,000	448,000	185,000	263,000
S&E fields	2,348,000	1,919,000	1,704,000	215,000	79,000	350,000	215,000	135,000

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Male	1,446,000	1,211,000	1,130,000	81,000	49,000	186,000	152,000	34,000
Female	902,000	708,000	574,000	134,000	30,000	164,000	63,000	101,000
Sciences	1,706,000	1,384,000	1,204,000	180,000	55,000	267,000	158,000	109,000
Male	895,000	748,000	693,000	55,000	29,000	118,000	96,000	23,000
Female	811,000	637,000	511,000	125,000	26,000	149,000	62,000	86,000
Biological/agricultural/environmental life sciences	261,000	209,000	186,000	23,000	5,000	46,000	28,000	18,000
Male	135,000	111,000	105,000	6,000	2,000	23,000	18,000	4,000
Female	125,000	98,000	81,000	17,000	3,000	24,000	10,000	14,000
Agricultural/food sciences	37,000	31,000	29,000	2,000	S	5,000	4,000	1,000
Male	23,000	18,000	17,000	1,000	S	4,000	4,000	S
Female	14,000	13,000	12,000	1,000	S	1,000	S	*
Biological sciences	185,000	148,000	130,000	18,000	4,000	33,000	17,000	16,000
Male	87,000	72,000	68,000	4,000	2,000	13,000	10,000	3,000
Female	98,000	75,000	62,000	14,000	2,000	20,000	7,000	13,000
Environmental life sciences	39,000	30,000	27,000	2,000	S	9,000	7,000	2,000
Male	26,000	20,000	20,000	S	S	5,000	4,000	1,000
Female	13,000	10,000	8,000	2,000	S	3,000	S	*
Computer/mathematical sciences	444,000	375,000	343,000	32,000	25,000	44,000	24,000	20,000
Male	295,000	255,000	243,000	12,000	15,000	25,000	20,000	5,000
Female	149,000	120,000	101,000	20,000	10,000	19,000	4,000	14,000
Computer/information sciences	316,000	277,000	259,000	18,000	19,000	21,000	7,000	14,000
Male	215,000	196,000	190,000	6,000	10,000	8,000	5,000	3,000
Female	101,000	80,000	69,000	11,000	9,000	12,000	2,000	11,000
Mathematical sciences	128,000	98,000	84,000	15,000	6,000	23,000	17,000	6,000
Male	80,000	58,000	53,000	6,000	5,000	17,000	14,000	2,000
Female	48,000	40,000	31,000	9,000	1,000	7,000	3,000	4,000
Physical/related sciences	161,000	130,000	112,000	18,000	5,000	26,000	18,000	7,000
Male	117,000	94,000	85,000	9,000	4,000	19,000	16,000	3,000
Female	44,000	35,000	26,000	9,000	1,000	7,000	2,000	5,000
Chemistry, except biochemistry	59,000	46,000	40,000	6,000	2,000	11,000	8,000	3,000
Male	38,000	28,000	26,000	2,000	1,000	9,000	7,000	1,000
Female	22,000	18,000	14,000	4,000	1,000	3,000	1,000	2,000
Earth/atmospheric/ocean sciences	55,000	47,000	40,000	7,000	1,000	7,000	5,000	2,000
Male	41,000	36,000	32,000	4,000	S	4,000	4,000	1,000
Female	14,000	11,000	8,000	3,000	1,000	3,000	S	2,000
Physics/astronomy	40,000	31,000	27,000	4,000	2,000	6,000	4,000	2,000

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Male	34,000	27,000	24,000	4,000	2,000	4,000	4,000	1,000
Female	6,000	4,000	3,000	*	S	2,000	S	S
Other physical sciences	7,000	5,000	4,000	S	S	S	S	S
Male	4,000	3,000	3,000	S	S	S	S	S
Female	2,000	2,000	1,000	S	S	S	S	S
Social/related sciences	840,000	670,000	563,000	107,000	19,000	151,000	88,000	63,000
Male	347,000	288,000	260,000	28,000	7,000	52,000	42,000	10,000
Female	493,000	383,000	303,000	80,000	12,000	99,000	46,000	53,000
Economics	89,000	72,000	64,000	8,000	1,000	16,000	13,000	3,000
Male	65,000	53,000	48,000	5,000	1,000	11,000	9,000	2,000
Female	25,000	19,000	16,000	3,000	S	6,000	4,000	2,000
Political/related sciences	118,000	97,000	88,000	8,000	4,000	18,000	11,000	6,000
Male	72,000	59,000	57,000	2,000	2,000	11,000	9,000	2,000
Female	46,000	38,000	31,000	6,000	1,000	7,000	3,000	4,000
Psychology	473,000	373,000	305,000	68,000	10,000	90,000	47,000	43,000
Male	139,000	117,000	102,000	15,000	2,000	21,000	16,000	5,000
Female	334,000	256,000	203,000	53,000	8,000	70,000	31,000	38,000
Sociology/anthropology	66,000	52,000	41,000	11,000	2,000	12,000	7,000	5,000
Male	28,000	21,000	20,000	2,000	1,000	5,000	3,000	1,000
Female	38,000	31,000	21,000	10,000	S	7,000	3,000	4,000
Other social sciences	94,000	77,000	65,000	12,000	3,000	15,000	9,000	6,000
Male	43,000	37,000	33,000	5,000	1,000	5,000	5,000	*
Female	51,000	39,000	32,000	7,000	2,000	9,000	4,000	5,000
Engineering	642,000	535,000	500,000	35,000	24,000	83,000	57,000	26,000
Male	552,000	464,000	437,000	26,000	20,000	68,000	57,000	11,000
Female	91,000	71,000	62,000	9,000	4,000	16,000	1,000	15,000
Aerospace/related engineering	19,000	15,000	15,000	1,000	S	3,000	3,000	*
Male	18,000	14,000	14,000	*	S	3,000	3,000	S
Female	1,000	1,000	1,000	*	S	S	S	S
Chemical engineering	33,000	27,000	26,000	1,000	1,000	6,000	3,000	2,000
Male	26,000	21,000	20,000	1,000	*	5,000	3,000	1,000
Female	7,000	6,000	6,000	S	S	1,000	S	1,000
Civil/architectural engineering	96,000	86,000	77,000	9,000	2,000	8,000	7,000	1,000
Male	83,000	74,000	68,000	6,000	2,000	7,000	6,000	S
Female	13,000	12,000	9,000	3,000	S	1,000	S	1,000
Electrical/computer engineering	237,000	194,000	183,000	11,000	9,000	33,000	24,000	9,000

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Male	203,000	169,000	159,000	9,000	8,000	27,000	23,000	3,000
Female	34,000	26,000	24,000	2,000	2,000	6,000	S	6,000
Industrial engineering	40,000	29,000	28,000	1,000	3,000	8,000	6,000	3,000
Male	33,000	24,000	24,000	*	2,000	7,000	6,000	1,000
Female	7,000	5,000	5,000	*	*	2,000	S	2,000
Mechanical engineering	100,000	84,000	79,000	4,000	3,000	13,000	9,000	4,000
Male	93,000	79,000	75,000	4,000	3,000	11,000	9,000	2,000
Female	7,000	5,000	5,000	1,000	S	2,000	S	2,000
Other engineering	117,000	99,000	91,000	7,000	5,000	13,000	6,000	7,000
Male	96,000	83,000	78,000	5,000	4,000	9,000	6,000	3,000
Female	21,000	16,000	14,000	2,000	1,000	4,000	S	4,000
S&E-related fields	1,088,000	915,000	762,000	153,000	24,000	149,000	88,000	62,000
Male	349,000	301,000	277,000	25,000	8,000	40,000	37,000	2,000
Female	739,000	613,000	485,000	128,000	17,000	110,000	50,000	59,000
Health	740,000	624,000	507,000	118,000	17,000	98,000	46,000	52,000
Male	146,000	130,000	121,000	9,000	4,000	12,000	10,000	2,000
Female	593,000	494,000	386,000	109,000	13,000	86,000	36,000	50,000
Science/mathematics teacher education	189,000	147,000	122,000	25,000	4,000	39,000	33,000	6,000
Male	83,000	61,000	52,000	9,000	S	21,000	20,000	S
Female	106,000	85,000	70,000	15,000	2,000	18,000	12,000	6,000
Technology/technical fields	58,000	49,000	47,000	2,000	2,000	7,000	4,000	3,000
Male	46,000	40,000	39,000	1,000	1,000	4,000	4,000	S
Female	12,000	9,000	8,000	S	S	3,000	S	2,000
Other S&E-related fields	102,000	95,000	87,000	8,000	2,000	5,000	4,000	S
Male	73,000	70,000	65,000	5,000	S	3,000	3,000	S
Female	28,000	25,000	22,000	3,000	S	2,000	S	S
Non-S&E fields	2,530,000	2,145,000	1,946,000	200,000	70,000	314,000	198,000	116,000
Male	1,426,000	1,243,000	1,166,000	78,000	43,000	140,000	127,000	13,000
Female	1,104,000	902,000	780,000	122,000	28,000	174,000	71,000	103,000
Arts/humanities	113,000	97,000	77,000	20,000	4,000	12,000	9,000	4,000
Male	53,000	48,000	38,000	10,000	S	5,000	4,000	S
Female	60,000	49,000	39,000	10,000	3,000	8,000	4,000	3,000
Education, except science/mathematics teacher education	743,000	606,000	553,000	54,000	10,000	127,000	92,000	35,000
Male	310,000	251,000	232,000	20,000	5,000	54,000	51,000	3,000
Female	433,000	355,000	321,000	34,000	5,000	73,000	41,000	32,000

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Management/administration	1,025,000	882,000	830,000	52,000	38,000	104,000	61,000	43,000
Male	744,000	657,000	629,000	28,000	29,000	59,000	52,000	7,000
Female	280,000	225,000	201,000	24,000	10,000	45,000	9,000	36,000
Sales/marketing	104,000	90,000	80,000	10,000	5,000	10,000	4,000	6,000
Male	71,000	64,000	62,000	3,000	4,000	3,000	3,000	S
Female	33,000	25,000	18,000	7,000	1,000	7,000	S	6,000
Social services/related	283,000	248,000	207,000	41,000	6,000	29,000	13,000	16,000
Male	110,000	97,000	88,000	9,000	S	12,000	9,000	2,000
Female	173,000	151,000	119,000	31,000	5,000	18,000	4,000	14,000
Other non-S&E fields	262,000	222,000	198,000	24,000	8,000	32,000	20,000	13,000
Male	138,000	125,000	117,000	9,000	4,000	8,000	8,000	S
Female	125,000	97,000	81,000	16,000	4,000	24,000	12,000	12,000
Doctorate degrees	1,026,000	885,000	802,000	84,000	21,000	119,000	95,000	25,000
Male	726,000	627,000	582,000	45,000	14,000	84,000	77,000	8,000
Female	300,000	258,000	220,000	39,000	7,000	35,000	18,000	17,000
S&E fields	796,000	690,000	625,000	65,000	18,000	88,000	69,000	19,000
Male	590,000	513,000	476,000	37,000	13,000	65,000	59,000	6,000
Female	206,000	177,000	150,000	28,000	6,000	23,000	10,000	13,000
Sciences	656,000	568,000	510,000	57,000	14,000	74,000	57,000	17,000
Male	462,000	401,000	370,000	30,000	9,000	52,000	47,000	5,000
Female	194,000	167,000	140,000	27,000	5,000	22,000	10,000	12,000
Biological/agricultural/environmental life sciences	221,000	191,000	178,000	12,000	6,000	25,000	19,000	6,000
Male	151,000	131,000	125,000	7,000	3,000	16,000	15,000	2,000
Female	71,000	59,000	53,000	6,000	3,000	8,000	4,000	4,000
Agricultural/food sciences	23,000	19,000	18,000	1,000	*	3,000	3,000	*
Male	19,000	16,000	15,000	1,000	*	3,000	3,000	S
Female	4,000	3,000	3,000	*	*	1,000	*	*
Biological sciences	191,000	165,000	154,000	11,000	5,000	20,000	15,000	6,000
Male	126,000	111,000	105,000	5,000	3,000	13,000	11,000	1,000
Female	65,000	55,000	49,000	6,000	3,000	8,000	4,000	4,000
Environmental life sciences	7,000	6,000	5,000	*	S	1,000	1,000	S
Male	5,000	5,000	4,000	*	S	1,000	1,000	S
Female	1,000	1,000	1,000	*	S	S	S	S
Computer/mathematical sciences	57,000	51,000	48,000	3,000	1,000	5,000	4,000	1,000
Male	47,000	42,000	39,000	3,000	1,000	4,000	3,000	1,000
Female	10,000	9,000	8,000	1,000	*	1,000	*	*

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Computer/information sciences	18,000	17,000	16,000	1,000	*	*	*	*
Male	15,000	15,000	14,000	1,000	*	*	S	*
Female	3,000	2,000	2,000	*	S	*	S	*
Mathematical sciences	39,000	34,000	32,000	2,000	1,000	5,000	4,000	1,000
Male	32,000	27,000	25,000	2,000	1,000	4,000	3,000	*
Female	8,000	7,000	6,000	1,000	*	1,000	*	*
Physical/related sciences	167,000	141,000	131,000	9,000	4,000	22,000	19,000	3,000
Male	142,000	120,000	113,000	7,000	3,000	19,000	18,000	1,000
Female	24,000	21,000	19,000	2,000	1,000	3,000	1,000	2,000
Chemistry, except biochemistry	86,000	71,000	66,000	5,000	2,000	13,000	11,000	2,000
Male	71,000	58,000	55,000	4,000	2,000	11,000	10,000	1,000
Female	15,000	13,000	12,000	1,000	*	2,000	1,000	1,000
Earth/atmospheric/ocean sciences	21,000	18,000	17,000	1,000	*	3,000	3,000	*
Male	18,000	15,000	14,000	1,000	*	3,000	3,000	*
Female	3,000	3,000	3,000	*	*	*	*	*
Physics/astronomy	55,000	48,000	45,000	3,000	1,000	6,000	5,000	1,000
Male	50,000	43,000	41,000	3,000	1,000	5,000	5,000	*
Female	5,000	4,000	4,000	*	*	1,000	*	1,000
Other physical sciences	4,000	4,000	4,000	*	S	*	*	S
Male	4,000	3,000	3,000	*	S	*	*	S
Female	1,000	1,000	1,000	S	S	S	S	S
Social/related sciences	211,000	185,000	153,000	32,000	3,000	22,000	16,000	6,000
Male	122,000	108,000	93,000	14,000	2,000	13,000	11,000	2,000
Female	89,000	78,000	60,000	18,000	2,000	9,000	4,000	5,000
Economics	28,000	24,000	21,000	2,000	*	4,000	3,000	1,000
Male	23,000	20,000	18,000	2,000	*	3,000	3,000	*
Female	5,000	4,000	4,000	*	*	*	*	*
Political/related sciences	24,000	21,000	18,000	2,000	*	3,000	2,000	1,000
Male	17,000	15,000	13,000	2,000	*	2,000	2,000	S
Female	7,000	5,000	5,000	*	*	1,000	*	1,000
Psychology	108,000	96,000	75,000	22,000	2,000	10,000	6,000	3,000
Male	53,000	48,000	41,000	7,000	1,000	5,000	4,000	1,000
Female	55,000	49,000	34,000	14,000	1,000	5,000	2,000	3,000
Sociology/anthropology	31,000	27,000	23,000	4,000	1,000	3,000	3,000	1,000
Male	16,000	14,000	12,000	2,000	*	2,000	2,000	*
Female	14,000	13,000	11,000	2,000	*	1,000	1,000	*

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other social sciences	21,000	18,000	16,000	2,000	*	2,000	2,000	1,000
Male	13,000	11,000	10,000	2,000	S	1,000	1,000	*
Female	8,000	7,000	6,000	1,000	*	1,000	1,000	1,000
Engineering	140,000	122,000	115,000	7,000	4,000	14,000	11,000	2,000
Male	129,000	112,000	105,000	7,000	4,000	13,000	11,000	2,000
Female	12,000	10,000	10,000	1,000	*	1,000	*	1,000
Aerospace/related engineering	7,000	6,000	6,000	1,000	S	1,000	1,000	S
Male	7,000	6,000	5,000	1,000	S	1,000	1,000	S
Female	*	*	*	S	S	S	S	S
Chemical engineering	19,000	16,000	15,000	1,000	1,000	2,000	2,000	*
Male	17,000	15,000	14,000	1,000	*	2,000	2,000	S
Female	2,000	2,000	1,000	*	S	*	S	*
Civil/architectural engineering	12,000	11,000	10,000	1,000	*	1,000	1,000	S
Male	11,000	10,000	10,000	*	*	1,000	1,000	S
Female	1,000	1,000	1,000	*	S	S	S	S
Electrical/computer engineering	41,000	36,000	34,000	2,000	2,000	3,000	2,000	1,000
Male	38,000	33,000	32,000	2,000	1,000	3,000	2,000	1,000
Female	3,000	3,000	2,000	*	*	*	S	*
Industrial engineering	4,000	4,000	4,000	S	S	*	*	*
Male	3,000	3,000	3,000	S	S	*	S	S
Female	1,000	1,000	1,000	S	S	S	S	S
Mechanical engineering	17,000	15,000	15,000	1,000	1,000	2,000	1,000	*
Male	16,000	14,000	14,000	1,000	1,000	1,000	1,000	S
Female	1,000	1,000	1,000	S	S	S	S	S
Other engineering	40,000	34,000	32,000	2,000	1,000	5,000	4,000	1,000
Male	36,000	31,000	28,000	2,000	1,000	4,000	4,000	1,000
Female	4,000	4,000	3,000	*	*	*	S	*
S&E-related fields	69,000	59,000	54,000	5,000	1,000	10,000	8,000	2,000
Male	39,000	31,000	29,000	2,000	*	7,000	7,000	1,000
Female	31,000	28,000	25,000	3,000	*	2,000	1,000	1,000
Health	46,000	41,000	37,000	4,000	1,000	5,000	4,000	1,000
Male	21,000	18,000	16,000	1,000	*	3,000	2,000	*
Female	25,000	23,000	21,000	2,000	*	2,000	1,000	1,000
Science/mathematics teacher education	12,000	9,000	8,000	1,000	S	4,000	4,000	S
Male	8,000	4,000	4,000	S	S	4,000	4,000	S
Female	4,000	4,000	4,000	S	S	S	S	S

TABLE 8. U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Technology/technical fields	4,000	3,000	3,000	S	S	S	S	S
Male	4,000	3,000	3,000	S	S	S	S	S
Female	S	S	S	S	S	S	S	S
Other S&E-related fields	7,000	7,000	6,000	S	S	S	S	S
Male	6,000	6,000	5,000	S	S	S	S	S
Female	1,000	1,000	1,000	S	S	S	S	S
Non-S&E degrees	160,000	136,000	123,000	14,000	2,000	22,000	18,000	4,000
Male	97,000	84,000	78,000	6,000	S	12,000	11,000	S
Female	64,000	53,000	45,000	8,000	1,000	10,000	7,000	3,000
Arts/humanities	20,000	17,000	14,000	2,000	S	3,000	2,000	S
Male	12,000	10,000	9,000	S	S	2,000	2,000	S
Female	8,000	7,000	5,000	2,000	S	S	S	S
Education, except science/mathematics teacher education	76,000	64,000	58,000	6,000	1,000	11,000	10,000	S
Male	43,000	35,000	33,000	3,000	S	7,000	7,000	S
Female	33,000	29,000	25,000	3,000	S	4,000	3,000	S
Management/administration	17,000	14,000	13,000	1,000	S	3,000	3,000	S
Male	13,000	12,000	11,000	S	S	S	S	S
Female	3,000	2,000	1,000	S	S	S	S	S
Sales/marketing	2,000	2,000	2,000	S	S	S	S	S
Male	1,000	1,000	1,000	S	S	S	S	S
Female	1,000	1,000	1,000	S	S	S	S	S
Social services/related	19,000	19,000	17,000	1,000	S	S	S	S
Male	14,000	14,000	13,000	S	S	S	S	S
Female	5,000	5,000	4,000	S	S	S	S	S
Other non-S&E fields	26,000	21,000	19,000	3,000	S	5,000	3,000	S
Male	13,000	12,000	10,000	2,000	S	S	S	S
Female	13,000	9,000	8,000	S	S	4,000	S	S

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
All degree levels and fields [b]	21,647,000	18,021,000	15,978,000	2,043,000	595,000	3,031,000	1,613,000	1,419,000
American Indian/Alaska Native	91,000	73,000	66,000	7,000	4,000	14,000	5,000	9,000
Asian	2,046,000	1,719,000	1,563,000	156,000	94,000	233,000	59,000	174,000
Black	1,198,000	1,035,000	974,000	61,000	46,000	117,000	67,000	50,000
Hispanic	1,094,000	937,000	867,000	70,000	34,000	123,000	47,000	76,000
White	16,867,000	13,957,000	12,240,000	1,717,000	407,000	2,503,000	1,415,000	1,088,000
Other	351,000	300,000	269,000	32,000	11,000	40,000	19,000	21,000
S&E fields	11,880,000	9,579,000	8,610,000	969,000	414,000	1,886,000	973,000	913,000
American Indian/Alaska Native	49,000	36,000	33,000	3,000	4,000	9,000	3,000	5,000
Asian	1,301,000	1,072,000	983,000	89,000	69,000	160,000	35,000	126,000
Black	633,000	531,000	495,000	36,000	32,000	70,000	33,000	37,000
Hispanic	622,000	513,000	474,000	39,000	25,000	84,000	30,000	54,000
White	9,069,000	7,257,000	6,473,000	784,000	278,000	1,534,000	861,000	673,000
Other	207,000	170,000	153,000	17,000	7,000	29,000	12,000	18,000
Sciences	9,048,000	7,245,000	6,404,000	842,000	308,000	1,494,000	667,000	828,000
American Indian/Alaska Native	42,000	31,000	28,000	3,000	S	8,000	2,000	5,000
Asian	860,000	685,000	612,000	73,000	45,000	130,000	20,000	110,000
Black	550,000	456,000	423,000	33,000	28,000	66,000	31,000	35,000
Hispanic	471,000	382,000	347,000	35,000	21,000	68,000	21,000	47,000
White	6,962,000	5,561,000	4,880,000	682,000	205,000	1,196,000	582,000	614,000
Other	163,000	130,000	114,000	16,000	6,000	27,000	10,000	17,000
Biological/agricultural/environmental life sciences	1,851,000	1,481,000	1,331,000	150,000	50,000	320,000	132,000	188,000
American Indian/Alaska Native	8,000	7,000	6,000	1,000	S	1,000	S	1,000
Asian	190,000	144,000	129,000	15,000	7,000	38,000	5,000	33,000
Black	73,000	61,000	57,000	4,000	4,000	9,000	3,000	6,000
Hispanic	95,000	79,000	73,000	5,000	4,000	13,000	2,000	11,000
White	1,453,000	1,168,000	1,047,000	121,000	35,000	250,000	120,000	130,000
Other	32,000	23,000	20,000	4,000	S	8,000	2,000	6,000
Agricultural/food sciences	292,000	249,000	230,000	19,000	6,000	36,000	24,000	12,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S
Asian	18,000	15,000	14,000	1,000	S	3,000	1,000	2,000
Black	6,000	6,000	6,000	*	S	S	S	S
Hispanic	12,000	10,000	10,000	1,000	S	1,000	1,000	*
White	248,000	213,000	196,000	17,000	5,000	30,000	21,000	9,000
Other	6,000	5,000	5,000	S	S	S	S	S
Biological sciences	1,374,000	1,081,000	959,000	122,000	38,000	256,000	90,000	166,000
American Indian/Alaska Native	5,000	4,000	4,000	S	S	1,000	S	S
Asian	164,000	125,000	111,000	14,000	5,000	33,000	4,000	29,000
Black	65,000	53,000	49,000	4,000	3,000	9,000	3,000	6,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Hispanic	80,000	64,000	60,000	5,000	4,000	11,000	1,000	11,000
White	1,038,000	818,000	723,000	95,000	25,000	195,000	82,000	114,000
Other	22,000	16,000	13,000	3,000	S	6,000	S	5,000
Environmental life sciences	185,000	151,000	142,000	9,000	6,000	28,000	18,000	10,000
American Indian/Alaska Native	2,000	2,000	1,000	S	S	S	S	S
Asian	8,000	4,000	4,000	S	S	2,000	S	2,000
Black	2,000	2,000	2,000	S	S	S	S	S
Hispanic	4,000	4,000	4,000	S	S	S	S	S
White	166,000	137,000	128,000	9,000	5,000	25,000	17,000	7,000
Other	3,000	2,000	2,000	S	S	S	S	S
Computer/mathematical sciences	1,703,000	1,437,000	1,318,000	119,000	75,000	191,000	83,000	108,000
American Indian/Alaska Native	10,000	7,000	6,000	S	S	S	S	S
Asian	298,000	248,000	230,000	18,000	22,000	28,000	4,000	24,000
Black	105,000	94,000	88,000	5,000	5,000	7,000	3,000	4,000
Hispanic	74,000	63,000	60,000	3,000	4,000	7,000	3,000	4,000
White	1,188,000	1,002,000	911,000	91,000	41,000	145,000	72,000	74,000
Other	28,000	25,000	23,000	1,000	1,000	2,000	S	2,000
Computer/information sciences	1,087,000	961,000	899,000	62,000	53,000	73,000	14,000	59,000
American Indian/Alaska Native	9,000	6,000	6,000	S	S	S	S	S
Asian	232,000	199,000	187,000	12,000	18,000	16,000	1,000	14,000
Black	72,000	64,000	60,000	4,000	5,000	3,000	S	3,000
Hispanic	57,000	50,000	48,000	2,000	3,000	4,000	S	3,000
White	697,000	624,000	580,000	43,000	26,000	48,000	12,000	37,000
Other	20,000	18,000	17,000	S	S	1,000	S	S
Mathematical sciences	616,000	476,000	420,000	56,000	22,000	119,000	69,000	50,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S
Asian	66,000	49,000	44,000	6,000	4,000	12,000	3,000	10,000
Black	34,000	29,000	28,000	2,000	1,000	4,000	3,000	1,000
Hispanic	18,000	13,000	12,000	1,000	1,000	3,000	2,000	1,000
White	491,000	378,000	330,000	48,000	16,000	97,000	60,000	37,000
Other	8,000	6,000	6,000	S	S	2,000	S	S
Physical/related sciences	876,000	694,000	631,000	63,000	27,000	155,000	106,000	50,000
American Indian/Alaska Native	3,000	2,000	2,000	S	S	S	S	S
Asian	118,000	97,000	85,000	12,000	7,000	15,000	4,000	10,000
Black	25,000	21,000	20,000	1,000	*	4,000	3,000	1,000
Hispanic	34,000	32,000	31,000	1,000	*	2,000	1,000	1,000
White	682,000	535,000	488,000	47,000	19,000	129,000	95,000	33,000
Other	13,000	7,000	6,000	1,000	*	6,000	2,000	4,000
Chemistry, except biochemistry	421,000	326,000	295,000	31,000	11,000	83,000	50,000	34,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	73,000	61,000	53,000	7,000	3,000	9,000	2,000	7,000
Black	16,000	13,000	12,000	1,000	*	2,000	2,000	1,000
Hispanic	18,000	17,000	17,000	*	*	2,000	1,000	1,000
White	305,000	231,000	209,000	22,000	7,000	67,000	45,000	22,000
Other	7,000	4,000	3,000	1,000	S	4,000	S	S
Earth/atmospheric/ocean sciences	211,000	170,000	154,000	16,000	6,000	35,000	26,000	9,000
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	8,000	7,000	6,000	1,000	*	1,000	S	*
Black	2,000	1,000	1,000	S	S	S	S	S
Hispanic	6,000	5,000	5,000	*	S	*	S	S
White	193,000	154,000	140,000	14,000	6,000	34,000	25,000	8,000
Other	2,000	2,000	1,000	S	S	S	S	S
Physics/astronomy	187,000	152,000	137,000	15,000	7,000	28,000	22,000	5,000
American Indian/Alaska Native	1,000	*	*	S	S	S	S	S
Asian	34,000	27,000	23,000	4,000	3,000	5,000	2,000	3,000
Black	4,000	3,000	3,000	*	S	*	S	*
Hispanic	6,000	5,000	5,000	1,000	S	*	S	*
White	141,000	115,000	105,000	10,000	4,000	22,000	20,000	2,000
Other	2,000	1,000	1,000	S	S	S	S	S
Other physical sciences	57,000	45,000	44,000	2,000	2,000	9,000	8,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	3,000	2,000	2,000	S	S	S	S	S
Black	4,000	4,000	4,000	S	S	S	S	S
Hispanic	4,000	4,000	4,000	S	S	S	S	S
White	43,000	35,000	33,000	1,000	S	7,000	5,000	1,000
Other	S	S	S	S	S	S	S	S
Social/related sciences	4,618,000	3,633,000	3,124,000	510,000	157,000	828,000	346,000	482,000
American Indian/Alaska Native	22,000	16,000	14,000	2,000	S	5,000	S	3,000
Asian	254,000	196,000	168,000	28,000	9,000	49,000	7,000	42,000
Black	346,000	281,000	259,000	22,000	19,000	46,000	23,000	24,000
Hispanic	267,000	209,000	183,000	26,000	13,000	45,000	15,000	30,000
White	3,639,000	2,857,000	2,434,000	423,000	110,000	671,000	295,000	377,000
Other	90,000	75,000	66,000	9,000	4,000	11,000	5,000	5,000
Economics	680,000	551,000	498,000	53,000	25,000	104,000	58,000	46,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	92,000	72,000	64,000	7,000	3,000	17,000	1,000	15,000
Black	25,000	19,000	19,000	*	1,000	5,000	3,000	1,000
Hispanic	29,000	24,000	22,000	1,000	1,000	5,000	2,000	3,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
White	525,000	429,000	386,000	43,000	19,000	77,000	52,000	25,000
Other	8,000	7,000	7,000	S	S	1,000	S	S
Political/related sciences	830,000	666,000	598,000	67,000	34,000	130,000	59,000	71,000
American Indian/Alaska Native	5,000	5,000	4,000	S	S	S	S	S
Asian	42,000	30,000	25,000	5,000	3,000	9,000	2,000	7,000
Black	66,000	57,000	52,000	5,000	3,000	6,000	2,000	4,000
Hispanic	48,000	37,000	33,000	4,000	3,000	7,000	2,000	5,000
White	652,000	523,000	472,000	51,000	23,000	106,000	51,000	54,000
Other	17,000	14,000	13,000	1,000	S	2,000	S	S
Psychology	1,734,000	1,335,000	1,096,000	239,000	55,000	343,000	131,000	212,000
American Indian/Alaska Native	6,000	4,000	4,000	*	S	S	S	S
Asian	63,000	52,000	45,000	7,000	1,000	10,000	1,000	9,000
Black	129,000	103,000	94,000	9,000	9,000	17,000	7,000	10,000
Hispanic	108,000	83,000	69,000	14,000	4,000	20,000	6,000	14,000
White	1,391,000	1,063,000	858,000	205,000	40,000	289,000	113,000	176,000
Other	37,000	30,000	26,000	4,000	1,000	5,000	3,000	2,000
Sociology/anthropology	895,000	684,000	586,000	98,000	32,000	180,000	65,000	115,000
American Indian/Alaska Native	7,000	3,000	3,000	S	S	S	S	S
Asian	29,000	22,000	17,000	4,000	1,000	6,000	1,000	6,000
Black	88,000	67,000	64,000	3,000	6,000	15,000	8,000	7,000
Hispanic	44,000	35,000	32,000	3,000	3,000	6,000	3,000	4,000
White	708,000	541,000	456,000	85,000	19,000	148,000	52,000	96,000
Other	19,000	16,000	14,000	2,000	1,000	S	S	S
Other social sciences	479,000	398,000	346,000	52,000	11,000	70,000	33,000	37,000
American Indian/Alaska Native	4,000	3,000	3,000	S	S	S	S	S
Asian	28,000	21,000	17,000	4,000	S	7,000	1,000	6,000
Black	38,000	35,000	31,000	4,000	*	3,000	2,000	1,000
Hispanic	38,000	30,000	27,000	3,000	S	7,000	3,000	5,000
White	362,000	301,000	262,000	39,000	9,000	52,000	27,000	25,000
Other	9,000	8,000	6,000	2,000	S	1,000	S	1,000
Engineering	2,832,000	2,334,000	2,207,000	127,000	106,000	392,000	307,000	85,000
American Indian/Alaska Native	6,000	5,000	4,000	S	S	S	S	S
Asian	441,000	387,000	371,000	17,000	24,000	30,000	14,000	15,000
Black	83,000	75,000	72,000	3,000	4,000	4,000	2,000	2,000
Hispanic	151,000	131,000	127,000	4,000	4,000	16,000	8,000	7,000
White	2,107,000	1,696,000	1,594,000	102,000	73,000	339,000	279,000	59,000
Other	44,000	40,000	39,000	1,000	1,000	2,000	2,000	1,000
Aerospace/related engineering	100,000	85,000	81,000	4,000	2,000	13,000	12,000	1,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Asian	8,000	7,000	7,000	*	S	*	S	S
Black	2,000	1,000	1,000	S	S	S	S	S
Hispanic	4,000	4,000	3,000	1,000	S	S	S	S
White	83,000	70,000	66,000	3,000	2,000	12,000	11,000	*
Other	3,000	3,000	3,000	S	S	S	S	S
Chemical engineering	197,000	159,000	151,000	9,000	5,000	32,000	24,000	9,000
American Indian/Alaska Native	2,000	1,000	1,000	S	S	S	S	S
Asian	35,000	31,000	29,000	1,000	1,000	3,000	2,000	1,000
Black	5,000	5,000	5,000	S	S	*	S	*
Hispanic	11,000	10,000	10,000	*	S	1,000	S	*
White	142,000	110,000	103,000	7,000	4,000	28,000	21,000	7,000
Other	3,000	2,000	2,000	S	S	S	S	S
Civil/architectural engineering	443,000	385,000	363,000	22,000	12,000	46,000	38,000	8,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	53,000	45,000	42,000	3,000	3,000	5,000	4,000	1,000
Black	13,000	12,000	11,000	*	S	S	S	S
Hispanic	33,000	31,000	31,000	1,000	S	2,000	2,000	1,000
White	332,000	286,000	268,000	18,000	8,000	38,000	32,000	6,000
Other	11,000	10,000	10,000	S	S	S	S	S
Electrical/computer engineering	905,000	748,000	711,000	37,000	42,000	114,000	86,000	28,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S
Asian	203,000	182,000	175,000	7,000	12,000	9,000	2,000	7,000
Black	38,000	34,000	33,000	2,000	2,000	2,000	2,000	*
Hispanic	43,000	36,000	36,000	*	3,000	3,000	1,000	2,000
White	605,000	482,000	453,000	28,000	26,000	98,000	79,000	18,000
Other	16,000	14,000	14,000	S	S	2,000	S	S
Industrial engineering	181,000	134,000	129,000	5,000	10,000	38,000	29,000	10,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	20,000	17,000	17,000	*	1,000	2,000	S	2,000
Black	6,000	5,000	5,000	S	S	S	S	S
Hispanic	16,000	12,000	12,000	*	S	3,000	S	1,000
White	138,000	98,000	94,000	4,000	8,000	32,000	26,000	6,000
Other	1,000	1,000	1,000	S	S	S	S	S
Mechanical engineering	597,000	492,000	464,000	28,000	21,000	84,000	73,000	11,000
American Indian/Alaska Native	2,000	1,000	1,000	S	S	S	S	S
Asian	70,000	61,000	59,000	3,000	5,000	4,000	3,000	1,000
Black	12,000	11,000	11,000	*	S	*	S	S
Hispanic	23,000	20,000	19,000	*	S	2,000	2,000	1,000
White	485,000	392,000	369,000	23,000	15,000	77,000	68,000	9,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other	6,000	6,000	5,000	S	S	S	S	S
Other engineering	407,000	330,000	307,000	23,000	13,000	64,000	45,000	19,000
American Indian/Alaska Native	1,000	1,000	S	S	S	S	S	S
Asian	52,000	44,000	42,000	3,000	2,000	6,000	3,000	3,000
Black	7,000	7,000	6,000	S	*	S	S	S
Hispanic	21,000	18,000	16,000	2,000	S	3,000	S	3,000
White	322,000	258,000	239,000	18,000	11,000	54,000	41,000	13,000
Other	4,000	4,000	3,000	S	S	*	S	S
S&E-related fields	5,203,000	4,383,000	3,679,000	704,000	84,000	736,000	386,000	351,000
American Indian/Alaska Native	21,000	17,000	15,000	2,000	S	4,000	2,000	S
Asian	484,000	421,000	371,000	50,000	13,000	50,000	18,000	32,000
Black	270,000	238,000	225,000	13,000	6,000	26,000	16,000	10,000
Hispanic	278,000	249,000	228,000	21,000	5,000	24,000	11,000	14,000
White	4,071,000	3,387,000	2,777,000	610,000	59,000	625,000	335,000	291,000
Other	80,000	72,000	64,000	8,000	S	7,000	4,000	2,000
Health	3,998,000	3,373,000	2,771,000	602,000	53,000	572,000	270,000	302,000
American Indian/Alaska Native	17,000	14,000	12,000	2,000	S	2,000	S	S
Asian	392,000	343,000	303,000	40,000	7,000	42,000	15,000	27,000
Black	206,000	182,000	171,000	11,000	5,000	19,000	10,000	9,000
Hispanic	216,000	192,000	174,000	18,000	4,000	20,000	10,000	10,000
White	3,101,000	2,580,000	2,056,000	524,000	38,000	484,000	231,000	253,000
Other	67,000	62,000	55,000	7,000	S	4,000	2,000	2,000
Science/mathematics teacher education	439,000	340,000	288,000	52,000	9,000	90,000	72,000	19,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S
Asian	13,000	11,000	10,000	1,000	S	S	S	S
Black	25,000	19,000	18,000	1,000	S	5,000	5,000	S
Hispanic	18,000	16,000	15,000	1,000	S	2,000	S	S
White	378,000	291,000	243,000	48,000	7,000	79,000	63,000	16,000
Other	3,000	2,000	1,000	S	S	S	S	S
Technology/technical fields	397,000	334,000	315,000	18,000	17,000	46,000	30,000	16,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S
Asian	51,000	43,000	38,000	5,000	4,000	4,000	S	3,000
Black	23,000	21,000	21,000	S	S	S	S	S
Hispanic	21,000	20,000	19,000	S	S	S	S	S
White	294,000	244,000	232,000	12,000	10,000	40,000	29,000	11,000
Other	6,000	4,000	4,000	S	S	S	S	S
Other S&E-related fields	369,000	336,000	305,000	31,000	5,000	28,000	13,000	15,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	29,000	24,000	21,000	3,000	1,000	3,000	1,000	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Black	16,000	16,000	15,000	S	S	S	S	S
Hispanic	22,000	20,000	20,000	S	S	S	S	S
White	298,000	272,000	245,000	26,000	4,000	23,000	12,000	11,000
Other	3,000	3,000	3,000	S	S	S	S	S
Non-S&E fields	4,564,000	4,059,000	3,689,000	370,000	97,000	409,000	254,000	155,000
American Indian/Alaska Native	22,000	20,000	19,000	2,000	S	S	S	S
Asian	260,000	226,000	209,000	17,000	12,000	22,000	6,000	16,000
Black	295,000	265,000	253,000	12,000	8,000	21,000	19,000	3,000
Hispanic	195,000	176,000	166,000	10,000	4,000	15,000	7,000	8,000
White	3,727,000	3,313,000	2,990,000	323,000	70,000	344,000	220,000	124,000
Other	65,000	59,000	52,000	7,000	2,000	4,000	3,000	1,000
Arts/humanities	390,000	366,000	315,000	51,000	5,000	19,000	12,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	22,000	20,000	17,000	3,000	S	2,000	S	S
Black	10,000	9,000	8,000	S	S	S	S	S
Hispanic	14,000	13,000	12,000	S	S	S	S	S
White	339,000	320,000	273,000	46,000	4,000	16,000	10,000	5,000
Other	4,000	4,000	3,000	S	S	S	S	S
Education, except science/mathematics teacher education	1,044,000	890,000	812,000	78,000	12,000	142,000	102,000	40,000
American Indian/Alaska Native	6,000	6,000	5,000	S	S	S	S	S
Asian	24,000	21,000	18,000	3,000	2,000	2,000	S	S
Black	83,000	70,000	66,000	4,000	1,000	12,000	11,000	S
Hispanic	45,000	41,000	37,000	3,000	S	4,000	2,000	2,000
White	870,000	739,000	674,000	65,000	8,000	122,000	86,000	36,000
Other	15,000	13,000	12,000	2,000	S	2,000	S	S
Management/administration	1,522,000	1,367,000	1,281,000	86,000	42,000	114,000	68,000	46,000
American Indian/Alaska Native	9,000	9,000	9,000	S	S	S	S	S
Asian	142,000	122,000	115,000	7,000	8,000	11,000	2,000	9,000
Black	95,000	88,000	85,000	2,000	3,000	4,000	3,000	S
Hispanic	65,000	60,000	58,000	2,000	3,000	2,000	S	S
White	1,190,000	1,067,000	992,000	75,000	28,000	95,000	60,000	34,000
Other	23,000	21,000	21,000	S	S	2,000	1,000	S
Sales/marketing	160,000	144,000	131,000	14,000	6,000	10,000	4,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	12,000	10,000	10,000	S	S	S	S	S
Black	7,000	6,000	5,000	S	S	S	S	S
Hispanic	6,000	5,000	4,000	S	S	S	S	S
White	134,000	122,000	110,000	11,000	4,000	8,000	3,000	5,000
Other	1,000	1,000	1,000	S	S	S	S	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Social services/related	357,000	317,000	267,000	50,000	6,000	34,000	17,000	17,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	11,000	9,000	8,000	S	S	2,000	S	2,000
Black	36,000	34,000	33,000	S	S	2,000	S	S
Hispanic	15,000	13,000	13,000	S	S	2,000	S	S
White	289,000	256,000	209,000	47,000	6,000	27,000	14,000	14,000
Other	5,000	5,000	4,000	S	S	S	S	S
Other non-S&E fields	1,092,000	975,000	883,000	92,000	27,000	90,000	52,000	38,000
American Indian/Alaska Native	6,000	4,000	4,000	S	S	S	S	S
Asian	49,000	43,000	40,000	3,000	2,000	4,000	2,000	3,000
Black	65,000	60,000	56,000	4,000	2,000	3,000	3,000	S
Hispanic	49,000	44,000	41,000	3,000	S	5,000	2,000	3,000
White	906,000	810,000	731,000	79,000	20,000	76,000	45,000	31,000
Other	17,000	15,000	12,000	3,000	S	S	S	S
Bachelor's degrees	12,782,000	10,490,000	9,259,000	1,231,000	368,000	1,924,000	897,000	1,027,000
American Indian/Alaska Native	61,000	47,000	43,000	4,000	4,000	10,000	3,000	8,000
Asian	1,065,000	873,000	787,000	86,000	48,000	145,000	28,000	117,000
Black	747,000	648,000	611,000	38,000	31,000	68,000	32,000	36,000
Hispanic	699,000	588,000	545,000	43,000	26,000	85,000	29,000	55,000
White	9,977,000	8,135,000	7,096,000	1,039,000	253,000	1,588,000	794,000	794,000
Other	232,000	198,000	177,000	21,000	6,000	28,000	11,000	18,000
S&E fields	8,716,000	6,953,000	6,269,000	684,000	317,000	1,447,000	689,000	758,000
American Indian/Alaska Native	41,000	30,000	28,000	2,000	4,000	7,000	S	5,000
Asian	762,000	610,000	558,000	53,000	41,000	110,000	18,000	93,000
Black	507,000	426,000	399,000	28,000	27,000	54,000	23,000	31,000
Hispanic	497,000	405,000	375,000	30,000	23,000	70,000	24,000	46,000
White	6,745,000	5,349,000	4,792,000	557,000	216,000	1,180,000	613,000	567,000
Other	164,000	132,000	118,000	15,000	5,000	26,000	10,000	16,000
Sciences	6,666,000	5,276,000	4,677,000	599,000	239,000	1,152,000	451,000	701,000
American Indian/Alaska Native	35,000	25,000	23,000	2,000	S	6,000	S	5,000
Asian	517,000	396,000	351,000	45,000	27,000	94,000	10,000	84,000
Black	441,000	366,000	341,000	25,000	24,000	51,000	22,000	29,000
Hispanic	379,000	303,000	277,000	26,000	19,000	57,000	17,000	40,000
White	5,164,000	4,083,000	3,596,000	487,000	160,000	921,000	393,000	527,000
Other	129,000	101,000	88,000	14,000	4,000	24,000	8,000	16,000
Biological/agricultural/environmental life sciences	1,369,000	1,082,000	967,000	115,000	39,000	249,000	85,000	164,000
American Indian/Alaska Native	6,000	5,000	5,000	S	S	S	S	S
Asian	114,000	81,000	69,000	11,000	5,000	28,000	2,000	26,000
Black	58,000	48,000	45,000	3,000	3,000	7,000	2,000	6,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Hispanic	79,000	64,000	59,000	5,000	4,000	11,000	S	10,000
White	1,087,000	865,000	774,000	91,000	27,000	194,000	78,000	116,000
Other	26,000	18,000	14,000	3,000	S	8,000	S	6,000
Agricultural/food sciences	232,000	199,000	183,000	15,000	5,000	28,000	17,000	11,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	12,000	9,000	8,000	S	S	3,000	S	2,000
Black	4,000	3,000	3,000	S	S	S	S	S
Hispanic	8,000	7,000	7,000	S	S	1,000	S	*
White	203,000	175,000	161,000	14,000	5,000	23,000	15,000	8,000
Other	5,000	4,000	3,000	S	S	S	S	S
Biological sciences	998,000	767,000	675,000	93,000	28,000	202,000	58,000	144,000
American Indian/Alaska Native	4,000	3,000	3,000	S	S	S	S	S
Asian	98,000	71,000	60,000	11,000	3,000	23,000	2,000	22,000
Black	53,000	44,000	40,000	3,000	2,000	7,000	2,000	6,000
Hispanic	67,000	53,000	49,000	4,000	4,000	10,000	S	9,000
White	758,000	584,000	513,000	71,000	19,000	155,000	54,000	102,000
Other	18,000	13,000	9,000	3,000	S	6,000	S	5,000
Environmental life sciences	139,000	116,000	109,000	6,000	5,000	18,000	10,000	9,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	4,000	S	S	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	4,000	4,000	4,000	S	S	S	S	S
White	126,000	107,000	100,000	6,000	4,000	16,000	10,000	6,000
Other	2,000	2,000	2,000	S	S	S	S	S
Computer/mathematical sciences	1,202,000	1,010,000	927,000	83,000	49,000	143,000	55,000	88,000
American Indian/Alaska Native	9,000	5,000	5,000	S	S	S	S	S
Asian	145,000	117,000	108,000	8,000	10,000	19,000	2,000	16,000
Black	85,000	75,000	71,000	4,000	4,000	6,000	3,000	4,000
Hispanic	62,000	52,000	50,000	3,000	3,000	6,000	3,000	3,000
White	881,000	743,000	676,000	67,000	29,000	108,000	47,000	61,000
Other	21,000	18,000	17,000	S	1,000	2,000	S	S
Computer/information sciences	753,000	667,000	623,000	44,000	34,000	52,000	7,000	45,000
American Indian/Alaska Native	8,000	5,000	5,000	S	S	S	S	S
Asian	107,000	91,000	86,000	5,000	8,000	9,000	S	9,000
Black	59,000	53,000	49,000	3,000	3,000	3,000	S	3,000
Hispanic	47,000	42,000	40,000	2,000	2,000	4,000	S	3,000
White	517,000	463,000	431,000	33,000	19,000	35,000	6,000	29,000
Other	14,000	13,000	12,000	S	S	S	S	S
Mathematical sciences	449,000	343,000	304,000	39,000	15,000	91,000	48,000	43,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	38,000	26,000	22,000	3,000	2,000	10,000	2,000	8,000
Black	26,000	22,000	21,000	1,000	1,000	3,000	3,000	1,000
Hispanic	14,000	11,000	10,000	S	S	2,000	2,000	*
White	364,000	280,000	246,000	34,000	10,000	74,000	41,000	32,000
Other	7,000	5,000	5,000	S	S	S	S	S
Physical/related sciences	548,000	423,000	387,000	36,000	17,000	107,000	68,000	39,000
American Indian/Alaska Native	2,000	2,000	2,000	S	S	S	S	S
Asian	59,000	46,000	38,000	8,000	4,000	9,000	2,000	7,000
Black	19,000	16,000	15,000	1,000	S	3,000	2,000	1,000
Hispanic	27,000	25,000	24,000	1,000	*	2,000	S	1,000
White	432,000	331,000	305,000	26,000	13,000	89,000	62,000	27,000
Other	10,000	4,000	3,000	1,000	S	5,000	S	4,000
Chemistry, except biochemistry	275,000	209,000	188,000	21,000	7,000	59,000	31,000	29,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	37,000	29,000	24,000	4,000	2,000	6,000	1,000	5,000
Black	12,000	10,000	10,000	1,000	S	2,000	1,000	*
Hispanic	15,000	14,000	14,000	S	S	1,000	S	1,000
White	204,000	152,000	138,000	14,000	5,000	47,000	28,000	18,000
Other	6,000	3,000	2,000	1,000	S	S	S	S
Earth/atmospheric/ocean sciences	135,000	105,000	98,000	7,000	5,000	25,000	19,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	4,000	4,000	4,000	S	S	S	S	S
White	126,000	98,000	91,000	7,000	4,000	24,000	18,000	6,000
Other	1,000	1,000	1,000	S	S	S	S	S
Physics/astronomy	93,000	73,000	66,000	7,000	4,000	16,000	13,000	3,000
American Indian/Alaska Native	*	*	S	S	S	S	S	S
Asian	17,000	13,000	11,000	3,000	2,000	2,000	S	1,000
Black	2,000	2,000	2,000	*	S	*	S	*
Hispanic	3,000	3,000	2,000	1,000	S	*	S	*
White	69,000	54,000	50,000	4,000	2,000	13,000	12,000	1,000
Other	1,000	1,000	1,000	S	S	S	S	S
Other physical sciences	46,000	36,000	36,000	1,000	S	7,000	6,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	S	S	S	S
Black	4,000	3,000	3,000	S	S	S	S	S
Hispanic	4,000	4,000	4,000	S	S	S	S	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
White	34,000	27,000	27,000	*	S	5,000	4,000	1,000
Other	S	S	S	S	S	S	S	S
Social/related sciences	3,547,000	2,760,000	2,395,000	365,000	134,000	653,000	242,000	411,000
American Indian/Alaska Native	19,000	13,000	11,000	2,000	S	4,000	S	S
Asian	199,000	153,000	135,000	18,000	8,000	39,000	3,000	36,000
Black	279,000	227,000	210,000	17,000	18,000	34,000	15,000	19,000
Hispanic	212,000	162,000	144,000	18,000	12,000	38,000	12,000	26,000
White	2,764,000	2,144,000	1,841,000	304,000	91,000	529,000	206,000	323,000
Other	73,000	61,000	53,000	8,000	3,000	9,000	5,000	4,000
Economics	563,000	455,000	413,000	43,000	23,000	84,000	43,000	42,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	75,000	58,000	52,000	6,000	3,000	14,000	S	14,000
Black	20,000	17,000	17,000	S	1,000	3,000	S	*
Hispanic	25,000	20,000	19,000	1,000	S	4,000	S	3,000
White	435,000	354,000	318,000	35,000	18,000	63,000	39,000	24,000
Other	7,000	6,000	6,000	S	S	S	S	S
Political/related sciences	688,000	548,000	492,000	56,000	30,000	109,000	46,000	64,000
American Indian/Alaska Native	4,000	4,000	3,000	S	S	S	S	S
Asian	32,000	23,000	18,000	4,000	3,000	7,000	S	6,000
Black	56,000	48,000	43,000	5,000	3,000	5,000	2,000	4,000
Hispanic	41,000	31,000	28,000	3,000	3,000	7,000	S	5,000
White	540,000	430,000	387,000	43,000	21,000	89,000	40,000	49,000
Other	15,000	13,000	12,000	S	S	S	S	S
Psychology	1,133,000	849,000	703,000	146,000	43,000	242,000	77,000	165,000
American Indian/Alaska Native	4,000	3,000	2,000	S	S	S	S	S
Asian	48,000	39,000	37,000	2,000	S	7,000	S	7,000
Black	92,000	73,000	66,000	7,000	8,000	11,000	4,000	7,000
Hispanic	77,000	58,000	50,000	9,000	4,000	15,000	4,000	10,000
White	886,000	655,000	531,000	124,000	28,000	203,000	66,000	137,000
Other	26,000	20,000	17,000	3,000	S	4,000	3,000	S
Sociology/anthropology	798,000	605,000	522,000	83,000	29,000	164,000	55,000	109,000
American Indian/Alaska Native	6,000	3,000	2,000	S	S	S	S	S
Asian	24,000	18,000	15,000	3,000	1,000	5,000	S	5,000
Black	81,000	62,000	59,000	3,000	6,000	14,000	7,000	7,000
Hispanic	38,000	30,000	27,000	3,000	3,000	6,000	2,000	3,000
White	631,000	478,000	406,000	72,000	17,000	135,000	44,000	91,000
Other	18,000	15,000	13,000	2,000	S	S	S	S
Other social sciences	364,000	303,000	265,000	38,000	8,000	53,000	22,000	31,000
American Indian/Alaska Native	3,000	3,000	3,000	S	S	S	S	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Asian	20,000	15,000	12,000	3,000	S	5,000	S	5,000
Black	30,000	28,000	25,000	3,000	*	2,000	S	1,000
Hispanic	31,000	23,000	21,000	3,000	S	7,000	3,000	4,000
White	273,000	228,000	199,000	29,000	6,000	39,000	18,000	21,000
Other	7,000	7,000	5,000	S	S	S	S	S
Engineering	2,050,000	1,677,000	1,592,000	85,000	78,000	295,000	238,000	57,000
American Indian/Alaska Native	5,000	4,000	4,000	S	S	S	S	S
Asian	244,000	214,000	206,000	8,000	14,000	16,000	8,000	9,000
Black	66,000	60,000	58,000	2,000	3,000	3,000	1,000	2,000
Hispanic	118,000	102,000	98,000	4,000	4,000	13,000	7,000	6,000
White	1,581,000	1,266,000	1,196,000	70,000	56,000	259,000	219,000	40,000
Other	34,000	31,000	30,000	1,000	1,000	2,000	2,000	1,000
Aerospace/related engineering	74,000	64,000	61,000	3,000	2,000	9,000	8,000	*
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S
Asian	3,000	3,000	3,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	*	S	S	S	S
White	65,000	54,000	52,000	2,000	2,000	9,000	8,000	S
Other	2,000	2,000	2,000	S	S	S	S	S
Chemical engineering	144,000	116,000	110,000	6,000	4,000	24,000	18,000	6,000
American Indian/Alaska Native	2,000	1,000	1,000	S	S	S	S	S
Asian	18,000	16,000	15,000	1,000	S	2,000	S	1,000
Black	4,000	4,000	4,000	S	S	S	S	S
Hispanic	8,000	7,000	7,000	S	S	1,000	S	S
White	110,000	86,000	81,000	5,000	3,000	21,000	16,000	5,000
Other	2,000	2,000	2,000	S	S	S	S	S
Civil/architectural engineering	335,000	288,000	276,000	12,000	10,000	37,000	30,000	7,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	31,000	26,000	24,000	S	2,000	3,000	2,000	S
Black	10,000	9,000	9,000	S	S	S	S	S
Hispanic	26,000	25,000	24,000	1,000	S	2,000	1,000	S
White	258,000	219,000	209,000	10,000	7,000	32,000	26,000	6,000
Other	9,000	8,000	8,000	S	S	S	S	S
Electrical/computer engineering	628,000	518,000	494,000	24,000	31,000	78,000	60,000	18,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S
Asian	115,000	102,000	100,000	2,000	7,000	5,000	1,000	4,000
Black	31,000	29,000	27,000	2,000	2,000	1,000	S	S
Hispanic	35,000	29,000	28,000	*	3,000	3,000	S	2,000
White	433,000	347,000	327,000	20,000	19,000	67,000	55,000	12,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other	14,000	12,000	11,000	S	S	2,000	S	S
Industrial engineering	137,000	101,000	97,000	4,000	7,000	30,000	23,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	10,000	8,000	8,000	S	S	S	S	S
Black	4,000	3,000	3,000	S	S	S	S	S
Hispanic	12,000	10,000	10,000	S	S	2,000	S	1,000
White	110,000	79,000	75,000	3,000	6,000	25,000	21,000	5,000
Other	1,000	1,000	1,000	S	S	S	S	S
Mechanical engineering	480,000	393,000	370,000	22,000	17,000	70,000	63,000	7,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	45,000	41,000	39,000	2,000	3,000	2,000	1,000	S
Black	10,000	10,000	9,000	*	S	S	S	S
Hispanic	19,000	16,000	16,000	*	S	2,000	S	1,000
White	399,000	321,000	302,000	19,000	13,000	65,000	59,000	5,000
Other	5,000	5,000	4,000	S	S	S	S	S
Other engineering	251,000	197,000	184,000	13,000	7,000	46,000	35,000	12,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	22,000	18,000	17,000	S	1,000	3,000	S	2,000
Black	4,000	4,000	4,000	S	S	S	S	S
Hispanic	15,000	13,000	11,000	1,000	S	3,000	S	2,000
White	206,000	160,000	150,000	10,000	6,000	41,000	33,000	8,000
Other	2,000	2,000	2,000	S	S	S	S	S
S&E-related fields	2,828,000	2,322,000	1,890,000	432,000	48,000	458,000	200,000	258,000
American Indian/Alaska Native	13,000	10,000	9,000	S	S	3,000	S	S
Asian	241,000	203,000	174,000	29,000	6,000	32,000	9,000	22,000
Black	161,000	144,000	137,000	7,000	3,000	14,000	9,000	5,000
Hispanic	152,000	135,000	124,000	11,000	3,000	15,000	6,000	9,000
White	2,210,000	1,783,000	1,403,000	379,000	34,000	393,000	175,000	218,000
Other	50,000	47,000	43,000	4,000	S	2,000	S	S
Health	1,994,000	1,621,000	1,254,000	367,000	24,000	350,000	131,000	219,000
American Indian/Alaska Native	10,000	8,000	7,000	S	S	S	S	S
Asian	177,000	150,000	129,000	21,000	2,000	25,000	7,000	18,000
Black	119,000	108,000	102,000	6,000	2,000	9,000	5,000	4,000
Hispanic	103,000	89,000	80,000	9,000	S	12,000	5,000	7,000
White	1,543,000	1,225,000	900,000	325,000	18,000	300,000	112,000	188,000
Other	43,000	41,000	37,000	4,000	S	S	S	S
Science/mathematics teacher education	237,000	185,000	158,000	27,000	5,000	48,000	35,000	12,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	8,000	7,000	7,000	S	S	S	S	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Black	12,000	7,000	7,000	S	S	4,000	4,000	S
Hispanic	13,000	11,000	11,000	S	S	S	S	S
White	203,000	158,000	132,000	26,000	4,000	41,000	30,000	11,000
Other	1,000	S	S	S	S	S	S	S
Technology/technical fields	336,000	282,000	266,000	16,000	16,000	38,000	26,000	12,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S
Asian	35,000	29,000	24,000	5,000	3,000	3,000	S	2,000
Black	19,000	18,000	18,000	S	S	S	S	S
Hispanic	19,000	18,000	17,000	S	S	S	S	S
White	256,000	212,000	202,000	10,000	10,000	34,000	25,000	9,000
Other	4,000	4,000	3,000	S	S	S	S	S
Other S&E-related fields	260,000	235,000	212,000	22,000	3,000	22,000	9,000	14,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	21,000	17,000	14,000	3,000	S	3,000	S	S
Black	12,000	11,000	11,000	S	S	S	S	S
Hispanic	18,000	16,000	16,000	S	S	S	S	S
White	208,000	187,000	169,000	19,000	2,000	18,000	8,000	10,000
Other	2,000	2,000	2,000	S	S	S	S	S
Non-S&E fields	1,238,000	1,215,000	1,100,000	115,000	4,000	19,000	8,000	12,000
American Indian/Alaska Native	8,000	7,000	7,000	S	S	S	S	S
Asian	63,000	60,000	55,000	5,000	S	S	S	S
Black	79,000	78,000	75,000	3,000	S	S	S	S
Hispanic	49,000	49,000	47,000	2,000	S	S	S	S
White	1,022,000	1,004,000	901,000	102,000	S	15,000	6,000	9,000
Other	18,000	18,000	16,000	2,000	S	S	S	S
Arts/humanities	257,000	252,000	223,000	29,000	S	4,000	S	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	10,000	10,000	8,000	S	S	S	S	S
Black	6,000	6,000	6,000	S	S	S	S	S
Hispanic	9,000	9,000	9,000	S	S	S	S	S
White	228,000	224,000	198,000	26,000	S	4,000	S	3,000
Other	3,000	3,000	3,000	S	S	S	S	S
Education, except science/mathematics teacher education	221,000	217,000	200,000	17,000	S	4,000	S	S
American Indian/Alaska Native	3,000	3,000	S	S	S	S	S	S
Asian	6,000	6,000	5,000	S	S	S	S	S
Black	12,000	12,000	11,000	S	S	S	S	S
Hispanic	9,000	9,000	9,000	S	S	S	S	S
White	188,000	184,000	169,000	15,000	S	4,000	S	S
Other	3,000	3,000	3,000	S	S	S	S	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Management/administration	478,000	468,000	436,000	32,000	S	7,000	4,000	3,000
American Indian/Alaska Native	3,000	3,000	3,000	S	S	S	S	S
Asian	37,000	34,000	32,000	2,000	S	S	S	S
Black	36,000	36,000	35,000	S	S	S	S	S
Hispanic	20,000	20,000	20,000	S	S	S	S	S
White	374,000	367,000	339,000	29,000	S	4,000	S	S
Other	8,000	7,000	7,000	S	S	S	S	S
Sales/marketing	54,000	53,000	49,000	4,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S
Black	2,000	2,000	S	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	48,000	48,000	43,000	4,000	S	S	S	S
Other	S	S	S	S	S	S	S	S
Social services/related	42,000	40,000	33,000	6,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	6,000	6,000	6,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	34,000	32,000	26,000	6,000	S	S	S	S
Other	S	S	S	S	S	S	S	S
Other non-S&E fields	187,000	185,000	159,000	25,000	S	2,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	7,000	7,000	6,000	S	S	S	S	S
Black	17,000	16,000	15,000	S	S	S	S	S
Hispanic	8,000	8,000	7,000	S	S	S	S	S
White	150,000	149,000	127,000	22,000	S	S	S	S
Other	3,000	3,000	2,000	S	S	S	S	S
Master's degrees	5,967,000	4,979,000	4,411,000	568,000	173,000	814,000	501,000	313,000
American Indian/Alaska Native	23,000	20,000	17,000	3,000	S	3,000	3,000	S
Asian	625,000	525,000	480,000	45,000	36,000	63,000	17,000	46,000
Black	345,000	292,000	275,000	17,000	11,000	41,000	29,000	12,000
Hispanic	250,000	217,000	199,000	18,000	6,000	28,000	11,000	17,000
White	4,643,000	3,856,000	3,378,000	478,000	116,000	671,000	436,000	235,000
Other	82,000	70,000	63,000	6,000	4,000	8,000	5,000	3,000
S&E fields	2,348,000	1,919,000	1,704,000	215,000	79,000	350,000	215,000	135,000
American Indian/Alaska Native	7,000	5,000	4,000	1,000	S	S	S	S
Asian	396,000	332,000	302,000	31,000	23,000	40,000	11,000	29,000
Black	102,000	83,000	77,000	7,000	3,000	15,000	9,000	6,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Hispanic	100,000	86,000	78,000	8,000	2,000	12,000	5,000	7,000
White	1,711,000	1,383,000	1,215,000	167,000	49,000	279,000	188,000	91,000
Other	34,000	29,000	28,000	2,000	2,000	3,000	2,000	1,000
Sciences	1,706,000	1,384,000	1,204,000	180,000	55,000	267,000	158,000	109,000
American Indian/Alaska Native	6,000	5,000	4,000	S	S	S	S	S
Asian	244,000	200,000	177,000	23,000	15,000	29,000	6,000	23,000
Black	87,000	71,000	64,000	7,000	3,000	14,000	8,000	6,000
Hispanic	70,000	60,000	52,000	7,000	1,000	9,000	4,000	5,000
White	1,273,000	1,028,000	886,000	142,000	34,000	211,000	137,000	74,000
Other	25,000	21,000	20,000	1,000	1,000	3,000	2,000	1,000
Biological/agricultural/environmental life sciences	261,000	209,000	186,000	23,000	5,000	46,000	28,000	18,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	34,000	25,000	23,000	2,000	S	8,000	1,000	7,000
Black	8,000	7,000	7,000	1,000	S	1,000	S	*
Hispanic	9,000	7,000	7,000	*	S	2,000	S	1,000
White	204,000	165,000	145,000	19,000	4,000	35,000	25,000	10,000
Other	4,000	3,000	3,000	S	S	S	S	S
Agricultural/food sciences	37,000	31,000	29,000	2,000	S	5,000	4,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	3,000	2,000	2,000	S	S	S	S	S
Black	2,000	2,000	2,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	28,000	24,000	22,000	2,000	S	4,000	4,000	S
Other	1,000	1,000	1,000	S	S	S	S	S
Biological sciences	185,000	148,000	130,000	18,000	4,000	33,000	17,000	16,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	29,000	20,000	18,000	2,000	S	8,000	1,000	7,000
Black	6,000	5,000	4,000	S	S	1,000	S	*
Hispanic	7,000	6,000	5,000	*	S	1,000	S	S
White	141,000	115,000	100,000	15,000	3,000	23,000	15,000	8,000
Other	2,000	1,000	1,000	S	S	S	S	S
Environmental life sciences	39,000	30,000	27,000	2,000	S	9,000	7,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	3,000	3,000	3,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	34,000	25,000	23,000	2,000	S	8,000	7,000	1,000
Other	S	S	S	S	S	S	S	S
Computer/mathematical sciences	444,000	375,000	343,000	32,000	25,000	44,000	24,000	20,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	140,000	119,000	111,000	9,000	11,000	9,000	2,000	8,000
Black	18,000	16,000	14,000	1,000	1,000	*	S	S
Hispanic	11,000	9,000	9,000	*	S	1,000	S	*
White	268,000	224,000	202,000	22,000	11,000	33,000	21,000	11,000
Other	7,000	6,000	6,000	S	S	S	S	S
Computer/information sciences	316,000	277,000	259,000	18,000	19,000	21,000	7,000	14,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	119,000	102,000	96,000	7,000	10,000	7,000	1,000	6,000
Black	13,000	11,000	11,000	S	1,000	S	S	S
Hispanic	9,000	8,000	8,000	S	S	S	S	S
White	169,000	150,000	140,000	10,000	6,000	13,000	6,000	7,000
Other	5,000	5,000	5,000	S	S	S	S	S
Mathematical sciences	128,000	98,000	84,000	15,000	6,000	23,000	17,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	21,000	17,000	15,000	2,000	1,000	2,000	S	2,000
Black	5,000	5,000	4,000	1,000	S	S	S	S
Hispanic	2,000	2,000	1,000	*	S	1,000	S	*
White	98,000	74,000	63,000	11,000	5,000	20,000	16,000	4,000
Other	1,000	1,000	1,000	S	S	S	S	S
Physical/related sciences	161,000	130,000	112,000	18,000	5,000	26,000	18,000	7,000
American Indian/Alaska Native	1,000	*	*	S	S	S	S	S
Asian	29,000	24,000	20,000	4,000	2,000	3,000	*	3,000
Black	4,000	3,000	3,000	S	S	S	S	S
Hispanic	4,000	4,000	4,000	*	S	S	S	S
White	121,000	97,000	84,000	14,000	3,000	21,000	17,000	4,000
Other	2,000	1,000	1,000	S	S	S	S	S
Chemistry, except biochemistry	59,000	46,000	40,000	6,000	2,000	11,000	8,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	18,000	16,000	14,000	2,000	1,000	2,000	*	S
Black	2,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	37,000	27,000	24,000	4,000	S	9,000	7,000	2,000
Other	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean sciences	55,000	47,000	40,000	7,000	1,000	7,000	5,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	4,000	3,000	3,000	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
White	49,000	42,000	36,000	6,000	1,000	7,000	5,000	2,000
Other	1,000	1,000	1,000	S	S	S	S	S
Physics/astronomy	40,000	31,000	27,000	4,000	2,000	6,000	4,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	7,000	5,000	4,000	1,000	1,000	2,000	S	2,000
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	29,000	24,000	21,000	3,000	2,000	4,000	3,000	S
Other	*	S	S	S	S	S	S	S
Other physical sciences	7,000	5,000	4,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	6,000	5,000	4,000	S	S	S	S	S
Other	S	S	S	S	S	S	S	S
Social/related sciences	840,000	670,000	563,000	107,000	19,000	151,000	88,000	63,000
American Indian/Alaska Native	3,000	2,000	2,000	S	S	S	S	S
Asian	41,000	31,000	23,000	8,000	1,000	8,000	3,000	5,000
Black	57,000	45,000	40,000	4,000	1,000	11,000	7,000	5,000
Hispanic	46,000	39,000	32,000	7,000	S	7,000	3,000	4,000
White	680,000	542,000	455,000	87,000	16,000	122,000	74,000	49,000
Other	13,000	11,000	10,000	1,000	S	S	S	S
Economics	89,000	72,000	64,000	8,000	1,000	16,000	13,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	13,000	10,000	9,000	1,000	S	2,000	S	1,000
Black	4,000	1,000	1,000	S	S	S	S	S
Hispanic	4,000	3,000	3,000	*	S	S	S	S
White	68,000	56,000	50,000	6,000	S	12,000	11,000	1,000
Other	*	*	S	S	S	S	S	S
Political/related sciences	118,000	97,000	88,000	8,000	4,000	18,000	11,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	7,000	6,000	5,000	S	S	1,000	S	1,000
Black	9,000	7,000	7,000	S	S	S	S	S
Hispanic	6,000	5,000	4,000	S	S	S	S	S
White	93,000	77,000	71,000	6,000	2,000	14,000	9,000	5,000
Other	1,000	1,000	1,000	S	S	S	S	S
Psychology	473,000	373,000	305,000	68,000	10,000	90,000	47,000	43,000
American Indian/Alaska Native	2,000	1,000	1,000	S	S	S	S	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Asian	11,000	9,000	5,000	4,000	S	2,000	S	2,000
Black	32,000	26,000	24,000	2,000	S	6,000	3,000	3,000
Hispanic	25,000	21,000	16,000	5,000	S	5,000	S	3,000
White	393,000	308,000	251,000	57,000	9,000	76,000	41,000	35,000
Other	9,000	8,000	8,000	S	S	S	S	S
Sociology/anthropology	66,000	52,000	41,000	11,000	2,000	12,000	7,000	5,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	4,000	3,000	1,000	1,000	S	1,000	S	S
Black	5,000	4,000	3,000	S	S	1,000	S	S
Hispanic	4,000	4,000	4,000	S	S	*	S	*
White	52,000	41,000	32,000	9,000	1,000	10,000	5,000	4,000
Other	1,000	1,000	1,000	S	S	S	S	S
Other social sciences	94,000	77,000	65,000	12,000	3,000	15,000	9,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	5,000	3,000	3,000	S	S	2,000	S	1,000
Black	8,000	6,000	5,000	2,000	S	1,000	S	S
Hispanic	6,000	6,000	6,000	S	S	S	S	S
White	73,000	60,000	51,000	9,000	3,000	11,000	7,000	4,000
Other	1,000	1,000	1,000	S	S	S	S	S
Engineering	642,000	535,000	500,000	35,000	24,000	83,000	57,000	26,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	151,000	132,000	124,000	8,000	8,000	11,000	5,000	6,000
Black	15,000	12,000	12,000	*	1,000	1,000	S	1,000
Hispanic	29,000	26,000	26,000	*	*	3,000	1,000	2,000
White	438,000	355,000	329,000	26,000	15,000	68,000	51,000	17,000
Other	8,000	8,000	8,000	S	S	S	S	S
Aerospace/related engineering	19,000	15,000	15,000	1,000	S	3,000	3,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	1,000	*	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	14,000	11,000	11,000	*	S	2,000	2,000	S
Other	1,000	1,000	1,000	S	S	S	S	S
Chemical engineering	33,000	27,000	26,000	1,000	1,000	6,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	11,000	9,000	9,000	*	S	1,000	S	*
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	19,000	15,000	14,000	S	S	5,000	3,000	2,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other	S	S	S	S	S	S	S	S
Civil/architectural engineering	96,000	86,000	77,000	9,000	2,000	8,000	7,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	19,000	16,000	15,000	1,000	1,000	2,000	1,000	S
Black	2,000	2,000	2,000	S	S	S	S	S
Hispanic	7,000	6,000	6,000	S	S	*	S	S
White	66,000	60,000	52,000	8,000	1,000	6,000	5,000	S
Other	2,000	2,000	2,000	S	S	S	S	S
Electrical/computer engineering	237,000	194,000	183,000	11,000	9,000	33,000	24,000	9,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	74,000	66,000	62,000	4,000	4,000	4,000	1,000	3,000
Black	6,000	5,000	5,000	S	*	1,000	S	S
Hispanic	7,000	7,000	7,000	S	S	S	S	S
White	147,000	114,000	107,000	7,000	5,000	28,000	22,000	6,000
Other	2,000	2,000	2,000	S	S	S	S	S
Industrial engineering	40,000	29,000	28,000	1,000	3,000	8,000	6,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	9,000	8,000	8,000	S	S	1,000	S	S
Black	2,000	2,000	2,000	S	S	S	S	S
Hispanic	4,000	3,000	3,000	S	S	S	S	S
White	26,000	17,000	16,000	1,000	2,000	7,000	5,000	S
Other	S	S	S	S	S	S	S	S
Mechanical engineering	100,000	84,000	79,000	4,000	3,000	13,000	9,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	18,000	15,000	14,000	1,000	2,000	1,000	1,000	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	3,000	3,000	3,000	S	S	S	S	S
White	75,000	63,000	60,000	3,000	1,000	11,000	8,000	3,000
Other	1,000	1,000	1,000	S	S	S	S	S
Other engineering	117,000	99,000	91,000	7,000	5,000	13,000	6,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	19,000	16,000	15,000	1,000	1,000	2,000	1,000	1,000
Black	2,000	2,000	2,000	S	S	S	S	S
Hispanic	5,000	4,000	4,000	S	S	S	S	S
White	89,000	75,000	69,000	6,000	4,000	10,000	5,000	4,000
Other	2,000	1,000	1,000	S	S	S	S	S
S&E-related fields	1,088,000	915,000	762,000	153,000	24,000	149,000	88,000	62,000
American Indian/Alaska Native	4,000	3,000	3,000	S	S	S	S	S
Asian	68,000	58,000	53,000	6,000	4,000	6,000	2,000	4,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Black	62,000	52,000	50,000	3,000	1,000	9,000	5,000	4,000
Hispanic	40,000	36,000	31,000	4,000	S	4,000	2,000	3,000
White	901,000	756,000	618,000	138,000	19,000	127,000	76,000	51,000
Other	12,000	10,000	8,000	2,000	S	S	S	S
Health	740,000	624,000	507,000	118,000	17,000	98,000	46,000	52,000
American Indian/Alaska Native	3,000	2,000	2,000	S	S	S	S	S
Asian	41,000	34,000	30,000	4,000	2,000	4,000	2,000	3,000
Black	42,000	33,000	31,000	2,000	S	7,000	4,000	4,000
Hispanic	28,000	25,000	22,000	3,000	S	3,000	S	2,000
White	618,000	522,000	415,000	107,000	14,000	82,000	39,000	43,000
Other	8,000	7,000	6,000	1,000	S	S	S	S
Science/mathematics teacher education	189,000	147,000	122,000	25,000	4,000	39,000	33,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	4,000	4,000	3,000	S	S	S	S	S
Black	13,000	11,000	11,000	S	S	1,000	1,000	S
Hispanic	5,000	4,000	4,000	S	S	S	S	S
White	164,000	125,000	104,000	22,000	4,000	35,000	30,000	5,000
Other	2,000	S	S	S	S	S	S	S
Technology/technical fields	58,000	49,000	47,000	2,000	2,000	7,000	4,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	15,000	13,000	13,000	S	1,000	1,000	S	1,000
Black	4,000	3,000	3,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	36,000	30,000	28,000	2,000	S	5,000	4,000	S
Other	1,000	S	S	S	S	S	S	S
Other S&E-related fields	102,000	95,000	87,000	8,000	2,000	5,000	4,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	7,000	7,000	7,000	S	S	S	S	S
Black	4,000	4,000	4,000	S	S	S	S	S
Hispanic	5,000	4,000	4,000	S	S	S	S	S
White	84,000	78,000	71,000	7,000	S	5,000	4,000	S
Other	1,000	1,000	S	S	S	S	S	S
Non-S&E fields	2,530,000	2,145,000	1,946,000	200,000	70,000	314,000	198,000	116,000
American Indian/Alaska Native	12,000	12,000	10,000	S	S	S	S	S
Asian	161,000	134,000	125,000	9,000	10,000	17,000	3,000	13,000
Black	181,000	157,000	149,000	8,000	7,000	17,000	15,000	2,000
Hispanic	110,000	95,000	89,000	6,000	4,000	11,000	4,000	7,000
White	2,031,000	1,717,000	1,544,000	173,000	49,000	265,000	172,000	93,000
Other	36,000	31,000	28,000	3,000	S	3,000	2,000	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Arts/humanities	113,000	97,000	77,000	20,000	4,000	12,000	9,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	12,000	10,000	9,000	S	S	S	S	S
Black	3,000	2,000	1,000	S	S	S	S	S
Hispanic	5,000	4,000	3,000	S	S	S	S	S
White	93,000	81,000	63,000	18,000	3,000	10,000	8,000	S
Other	1,000	1,000	1,000	S	S	S	S	S
Education, except science/mathematics teacher education	743,000	606,000	553,000	54,000	10,000	127,000	92,000	35,000
American Indian/Alaska Native	3,000	3,000	3,000	S	S	S	S	S
Asian	16,000	13,000	11,000	2,000	S	2,000	S	S
Black	65,000	53,000	50,000	3,000	1,000	11,000	11,000	S
Hispanic	32,000	28,000	25,000	3,000	S	4,000	2,000	2,000
White	616,000	500,000	456,000	44,000	8,000	108,000	76,000	32,000
Other	10,000	9,000	8,000	S	S	S	S	S
Management/administration	1,025,000	882,000	830,000	52,000	38,000	104,000	61,000	43,000
American Indian/Alaska Native	6,000	6,000	6,000	S	S	S	S	S
Asian	99,000	84,000	79,000	4,000	7,000	8,000	1,000	7,000
Black	58,000	51,000	50,000	1,000	3,000	4,000	3,000	S
Hispanic	44,000	39,000	38,000	1,000	3,000	2,000	S	S
White	802,000	689,000	644,000	45,000	25,000	88,000	56,000	33,000
Other	15,000	14,000	14,000	S	S	2,000	1,000	S
Sales/marketing	104,000	90,000	80,000	10,000	5,000	10,000	4,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	9,000	8,000	7,000	S	S	S	S	S
Black	5,000	4,000	3,000	S	S	S	S	S
Hispanic	5,000	3,000	3,000	S	S	S	S	S
White	85,000	73,000	66,000	7,000	4,000	8,000	3,000	5,000
Other	S	S	S	S	S	S	S	S
Social services/related	283,000	248,000	207,000	41,000	6,000	29,000	13,000	16,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	9,000	7,000	6,000	S	S	2,000	S	2,000
Black	28,000	25,000	25,000	S	S	S	S	S
Hispanic	14,000	11,000	11,000	S	S	2,000	S	S
White	228,000	200,000	161,000	38,000	5,000	23,000	11,000	12,000
Other	4,000	4,000	3,000	S	S	S	S	S
Other non-S&E fields	262,000	222,000	198,000	24,000	8,000	32,000	20,000	13,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S
Asian	15,000	13,000	12,000	S	S	1,000	S	S
Black	23,000	21,000	19,000	2,000	S	S	S	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Hispanic	11,000	9,000	9,000	S	S	S	S	S
White	206,000	174,000	154,000	20,000	4,000	28,000	18,000	10,000
Other	4,000	3,000	2,000	S	S	S	S	S
Doctorate degrees	1,026,000	885,000	802,000	84,000	21,000	119,000	95,000	25,000
American Indian/Alaska Native	2,000	1,000	1,000	*	S	*	S	*
Asian	163,000	148,000	140,000	8,000	5,000	11,000	7,000	4,000
Black	37,000	33,000	31,000	2,000	1,000	3,000	2,000	*
Hispanic	34,000	30,000	27,000	3,000	1,000	4,000	2,000	2,000
White	778,000	664,000	593,000	70,000	14,000	101,000	82,000	18,000
Other	12,000	10,000	9,000	1,000	*	2,000	1,000	*
S&E fields	796,000	690,000	625,000	65,000	18,000	88,000	69,000	19,000
American Indian/Alaska Native	1,000	1,000	1,000	*	S	*	S	*
Asian	143,000	129,000	123,000	6,000	5,000	9,000	5,000	4,000
Black	23,000	21,000	19,000	1,000	1,000	1,000	1,000	*
Hispanic	23,000	21,000	19,000	2,000	1,000	2,000	1,000	1,000
White	596,000	510,000	455,000	55,000	12,000	74,000	61,000	14,000
Other	9,000	8,000	7,000	1,000	*	1,000	*	*
Sciences	656,000	568,000	510,000	57,000	14,000	74,000	57,000	17,000
American Indian/Alaska Native	1,000	1,000	1,000	*	S	*	S	*
Asian	98,000	88,000	83,000	5,000	3,000	7,000	4,000	3,000
Black	21,000	18,000	17,000	1,000	1,000	1,000	1,000	*
Hispanic	20,000	18,000	16,000	2,000	*	2,000	1,000	1,000
White	508,000	436,000	387,000	49,000	9,000	63,000	51,000	12,000
Other	7,000	7,000	6,000	1,000	*	1,000	*	*
Biological/agricultural/environmental life sciences	221,000	191,000	178,000	12,000	6,000	25,000	19,000	6,000
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	42,000	38,000	37,000	1,000	2,000	2,000	1,000	1,000
Black	6,000	5,000	5,000	*	1,000	1,000	1,000	*
Hispanic	8,000	7,000	7,000	*	*	*	*	*
White	162,000	138,000	128,000	10,000	3,000	21,000	16,000	5,000
Other	3,000	3,000	2,000	*	S	*	S	*
Agricultural/food sciences	23,000	19,000	18,000	1,000	*	3,000	3,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	4,000	4,000	3,000	*	S	*	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	*	*	S
White	17,000	14,000	13,000	1,000	*	3,000	3,000	*
Other	*	*	*	S	S	S	S	S
Biological sciences	191,000	165,000	154,000	11,000	5,000	20,000	15,000	6,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	38,000	34,000	33,000	1,000	2,000	2,000	1,000	1,000
Black	6,000	4,000	4,000	*	1,000	1,000	1,000	*
Hispanic	6,000	6,000	5,000	*	*	*	*	*
White	139,000	119,000	110,000	9,000	3,000	17,000	13,000	4,000
Other	2,000	2,000	2,000	*	S	*	S	*
Environmental life sciences	7,000	6,000	5,000	*	S	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	*	*	S	S	S	S	S
Black	*	*	*	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	6,000	5,000	5,000	*	S	1,000	1,000	S
Other	S	S	S	S	S	S	S	S
Computer/mathematical sciences	57,000	51,000	48,000	3,000	1,000	5,000	4,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	13,000	12,000	11,000	1,000	*	1,000	*	*
Black	3,000	3,000	3,000	*	S	*	*	S
Hispanic	2,000	1,000	1,000	*	S	S	S	S
White	40,000	34,000	32,000	2,000	1,000	4,000	3,000	1,000
Other	*	*	*	S	S	S	S	S
Computer/information sciences	18,000	17,000	16,000	1,000	*	*	*	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	6,000	5,000	5,000	*	S	*	S	*
Black	1,000	1,000	*	*	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	11,000	10,000	10,000	1,000	*	*	S	*
Other	*	*	*	S	S	S	S	S
Mathematical sciences	39,000	34,000	32,000	2,000	1,000	5,000	4,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	7,000	6,000	6,000	*	S	*	*	S
Black	3,000	3,000	3,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	*	S	S	S	S
White	29,000	24,000	22,000	2,000	1,000	4,000	3,000	1,000
Other	*	*	*	S	S	S	S	S
Physical/related sciences	167,000	141,000	131,000	9,000	4,000	22,000	19,000	3,000
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	31,000	27,000	26,000	1,000	1,000	2,000	2,000	1,000
Black	2,000	2,000	2,000	*	*	S	S	S
Hispanic	3,000	3,000	3,000	*	*	*	*	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
White	129,000	107,000	99,000	8,000	3,000	19,000	17,000	2,000
Other	2,000	1,000	1,000	S	S	S	S	S
Chemistry, except biochemistry	86,000	71,000	66,000	5,000	2,000	13,000	11,000	2,000
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	18,000	16,000	15,000	*	1,000	1,000	1,000	*
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	*	S	S
White	64,000	51,000	47,000	4,000	2,000	11,000	9,000	1,000
Other	1,000	1,000	1,000	S	S	S	S	S
Earth/atmospheric/ocean sciences	21,000	18,000	17,000	1,000	*	3,000	3,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	*	S	S	S	S
Black	*	*	*	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	18,000	15,000	14,000	1,000	*	3,000	3,000	*
Other	*	*	*	S	S	S	S	S
Physics/astronomy	55,000	48,000	45,000	3,000	1,000	6,000	5,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	10,000	9,000	9,000	*	*	1,000	*	1,000
Black	1,000	*	*	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	43,000	37,000	35,000	3,000	1,000	5,000	5,000	*
Other	*	*	*	S	S	S	S	S
Other physical sciences	4,000	4,000	4,000	*	S	*	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	*	*	*	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	4,000	3,000	3,000	S	S	S	S	S
Other	S	S	S	S	S	S	S	S
Social/related sciences	211,000	185,000	153,000	32,000	3,000	22,000	16,000	6,000
American Indian/Alaska Native	1,000	*	*	S	S	S	S	S
Asian	13,000	11,000	9,000	2,000	*	2,000	1,000	1,000
Black	9,000	8,000	8,000	1,000	*	1,000	1,000	*
Hispanic	8,000	7,000	5,000	1,000	*	1,000	*	1,000
White	177,000	156,000	128,000	28,000	2,000	18,000	14,000	4,000
Other	3,000	2,000	2,000	*	*	*	*	*
Economics	28,000	24,000	21,000	2,000	*	4,000	3,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Asian	4,000	3,000	3,000	*	*	1,000	*	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	*	S	S
White	22,000	19,000	17,000	2,000	*	3,000	2,000	*
Other	*	*	*	S	S	S	S	S
Political/related sciences	24,000	21,000	18,000	2,000	*	3,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	S	S	1,000	*	S
Black	2,000	2,000	2,000	*	S	*	*	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	19,000	17,000	15,000	2,000	*	2,000	2,000	*
Other	*	*	*	S	S	S	S	S
Psychology	108,000	96,000	75,000	22,000	2,000	10,000	6,000	3,000
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	3,000	3,000	3,000	1,000	S	*	S	*
Black	4,000	4,000	3,000	*	S	*	S	S
Hispanic	4,000	3,000	2,000	1,000	S	1,000	S	1,000
White	95,000	85,000	65,000	20,000	2,000	9,000	6,000	3,000
Other	1,000	1,000	1,000	*	S	*	S	S
Sociology/anthropology	31,000	27,000	23,000	4,000	1,000	3,000	3,000	1,000
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	1,000	1,000	1,000	*	S	*	S	*
Black	1,000	1,000	1,000	*	S	*	*	S
Hispanic	1,000	1,000	1,000	*	S	*	S	S
White	26,000	22,000	19,000	3,000	1,000	3,000	3,000	*
Other	*	*	*	S	S	S	S	S
Other social sciences	21,000	18,000	16,000	2,000	*	2,000	2,000	1,000
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	3,000	3,000	2,000	1,000	S	*	S	S
Black	1,000	1,000	1,000	*	S	*	*	S
Hispanic	1,000	1,000	1,000	*	S	S	S	S
White	16,000	13,000	12,000	1,000	*	2,000	2,000	1,000
Other	*	*	*	S	S	S	S	S
Engineering	140,000	122,000	115,000	7,000	4,000	14,000	11,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	45,000	41,000	40,000	1,000	2,000	2,000	2,000	1,000
Black	2,000	2,000	2,000	*	*	S	S	S
Hispanic	3,000	3,000	3,000	*	S	*	S	*
White	88,000	75,000	69,000	6,000	2,000	11,000	9,000	2,000

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other	1,000	1,000	1,000	S	S	S	S	S
Aerospace/related engineering	7,000	6,000	6,000	1,000	S	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	S	S	S	S
Black	*	*	*	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	4,000	4,000	3,000	*	S	1,000	1,000	S
Other	S	S	S	S	S	S	S	S
Chemical engineering	19,000	16,000	15,000	1,000	1,000	2,000	2,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	6,000	5,000	5,000	*	*	1,000	*	S
Black	*	*	*	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	12,000	10,000	9,000	1,000	*	2,000	2,000	*
Other	*	*	*	S	S	S	S	S
Civil/architectural engineering	12,000	11,000	10,000	1,000	*	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	3,000	3,000	3,000	S	S	*	*	S
Black	*	*	*	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	8,000	7,000	6,000	*	S	1,000	1,000	S
Other	*	*	*	S	S	S	S	S
Electrical/computer engineering	41,000	36,000	34,000	2,000	2,000	3,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	14,000	13,000	13,000	*	1,000	*	*	*
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	25,000	21,000	20,000	1,000	1,000	3,000	2,000	*
Other	*	*	*	S	S	S	S	S
Industrial engineering	4,000	4,000	4,000	S	S	*	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	*	*	*	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	2,000	2,000	2,000	S	S	*	S	S
Other	S	S	S	S	S	S	S	S
Mechanical engineering	17,000	15,000	15,000	1,000	1,000	2,000	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	6,000	6,000	6,000	S	*	*	*	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Black	*	*	*	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	10,000	9,000	8,000	1,000	*	1,000	1,000	S
Other	*	*	*	S	S	S	S	S
Other engineering	40,000	34,000	32,000	2,000	1,000	5,000	4,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	12,000	10,000	10,000	*	*	1,000	1,000	S
Black	1,000	*	*	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	27,000	22,000	20,000	2,000	1,000	4,000	3,000	1,000
Other	*	*	*	S	S	S	S	S
S&E-related fields	69,000	59,000	54,000	5,000	1,000	10,000	8,000	2,000
American Indian/Alaska Native	*	*	S	S	S	S	S	S
Asian	11,000	10,000	9,000	1,000	S	1,000	1,000	S
Black	3,000	3,000	3,000	*	S	*	*	S
Hispanic	4,000	3,000	3,000	1,000	S	*	*	S
White	51,000	43,000	39,000	3,000	*	8,000	7,000	1,000
Other	1,000	*	*	S	S	S	S	S
Health	46,000	41,000	37,000	4,000	1,000	5,000	4,000	1,000
American Indian/Alaska Native	*	*	S	S	S	S	S	S
Asian	9,000	8,000	8,000	*	S	1,000	1,000	S
Black	2,000	2,000	2,000	*	S	*	S	S
Hispanic	3,000	3,000	2,000	1,000	S	*	*	S
White	31,000	27,000	25,000	3,000	*	4,000	3,000	1,000
Other	*	*	*	S	S	S	S	S
Science/mathematics teacher education	12,000	9,000	8,000	1,000	S	4,000	4,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	11,000	8,000	7,000	S	S	3,000	3,000	S
Other	S	S	S	S	S	S	S	S
Technology/technical fields	4,000	3,000	3,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	2,000	2,000	2,000	S	S	S	S	S
Other	S	S	S	S	S	S	S	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other S&E-related fields	7,000	7,000	6,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	6,000	6,000	6,000	S	S	S	S	S
Other	S	S	S	S	S	S	S	S
Non-S&E fields	160,000	136,000	123,000	14,000	2,000	22,000	18,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	10,000	9,000	8,000	S	S	S	S	S
Black	11,000	9,000	9,000	S	S	1,000	1,000	S
Hispanic	7,000	6,000	5,000	S	S	1,000	S	S
White	131,000	111,000	99,000	12,000	2,000	18,000	15,000	3,000
Other	2,000	1,000	1,000	S	S	S	S	S
Arts/humanities	20,000	17,000	14,000	2,000	S	3,000	2,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	17,000	15,000	13,000	2,000	S	2,000	2,000	S
Other	S	S	S	S	S	S	S	S
Education, except science/mathematics teacher education	76,000	64,000	58,000	6,000	1,000	11,000	10,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	6,000	5,000	5,000	S	S	1,000	1,000	S
Hispanic	4,000	3,000	3,000	S	S	S	S	S
White	64,000	53,000	48,000	6,000	S	10,000	8,000	S
Other	1,000	1,000	1,000	S	S	S	S	S
Management/administration	17,000	14,000	13,000	1,000	S	3,000	3,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	5,000	4,000	4,000	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	11,000	9,000	9,000	S	S	2,000	S	S
Other	S	S	S	S	S	S	S	S
Sales/marketing	2,000	2,000	2,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	S	S	S	S	S	S	S	S

TABLE 9. U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity [a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Hispanic	S	S	S	S	S	S	S	S
White	1,000	1,000	1,000	S	S	S	S	S
Other	S	S	S	S	S	S	S	S
Social services/related	19,000	19,000	17,000	1,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	3,000	3,000	3,000	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	15,000	15,000	14,000	1,000	S	S	S	S
Other	S	S	S	S	S	S	S	S
Other non-S&E fields	26,000	21,000	19,000	3,000	S	5,000	3,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S
White	22,000	18,000	15,000	3,000	S	4,000	S	S
Other	S	S	S	S	S	S	S	S

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E =Science and engineering.

[a] "Other" includes Native Hawaiian/Other Pacific Islander and non-Hispanic respondents reporting 2 or more races.

[b] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
All degree levels and fields[a]	21,647,000	18,021,000	15,978,000	2,043,000	595,000	3,031,000	1,613,000	1,419,000
<30	2,492,000	2,152,000	1,918,000	234,000	83,000	257,000	S	257,000
30–39	5,617,000	5,004,000	4,482,000	522,000	150,000	462,000	4,000	458,000
40–49	5,873,000	5,316,000	4,776,000	539,000	154,000	403,000	30,000	373,000
50–59	4,772,000	4,177,000	3,797,000	381,000	134,000	461,000	230,000	231,000
60+	2,894,000	1,372,000	1,005,000	367,000	74,000	1,448,000	1,349,000	99,000
S&E fields	11,880,000	9,579,000	8,610,000	969,000	414,000	1,886,000	973,000	913,000
<30	1,772,000	1,491,000	1,315,000	176,000	68,000	213,000	S	213,000
30–39	3,124,000	2,725,000	2,511,000	214,000	101,000	298,000	2,000	295,000
40–49	2,990,000	2,661,000	2,425,000	236,000	105,000	224,000	21,000	204,000
50–59	2,379,000	2,020,000	1,856,000	164,000	91,000	268,000	133,000	135,000
60+	1,615,000	683,000	504,000	179,000	49,000	883,000	817,000	66,000
Sciences	9,048,000	7,245,000	6,404,000	842,000	308,000	1,494,000	667,000	828,000
<30	1,462,000	1,209,000	1,053,000	156,000	56,000	197,000	S	197,000
30–39	2,380,000	2,028,000	1,834,000	193,000	80,000	272,000	2,000	270,000
40–49	2,211,000	1,940,000	1,731,000	209,000	74,000	197,000	18,000	179,000
50–59	1,895,000	1,593,000	1,443,000	150,000	68,000	234,000	107,000	127,000
60+	1,100,000	475,000	342,000	133,000	31,000	595,000	539,000	55,000
Biological/agricultural/environmental life sciences	1,851,000	1,481,000	1,331,000	150,000	50,000	320,000	132,000	188,000
<30	373,000	285,000	249,000	35,000	10,000	78,000	S	78,000
30–39	431,000	366,000	335,000	31,000	12,000	54,000	S	54,000
40–49	477,000	434,000	391,000	42,000	12,000	32,000	1,000	31,000
50–59	355,000	311,000	290,000	21,000	12,000	31,000	14,000	17,000
60+	215,000	86,000	65,000	20,000	4,000	125,000	117,000	9,000
Computer/mathematical sciences	1,703,000	1,437,000	1,318,000	119,000	75,000	191,000	83,000	108,000
<30	247,000	222,000	200,000	22,000	8,000	17,000	S	17,000
30–39	542,000	481,000	443,000	39,000	23,000	37,000	S	37,000
40–49	488,000	437,000	411,000	26,000	24,000	27,000	2,000	26,000
50–59	291,000	235,000	217,000	18,000	15,000	41,000	17,000	24,000
60+	135,000	62,000	48,000	14,000	4,000	69,000	64,000	4,000
Physical/related sciences	876,000	694,000	631,000	63,000	27,000	155,000	106,000	50,000
<30	90,000	78,000	69,000	9,000	2,000	10,000	S	10,000
30–39	182,000	159,000	153,000	7,000	5,000	18,000	S	18,000
40–49	235,000	214,000	199,000	15,000	6,000	14,000	S	13,000
50–59	185,000	166,000	152,000	14,000	6,000	12,000	8,000	4,000
60+	185,000	76,000	58,000	18,000	7,000	102,000	96,000	6,000
Social/related sciences	4,618,000	3,633,000	3,124,000	510,000	157,000	828,000	346,000	482,000
<30	752,000	624,000	535,000	90,000	36,000	92,000	S	92,000
30–39	1,225,000	1,021,000	904,000	117,000	40,000	163,000	S	162,000

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
40–49	1,011,000	855,000	730,000	126,000	32,000	124,000	14,000	109,000
50–59	1,065,000	881,000	784,000	97,000	33,000	150,000	68,000	82,000
60+	565,000	251,000	171,000	80,000	16,000	298,000	262,000	36,000
Engineering	2,832,000	2,334,000	2,207,000	127,000	106,000	392,000	307,000	85,000
<30	310,000	282,000	262,000	20,000	12,000	16,000	S	16,000
30–39	744,000	697,000	676,000	20,000	22,000	26,000	S	25,000
40–49	779,000	721,000	694,000	27,000	31,000	27,000	2,000	25,000
50–59	484,000	426,000	412,000	14,000	23,000	34,000	26,000	8,000
60+	515,000	208,000	162,000	46,000	18,000	289,000	278,000	11,000
S&E-related fields	5,203,000	4,383,000	3,679,000	704,000	84,000	736,000	386,000	351,000
<30	442,000	403,000	366,000	37,000	7,000	32,000	S	32,000
30–39	1,325,000	1,193,000	968,000	226,000	25,000	107,000	S	105,000
40–49	1,584,000	1,430,000	1,211,000	218,000	24,000	130,000	5,000	125,000
50–59	1,147,000	1,018,000	890,000	128,000	16,000	113,000	49,000	63,000
60+	706,000	339,000	244,000	95,000	13,000	354,000	330,000	25,000
Non-S&E fields	4,564,000	4,059,000	3,689,000	370,000	97,000	409,000	254,000	155,000
<30	279,000	258,000	237,000	21,000	8,000	13,000	S	13,000
30–39	1,168,000	1,086,000	1,003,000	83,000	24,000	58,000	S	58,000
40–49	1,299,000	1,225,000	1,140,000	85,000	25,000	49,000	4,000	44,000
50–59	1,246,000	1,140,000	1,051,000	89,000	27,000	79,000	48,000	32,000
60+	573,000	350,000	257,000	93,000	13,000	210,000	202,000	8,000
Bachelor's degrees	12,782,000	10,490,000	9,259,000	1,231,000	368,000	1,924,000	897,000	1,027,000
<30	1,915,000	1,633,000	1,447,000	186,000	64,000	217,000	S	217,000
30–39	3,477,000	3,064,000	2,720,000	344,000	91,000	322,000	4,000	319,000
40–49	3,449,000	3,071,000	2,725,000	346,000	96,000	283,000	22,000	261,000
50–59	2,490,000	2,135,000	1,933,000	201,000	76,000	280,000	119,000	161,000
60+	1,450,000	587,000	434,000	154,000	42,000	821,000	752,000	69,000
S&E fields	8,716,000	6,953,000	6,269,000	684,000	317,000	1,447,000	689,000	758,000
<30	1,553,000	1,298,000	1,152,000	146,000	60,000	195,000	S	195,000
30–39	2,347,000	2,030,000	1,872,000	158,000	77,000	241,000	S	238,000
40–49	2,153,000	1,890,000	1,714,000	177,000	82,000	181,000	18,000	163,000
50–59	1,622,000	1,346,000	1,241,000	105,000	65,000	211,000	98,000	112,000
60+	1,041,000	389,000	291,000	98,000	33,000	620,000	570,000	49,000
Sciences	6,666,000	5,276,000	4,677,000	599,000	239,000	1,152,000	451,000	701,000
<30	1,309,000	1,075,000	941,000	134,000	51,000	183,000	S	183,000
30–39	1,814,000	1,526,000	1,383,000	143,000	62,000	226,000	S	225,000
40–49	1,592,000	1,376,000	1,216,000	160,000	56,000	160,000	16,000	144,000
50–59	1,289,000	1,052,000	955,000	97,000	50,000	187,000	80,000	107,000
60+	662,000	247,000	181,000	65,000	20,000	396,000	354,000	42,000

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Biological/agricultural/environmental life sciences	1,369,000	1,082,000	967,000	115,000	39,000	249,000	85,000	164,000
<30	341,000	258,000	226,000	32,000	9,000	74,000	S	74,000
30–39	311,000	260,000	237,000	22,000	8,000	43,000	S	43,000
40–49	347,000	310,000	276,000	35,000	10,000	27,000	S	26,000
50–59	241,000	208,000	195,000	14,000	10,000	23,000	8,000	15,000
60+	130,000	46,000	34,000	12,000	2,000	82,000	77,000	5,000
Computer/mathematical sciences	1,202,000	1,010,000	927,000	83,000	49,000	143,000	55,000	88,000
<30	203,000	183,000	167,000	16,000	6,000	14,000	S	14,000
30–39	391,000	347,000	318,000	28,000	14,000	30,000	S	30,000
40–49	343,000	304,000	284,000	20,000	17,000	22,000	S	21,000
50–59	180,000	141,000	131,000	10,000	8,000	31,000	11,000	20,000
60+	85,000	36,000	27,000	9,000	3,000	45,000	42,000	3,000
Physical/related sciences	548,000	423,000	387,000	36,000	17,000	107,000	68,000	39,000
<30	76,000	66,000	59,000	7,000	2,000	8,000	S	8,000
30–39	114,000	96,000	93,000	4,000	4,000	14,000	S	14,000
40–49	146,000	132,000	122,000	10,000	4,000	11,000	S	10,000
50–59	109,000	96,000	88,000	9,000	4,000	8,000	6,000	2,000
60+	103,000	33,000	27,000	6,000	4,000	66,000	61,000	5,000
Social/related sciences	3,547,000	2,760,000	2,395,000	365,000	134,000	653,000	242,000	411,000
<30	688,000	568,000	490,000	78,000	33,000	86,000	S	86,000
30–39	998,000	823,000	735,000	88,000	36,000	139,000	S	137,000
40–49	757,000	630,000	534,000	96,000	26,000	101,000	12,000	88,000
50–59	760,000	607,000	542,000	65,000	28,000	125,000	55,000	71,000
60+	345,000	132,000	93,000	38,000	11,000	202,000	173,000	29,000
Engineering	2,050,000	1,677,000	1,592,000	85,000	78,000	295,000	238,000	57,000
<30	244,000	223,000	211,000	12,000	9,000	12,000	S	12,000
30–39	533,000	503,000	489,000	15,000	15,000	15,000	S	14,000
40–49	561,000	514,000	498,000	17,000	25,000	21,000	S	19,000
50–59	332,000	294,000	286,000	8,000	15,000	23,000	18,000	5,000
60+	379,000	142,000	109,000	33,000	13,000	224,000	217,000	7,000
S&E-related fields	2,828,000	2,322,000	1,890,000	432,000	48,000	458,000	200,000	258,000
<30	270,000	244,000	215,000	30,000	4,000	22,000	S	22,000
30–39	756,000	663,000	511,000	152,000	13,000	80,000	S	78,000
40–49	897,000	784,000	642,000	142,000	13,000	99,000	4,000	95,000
50–59	573,000	501,000	431,000	70,000	9,000	63,000	20,000	43,000
60+	332,000	130,000	92,000	39,000	8,000	194,000	175,000	19,000
Non-S&E fields	1,238,000	1,215,000	1,100,000	115,000	4,000	19,000	8,000	12,000
<30	92,000	91,000	80,000	10,000	S	S	S	S

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
30–39	375,000	371,000	337,000	34,000	S	S	S	S
40–49	400,000	396,000	369,000	27,000	S	3,000	S	S
50–59	296,000	288,000	261,000	27,000	S	6,000	S	6,000
60+	77,000	69,000	52,000	17,000	S	8,000	7,000	S
Master's degrees	5,967,000	4,979,000	4,411,000	568,000	173,000	814,000	501,000	313,000
<30	432,000	386,000	343,000	43,000	14,000	32,000	S	32,000
30–39	1,467,000	1,303,000	1,175,000	128,000	46,000	118,000	S	118,000
40–49	1,611,000	1,471,000	1,337,000	134,000	44,000	96,000	6,000	90,000
50–59	1,555,000	1,370,000	1,241,000	129,000	46,000	138,000	86,000	53,000
60+	902,000	449,000	315,000	134,000	23,000	430,000	409,000	20,000
S&E fields	2,348,000	1,919,000	1,704,000	215,000	79,000	350,000	215,000	135,000
<30	202,000	178,000	148,000	30,000	8,000	17,000	S	17,000
30–39	593,000	522,000	477,000	45,000	20,000	52,000	S	52,000
40–49	612,000	556,000	512,000	44,000	19,000	37,000	2,000	35,000
50–59	550,000	481,000	440,000	42,000	20,000	49,000	30,000	19,000
60+	390,000	182,000	128,000	55,000	11,000	196,000	183,000	13,000
Sciences	1,706,000	1,384,000	1,204,000	180,000	55,000	267,000	158,000	109,000
<30	139,000	122,000	99,000	22,000	5,000	13,000	S	13,000
30–39	419,000	362,000	322,000	40,000	15,000	41,000	S	41,000
40–49	434,000	389,000	353,000	35,000	15,000	31,000	2,000	29,000
50–59	428,000	376,000	338,000	38,000	13,000	39,000	23,000	16,000
60+	287,000	136,000	91,000	45,000	8,000	143,000	133,000	10,000
Biological/agricultural/environmental life sciences	261,000	209,000	186,000	23,000	5,000	46,000	28,000	18,000
<30	26,000	22,000	19,000	3,000	1,000	3,000	S	3,000
30–39	63,000	54,000	48,000	6,000	1,000	8,000	S	8,000
40–49	64,000	60,000	55,000	5,000	1,000	3,000	S	3,000
50–59	64,000	57,000	52,000	5,000	S	7,000	5,000	1,000
60+	42,000	16,000	13,000	3,000	S	25,000	23,000	S
Computer/mathematical sciences	444,000	375,000	343,000	32,000	25,000	44,000	24,000	20,000
<30	40,000	36,000	30,000	6,000	1,000	3,000	S	3,000
30–39	136,000	120,000	111,000	10,000	9,000	7,000	S	7,000
40–49	130,000	118,000	113,000	5,000	7,000	5,000	S	4,000
50–59	99,000	83,000	75,000	7,000	7,000	9,000	6,000	4,000
60+	39,000	18,000	14,000	4,000	1,000	20,000	18,000	S
Physical/related sciences	161,000	130,000	112,000	18,000	5,000	26,000	18,000	7,000
<30	11,000	10,000	8,000	2,000	1,000	1,000	S	1,000
30–39	31,000	27,000	26,000	2,000	1,000	3,000	S	3,000
40–49	44,000	40,000	36,000	4,000	2,000	2,000	S	2,000
50–59	37,000	35,000	31,000	4,000	1,000	2,000	1,000	S

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
60+	37,000	18,000	11,000	7,000	S	18,000	17,000	S
Social/related sciences	840,000	670,000	563,000	107,000	19,000	151,000	88,000	63,000
<30	62,000	54,000	43,000	12,000	2,000	5,000	S	5,000
30–39	188,000	161,000	138,000	23,000	4,000	24,000	S	23,000
40–49	196,000	170,000	149,000	21,000	5,000	21,000	S	19,000
50–59	227,000	202,000	181,000	22,000	4,000	21,000	11,000	10,000
60+	168,000	84,000	53,000	31,000	4,000	80,000	74,000	6,000
Engineering	642,000	535,000	500,000	35,000	24,000	83,000	57,000	26,000
<30	63,000	56,000	49,000	7,000	3,000	4,000	S	4,000
30–39	175,000	159,000	155,000	5,000	5,000	10,000	S	10,000
40–49	178,000	168,000	158,000	9,000	5,000	6,000	S	6,000
50–59	123,000	106,000	101,000	4,000	8,000	10,000	7,000	3,000
60+	103,000	46,000	37,000	10,000	4,000	53,000	50,000	3,000
S&E-related fields	1,088,000	915,000	762,000	153,000	24,000	149,000	88,000	62,000
<30	97,000	89,000	82,000	6,000	2,000	6,000	S	6,000
30–39	264,000	235,000	191,000	44,000	9,000	20,000	S	20,000
40–49	303,000	276,000	233,000	42,000	7,000	21,000	S	21,000
50–59	279,000	240,000	205,000	36,000	6,000	33,000	21,000	12,000
60+	145,000	75,000	51,000	24,000	S	69,000	66,000	S
Non-S&E fields	2,530,000	2,145,000	1,946,000	200,000	70,000	314,000	198,000	116,000
<30	133,000	120,000	113,000	7,000	5,000	9,000	S	9,000
30–39	610,000	546,000	507,000	39,000	17,000	46,000	S	46,000
40–49	695,000	639,000	592,000	47,000	17,000	39,000	4,000	35,000
50–59	725,000	649,000	597,000	51,000	20,000	56,000	35,000	22,000
60+	367,000	192,000	136,000	55,000	11,000	164,000	160,000	5,000
Doctorate degrees	1,026,000	885,000	802,000	84,000	21,000	119,000	95,000	25,000
<30	19,000	17,000	17,000	*	*	2,000	S	2,000
30–39	211,000	200,000	189,000	11,000	4,000	6,000	S	6,000
40–49	270,000	257,000	241,000	16,000	5,000	8,000	*	7,000
50–59	282,000	261,000	241,000	20,000	6,000	14,000	10,000	4,000
60+	245,000	149,000	113,000	36,000	6,000	90,000	84,000	5,000
S&E fields	796,000	690,000	625,000	65,000	18,000	88,000	69,000	19,000
<30	17,000	15,000	15,000	*	S	2,000	S	2,000
30–39	180,000	171,000	161,000	10,000	4,000	5,000	S	5,000
40–49	220,000	210,000	196,000	14,000	4,000	6,000	*	5,000
50–59	199,000	185,000	169,000	16,000	5,000	9,000	5,000	4,000
60+	180,000	109,000	84,000	25,000	5,000	67,000	63,000	4,000
Sciences	656,000	568,000	510,000	57,000	14,000	74,000	57,000	17,000

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
<30	14,000	12,000	12,000	*	S	1,000	S	1,000
30–39	145,000	137,000	128,000	9,000	3,000	4,000	S	4,000
40–49	179,000	171,000	159,000	12,000	3,000	5,000	*	5,000
50–59	170,000	159,000	144,000	15,000	4,000	8,000	4,000	3,000
60+	147,000	89,000	68,000	21,000	3,000	55,000	53,000	3,000
Biological/agricultural/environmental life sciences	221,000	191,000	178,000	12,000	6,000	25,000	19,000	6,000
<30	5,000	5,000	5,000	S	S	*	S	*
30–39	57,000	52,000	50,000	2,000	2,000	2,000	S	2,000
40–49	66,000	63,000	61,000	3,000	1,000	2,000	S	2,000
50–59	50,000	46,000	44,000	3,000	2,000	2,000	1,000	1,000
60+	43,000	24,000	19,000	5,000	1,000	18,000	17,000	1,000
Computer/mathematical sciences	57,000	51,000	48,000	3,000	1,000	5,000	4,000	1,000
<30	3,000	3,000	3,000	S	S	S	S	S
30–39	15,000	15,000	14,000	1,000	*	*	S	*
40–49	15,000	15,000	14,000	1,000	*	*	S	*
50–59	12,000	11,000	10,000	1,000	*	1,000	*	*
60+	11,000	7,000	6,000	1,000	*	4,000	4,000	*
Physical/related sciences	167,000	141,000	131,000	9,000	4,000	22,000	19,000	3,000
<30	2,000	2,000	2,000	S	S	S	S	S
30–39	36,000	35,000	34,000	1,000	*	1,000	S	1,000
40–49	45,000	42,000	41,000	1,000	1,000	1,000	S	1,000
50–59	38,000	35,000	34,000	2,000	1,000	2,000	1,000	1,000
60+	45,000	25,000	20,000	5,000	1,000	18,000	18,000	1,000
Social/related sciences	211,000	185,000	153,000	32,000	3,000	22,000	16,000	6,000
<30	3,000	2,000	2,000	S	S	S	S	S
30–39	36,000	35,000	29,000	5,000	1,000	1,000	S	1,000
40–49	53,000	51,000	43,000	8,000	1,000	1,000	S	1,000
50–59	70,000	66,000	56,000	9,000	1,000	4,000	2,000	2,000
60+	48,000	32,000	23,000	10,000	1,000	15,000	14,000	1,000
Engineering	140,000	122,000	115,000	7,000	4,000	14,000	11,000	2,000
<30	3,000	3,000	3,000	S	S	S	S	S
30–39	36,000	34,000	33,000	1,000	1,000	1,000	S	1,000
40–49	40,000	39,000	38,000	1,000	1,000	*	S	*
50–59	28,000	27,000	25,000	1,000	1,000	1,000	1,000	*
60+	33,000	20,000	16,000	4,000	2,000	11,000	11,000	1,000
S&E-related fields	69,000	59,000	54,000	5,000	1,000	10,000	8,000	2,000
<30	2,000	2,000	2,000	S	S	S	S	S
30–39	10,000	10,000	10,000	1,000	*	S	S	S
40–49	20,000	19,000	18,000	1,000	S	1,000	S	1,000

TABLE 10. U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
50–59	20,000	19,000	18,000	1,000	*	1,000	1,000	*
60+	16,000	8,000	6,000	2,000	*	8,000	7,000	1,000
Non-S&E fields	160,000	136,000	123,000	14,000	2,000	22,000	18,000	4,000
<30	S	S	S	S	S	S	S	S
30–39	20,000	19,000	19,000	S	S	S	S	S
40–49	30,000	28,000	27,000	S	S	S	S	S
50–59	62,000	56,000	54,000	3,000	1,000	5,000	4,000	S
60+	48,000	33,000	23,000	9,000	S	15,000	14,000	S

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 11. U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a]					
		American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
All degree levels and fields[b]	21,647,000	91,000	2,046,000	1,198,000	1,094,000	16,867,000	351,000
Male	12,129,000	47,000	1,149,000	510,000	569,000	9,664,000	191,000
Female	9,518,000	45,000	897,000	688,000	525,000	7,203,000	161,000
S&E fields	11,880,000	49,000	1,301,000	633,000	622,000	9,069,000	207,000
Male	7,330,000	26,000	802,000	298,000	340,000	5,742,000	122,000
Female	4,549,000	22,000	499,000	335,000	282,000	3,328,000	85,000
Sciences	9,048,000	42,000	860,000	550,000	471,000	6,962,000	163,000
Male	4,834,000	21,000	433,000	234,000	215,000	3,847,000	85,000
Female	4,214,000	21,000	427,000	316,000	256,000	3,114,000	78,000
Biological/agricultural/environmental life sciences	1,851,000	8,000	190,000	73,000	95,000	1,453,000	32,000
Male	1,007,000	5,000	86,000	27,000	46,000	825,000	18,000
Female	844,000	3,000	103,000	46,000	49,000	628,000	14,000
Agricultural/food sciences	292,000	1,000	18,000	6,000	12,000	248,000	6,000
Male	191,000	S	12,000	4,000	8,000	163,000	4,000
Female	101,000	S	7,000	2,000	4,000	86,000	2,000
Biological sciences	1,374,000	5,000	164,000	65,000	80,000	1,038,000	22,000
Male	687,000	3,000	71,000	22,000	35,000	544,000	11,000
Female	687,000	2,000	92,000	42,000	45,000	495,000	11,000
Environmental life sciences	185,000	2,000	8,000	2,000	4,000	166,000	3,000
Male	129,000	1,000	3,000	1,000	4,000	118,000	2,000
Female	56,000	1,000	4,000	1,000	1,000	48,000	1,000
Computer/mathematical sciences	1,703,000	10,000	298,000	105,000	74,000	1,188,000	28,000
Male	1,100,000	5,000	175,000	57,000	47,000	795,000	20,000
Female	603,000	4,000	123,000	48,000	27,000	393,000	8,000
Computer/information sciences	1,087,000	9,000	232,000	72,000	57,000	697,000	20,000
Male	728,000	5,000	141,000	38,000	35,000	495,000	14,000
Female	359,000	4,000	91,000	34,000	21,000	202,000	6,000
Mathematical sciences	616,000	1,000	66,000	34,000	18,000	491,000	8,000
Male	372,000	S	34,000	20,000	12,000	300,000	6,000
Female	244,000	S	32,000	14,000	5,000	191,000	2,000
Physical/related sciences	876,000	3,000	118,000	25,000	34,000	682,000	13,000
Male	637,000	2,000	74,000	15,000	20,000	521,000	6,000
Female	239,000	1,000	45,000	10,000	15,000	161,000	7,000
Chemistry, except biochemistry	421,000	1,000	73,000	16,000	18,000	305,000	7,000
Male	277,000	*	42,000	9,000	10,000	212,000	3,000
Female	144,000	1,000	31,000	7,000	8,000	93,000	5,000
Earth/atmospheric/ocean sciences	211,000	*	8,000	2,000	6,000	193,000	2,000
Male	167,000	*	6,000	1,000	4,000	155,000	1,000
Female	43,000	S	2,000	S	2,000	38,000	*
Physics/astronomy	187,000	1,000	34,000	4,000	6,000	141,000	2,000
Male	160,000	S	25,000	3,000	5,000	125,000	2,000
Female	27,000	*	10,000	1,000	1,000	16,000	*
Other physical sciences	57,000	S	3,000	4,000	4,000	43,000	S
Male	33,000	S	1,000	2,000	*	29,000	S
Female	24,000	S	2,000	2,000	4,000	15,000	S
Social/related sciences	4,618,000	22,000	254,000	346,000	267,000	3,639,000	90,000
Male	2,090,000	9,000	98,000	134,000	102,000	1,706,000	41,000

TABLE 11. U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a] American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Female	2,528,000	13,000	156,000	212,000	165,000	1,933,000	49,000
Economics	680,000	S	92,000	25,000	29,000	525,000	8,000
Male	493,000	S	49,000	19,000	19,000	401,000	5,000
Female	187,000	S	43,000	5,000	11,000	124,000	3,000
Political/related sciences	830,000	5,000	42,000	66,000	48,000	652,000	17,000
Male	503,000	2,000	18,000	35,000	25,000	412,000	11,000
Female	327,000	3,000	23,000	31,000	23,000	240,000	6,000
Psychology	1,734,000	6,000	63,000	129,000	108,000	1,391,000	37,000
Male	534,000	3,000	16,000	33,000	28,000	442,000	12,000
Female	1,200,000	4,000	47,000	96,000	79,000	950,000	24,000
Sociology/anthropology	895,000	7,000	29,000	88,000	44,000	708,000	19,000
Male	326,000	3,000	6,000	29,000	17,000	262,000	9,000
Female	569,000	4,000	23,000	59,000	26,000	447,000	10,000
Other social sciences	479,000	4,000	28,000	38,000	38,000	362,000	9,000
Male	233,000	2,000	8,000	17,000	13,000	190,000	3,000
Female	246,000	2,000	20,000	21,000	26,000	171,000	5,000
Engineering	2,832,000	6,000	441,000	83,000	151,000	2,107,000	44,000
Male	2,496,000	5,000	369,000	65,000	125,000	1,894,000	37,000
Female	336,000	1,000	71,000	18,000	25,000	213,000	7,000
Aerospace/related engineering	100,000	1,000	8,000	2,000	4,000	83,000	3,000
Male	92,000	S	6,000	1,000	4,000	76,000	3,000
Female	9,000	S	1,000	*	*	7,000	S
Chemical engineering	197,000	2,000	35,000	5,000	11,000	142,000	3,000
Male	156,000	1,000	28,000	2,000	7,000	116,000	1,000
Female	41,000	S	7,000	2,000	4,000	26,000	2,000
Civil/architectural engineering	443,000	1,000	53,000	13,000	33,000	332,000	11,000
Male	393,000	1,000	45,000	11,000	29,000	297,000	10,000
Female	51,000	S	8,000	2,000	5,000	35,000	1,000
Electrical/computer engineering	905,000	1,000	203,000	38,000	43,000	605,000	16,000
Male	806,000	1,000	169,000	31,000	35,000	555,000	14,000
Female	100,000	S	33,000	7,000	7,000	50,000	2,000
Industrial engineering	181,000	S	20,000	6,000	16,000	138,000	1,000
Male	151,000	S	15,000	4,000	13,000	118,000	1,000
Female	31,000	S	5,000	3,000	2,000	21,000	S
Mechanical engineering	597,000	2,000	70,000	12,000	23,000	485,000	6,000
Male	551,000	1,000	66,000	11,000	20,000	447,000	5,000
Female	46,000	S	4,000	1,000	2,000	37,000	1,000
Other engineering	407,000	1,000	52,000	7,000	21,000	322,000	4,000
Male	348,000	S	39,000	5,000	16,000	284,000	3,000
Female	59,000	S	13,000	3,000	5,000	38,000	1,000
S&E-related fields	5,203,000	21,000	484,000	270,000	278,000	4,071,000	80,000
Male	2,191,000	7,000	208,000	93,000	127,000	1,725,000	33,000
Female	3,012,000	14,000	276,000	177,000	151,000	2,346,000	47,000
Health	3,998,000	17,000	392,000	206,000	216,000	3,101,000	67,000
Male	1,380,000	4,000	144,000	52,000	86,000	1,070,000	24,000
Female	2,619,000	12,000	248,000	155,000	130,000	2,031,000	43,000
Science/mathematics teacher education	439,000	2,000	13,000	25,000	18,000	378,000	3,000

TABLE 11. U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a] American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Male	199,000	S	4,000	9,000	6,000	178,000	2,000
Female	240,000	2,000	9,000	16,000	12,000	200,000	2,000
Technology/technical fields	397,000	2,000	51,000	23,000	21,000	294,000	6,000
Male	342,000	S	39,000	18,000	19,000	258,000	5,000
Female	55,000	S	12,000	5,000	2,000	36,000	S
Other S&E-related fields	369,000	S	29,000	16,000	22,000	298,000	3,000
Male	271,000	S	20,000	13,000	15,000	218,000	3,000
Female	99,000	S	8,000	2,000	7,000	80,000	S
Non-S&E fields	4,564,000	22,000	260,000	295,000	195,000	3,727,000	65,000
Male	2,608,000	14,000	139,000	119,000	103,000	2,198,000	36,000
Female	1,956,000	8,000	122,000	176,000	92,000	1,529,000	29,000
Arts/humanities	390,000	S	22,000	10,000	14,000	339,000	4,000
Male	206,000	S	9,000	5,000	9,000	181,000	2,000
Female	183,000	S	14,000	4,000	5,000	158,000	2,000
Education, except science/mathematics teacher education	1,044,000	6,000	24,000	83,000	45,000	870,000	15,000
Male	433,000	3,000	7,000	27,000	15,000	374,000	7,000
Female	611,000	3,000	17,000	57,000	30,000	496,000	7,000
Management/administration	1,522,000	9,000	142,000	95,000	65,000	1,190,000	23,000
Male	1,080,000	7,000	86,000	43,000	45,000	883,000	16,000
Female	442,000	2,000	56,000	51,000	19,000	307,000	7,000
Sales/marketing	160,000	S	12,000	7,000	6,000	134,000	1,000
Male	100,000	S	7,000	4,000	4,000	84,000	S
Female	60,000	S	4,000	3,000	3,000	49,000	S
Social services/related	357,000	S	11,000	36,000	15,000	289,000	5,000
Male	159,000	S	6,000	15,000	6,000	130,000	2,000
Female	198,000	S	5,000	21,000	10,000	159,000	3,000
Other non-S&E fields	1,092,000	6,000	49,000	65,000	49,000	906,000	17,000
Male	629,000	3,000	24,000	25,000	24,000	545,000	8,000
Female	462,000	3,000	25,000	40,000	24,000	361,000	9,000
Bachelor's degrees	12,782,000	61,000	1,065,000	747,000	699,000	9,977,000	232,000
Male	6,909,000	30,000	549,000	319,000	350,000	5,541,000	121,000
Female	5,872,000	31,000	516,000	428,000	349,000	4,437,000	111,000
S&E fields	8,716,000	41,000	762,000	507,000	497,000	6,745,000	164,000
Male	5,287,000	23,000	439,000	240,000	268,000	4,223,000	94,000
Female	3,429,000	18,000	322,000	267,000	229,000	2,523,000	70,000
Sciences	6,666,000	35,000	517,000	441,000	379,000	5,164,000	129,000
Male	3,471,000	18,000	235,000	190,000	168,000	2,795,000	65,000
Female	3,195,000	17,000	282,000	252,000	211,000	2,369,000	64,000
Biological/agricultural/environmental life sciences	1,369,000	6,000	114,000	58,000	79,000	1,087,000	26,000
Male	721,000	4,000	44,000	19,000	37,000	603,000	14,000
Female	648,000	2,000	70,000	39,000	42,000	484,000	12,000
Agricultural/food sciences	232,000	S	12,000	4,000	8,000	203,000	5,000
Male	150,000	S	8,000	2,000	6,000	130,000	3,000
Female	82,000	S	4,000	2,000	3,000	72,000	S
Biological sciences	998,000	4,000	98,000	53,000	67,000	758,000	18,000
Male	474,000	3,000	36,000	16,000	28,000	381,000	9,000
Female	524,000	1,000	62,000	37,000	39,000	377,000	9,000

TABLE 11. U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a] American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Environmental life sciences	139,000	1,000	4,000	1,000	4,000	126,000	2,000
Male	98,000	S	S	1,000	3,000	91,000	S
Female	41,000	S	4,000	S	*	35,000	1,000
Computer/mathematical sciences	1,202,000	9,000	145,000	85,000	62,000	881,000	21,000
Male	758,000	5,000	81,000	48,000	37,000	572,000	15,000
Female	444,000	3,000	64,000	37,000	24,000	309,000	6,000
Computer/information sciences	753,000	8,000	107,000	59,000	47,000	517,000	14,000
Male	498,000	5,000	63,000	31,000	28,000	361,000	10,000
Female	255,000	3,000	44,000	28,000	20,000	156,000	4,000
Mathematical sciences	449,000	S	38,000	26,000	14,000	364,000	7,000
Male	260,000	S	18,000	17,000	10,000	210,000	5,000
Female	189,000	S	20,000	9,000	5,000	154,000	1,000
Physical/related sciences	548,000	2,000	59,000	19,000	27,000	432,000	10,000
Male	378,000	1,000	33,000	10,000	14,000	316,000	3,000
Female	170,000	1,000	25,000	9,000	13,000	116,000	7,000
Chemistry, except biochemistry	275,000	1,000	37,000	12,000	15,000	204,000	6,000
Male	168,000	S	20,000	6,000	8,000	132,000	2,000
Female	107,000	S	17,000	6,000	7,000	72,000	4,000
Earth/atmospheric/ocean sciences	135,000	S	2,000	1,000	4,000	126,000	1,000
Male	109,000	S	2,000	1,000	2,000	103,000	1,000
Female	26,000	S	S	S	1,000	23,000	S
Physics/astronomy	93,000	*	17,000	2,000	3,000	69,000	1,000
Male	76,000	S	11,000	1,000	3,000	60,000	1,000
Female	16,000	S	6,000	1,000	1,000	9,000	S
Other physical sciences	46,000	S	2,000	4,000	4,000	34,000	S
Male	25,000	S	S	2,000	S	21,000	S
Female	21,000	S	2,000	2,000	4,000	12,000	S
Social/related sciences	3,547,000	19,000	199,000	279,000	212,000	2,764,000	73,000
Male	1,614,000	8,000	76,000	112,000	80,000	1,304,000	33,000
Female	1,933,000	11,000	123,000	167,000	133,000	1,460,000	40,000
Economics	563,000	S	75,000	20,000	25,000	435,000	7,000
Male	406,000	S	38,000	17,000	15,000	330,000	5,000
Female	157,000	S	36,000	3,000	10,000	105,000	3,000
Political/related sciences	688,000	4,000	32,000	56,000	41,000	540,000	15,000
Male	413,000	S	15,000	31,000	21,000	336,000	9,000
Female	275,000	3,000	17,000	25,000	19,000	204,000	6,000
Psychology	1,133,000	4,000	48,000	92,000	77,000	886,000	26,000
Male	335,000	S	13,000	25,000	18,000	269,000	8,000
Female	798,000	2,000	35,000	67,000	59,000	618,000	18,000
Sociology/anthropology	798,000	6,000	24,000	81,000	38,000	631,000	18,000
Male	283,000	2,000	5,000	27,000	15,000	225,000	8,000
Female	516,000	4,000	19,000	55,000	23,000	405,000	9,000
Other social sciences	364,000	3,000	20,000	30,000	31,000	273,000	7,000
Male	177,000	S	6,000	13,000	10,000	145,000	3,000
Female	187,000	2,000	15,000	17,000	22,000	128,000	5,000
Engineering	2,050,000	5,000	244,000	66,000	118,000	1,581,000	34,000
Male	1,816,000	5,000	204,000	51,000	100,000	1,428,000	29,000

TABLE 11. U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a] American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Female	234,000	1,000	40,000	15,000	18,000	154,000	6,000
Aerospace/related engineering	74,000	1,000	3,000	1,000	2,000	65,000	2,000
Male	68,000	S	3,000	1,000	2,000	59,000	2,000
Female	7,000	S	1,000	S	*	6,000	S
Chemical engineering	144,000	2,000	18,000	4,000	8,000	110,000	2,000
Male	112,000	1,000	13,000	1,000	6,000	90,000	1,000
Female	32,000	S	5,000	2,000	2,000	21,000	1,000
Civil/architectural engineering	335,000	1,000	31,000	10,000	26,000	258,000	9,000
Male	299,000	1,000	27,000	9,000	23,000	232,000	8,000
Female	36,000	S	5,000	2,000	4,000	25,000	1,000
Electrical/computer engineering	628,000	1,000	115,000	31,000	35,000	433,000	14,000
Male	565,000	S	99,000	25,000	30,000	399,000	12,000
Female	63,000	S	16,000	6,000	5,000	35,000	2,000
Industrial engineering	137,000	S	10,000	4,000	12,000	110,000	1,000
Male	114,000	S	6,000	2,000	10,000	95,000	S
Female	23,000	S	4,000	2,000	2,000	15,000	S
Mechanical engineering	480,000	1,000	45,000	10,000	19,000	399,000	5,000
Male	442,000	1,000	43,000	9,000	17,000	368,000	4,000
Female	38,000	S	2,000	1,000	2,000	31,000	1,000
Other engineering	251,000	S	22,000	4,000	15,000	206,000	2,000
Male	216,000	S	15,000	3,000	12,000	185,000	2,000
Female	34,000	S	7,000	2,000	3,000	22,000	S
S&E-related fields	2,828,000	13,000	241,000	161,000	152,000	2,210,000	50,000
Male	946,000	4,000	79,000	48,000	54,000	745,000	16,000
Female	1,882,000	9,000	162,000	113,000	98,000	1,465,000	35,000
Health	1,994,000	10,000	177,000	119,000	103,000	1,543,000	43,000
Male	355,000	2,000	36,000	18,000	21,000	267,000	10,000
Female	1,640,000	8,000	141,000	100,000	82,000	1,276,000	33,000
Science/mathematics teacher education	237,000	S	8,000	12,000	13,000	203,000	1,000
Male	108,000	S	2,000	5,000	3,000	97,000	S
Female	129,000	S	6,000	7,000	9,000	106,000	S
Technology/technical fields	336,000	2,000	35,000	19,000	19,000	256,000	4,000
Male	292,000	S	26,000	16,000	17,000	228,000	4,000
Female	43,000	S	9,000	4,000	2,000	28,000	S
Other S&E-related fields	260,000	S	21,000	12,000	18,000	208,000	2,000
Male	191,000	S	14,000	10,000	12,000	152,000	2,000
Female	69,000	S	6,000	2,000	5,000	55,000	S
Non-S&E fields	1,238,000	8,000	63,000	79,000	49,000	1,022,000	18,000
Male	677,000	3,000	31,000	31,000	28,000	573,000	11,000
Female	562,000	4,000	32,000	48,000	21,000	449,000	7,000
Arts/humanities	257,000	S	10,000	6,000	9,000	228,000	3,000
Male	141,000	S	5,000	4,000	7,000	124,000	1,000
Female	116,000	S	5,000	2,000	2,000	104,000	2,000
Education, except science/mathematics teacher education	221,000	3,000	6,000	12,000	9,000	188,000	3,000
Male	79,000	S	2,000	3,000	5,000	67,000	1,000
Female	142,000	S	4,000	9,000	4,000	121,000	2,000
Management/administration	478,000	3,000	37,000	36,000	20,000	374,000	8,000

TABLE 11. U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a] American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Male	320,000	S	20,000	16,000	12,000	265,000	6,000
Female	158,000	S	18,000	20,000	8,000	109,000	2,000
Sales/marketing	54,000	S	S	2,000	2,000	48,000	S
Male	28,000	S	S	S	1,000	25,000	S
Female	26,000	S	S	S	S	23,000	S
Social services/related	42,000	S	1,000	6,000	1,000	34,000	S
Male	24,000	S	1,000	3,000	S	20,000	S
Female	18,000	S	S	3,000	S	14,000	S
Other non-S&E fields	187,000	S	7,000	17,000	8,000	150,000	3,000
Male	85,000	S	3,000	5,000	3,000	72,000	2,000
Female	102,000	S	4,000	12,000	6,000	78,000	S
Master's degrees	5,967,000	23,000	625,000	345,000	250,000	4,643,000	82,000
Male	3,222,000	12,000	371,000	133,000	124,000	2,532,000	48,000
Female	2,745,000	10,000	254,000	212,000	125,000	2,110,000	33,000
S&E fields	2,348,000	7,000	396,000	102,000	100,000	1,711,000	34,000
Male	1,446,000	3,000	251,000	45,000	57,000	1,069,000	22,000
Female	902,000	4,000	145,000	57,000	43,000	641,000	12,000
Sciences	1,706,000	6,000	244,000	87,000	70,000	1,273,000	25,000
Male	895,000	2,000	127,000	33,000	34,000	684,000	15,000
Female	811,000	4,000	117,000	54,000	37,000	589,000	11,000
Biological/agricultural/environmental life sciences	261,000	1,000	34,000	8,000	9,000	204,000	4,000
Male	135,000	S	14,000	5,000	4,000	111,000	2,000
Female	125,000	1,000	20,000	4,000	5,000	93,000	2,000
Agricultural/food sciences	37,000	S	3,000	2,000	2,000	28,000	1,000
Male	23,000	S	1,000	2,000	S	18,000	S
Female	14,000	S	1,000	S	1,000	11,000	S
Biological sciences	185,000	1,000	29,000	6,000	7,000	141,000	2,000
Male	87,000	S	10,000	3,000	3,000	71,000	S
Female	98,000	S	19,000	3,000	4,000	71,000	1,000
Environmental life sciences	39,000	S	3,000	1,000	*	34,000	S
Male	26,000	S	3,000	S	S	22,000	S
Female	13,000	S	S	1,000	*	12,000	S
Computer/mathematical sciences	444,000	S	140,000	18,000	11,000	268,000	7,000
Male	295,000	S	84,000	9,000	9,000	190,000	4,000
Female	149,000	S	56,000	9,000	2,000	78,000	2,000
Computer/information sciences	316,000	S	119,000	13,000	9,000	169,000	5,000
Male	215,000	S	73,000	7,000	7,000	125,000	4,000
Female	101,000	S	46,000	6,000	2,000	45,000	2,000
Mathematical sciences	128,000	S	21,000	5,000	2,000	98,000	1,000
Male	80,000	S	11,000	2,000	2,000	65,000	1,000
Female	48,000	S	10,000	3,000	1,000	33,000	S
Physical/related sciences	161,000	1,000	29,000	4,000	4,000	121,000	2,000
Male	117,000	S	16,000	3,000	3,000	92,000	2,000
Female	44,000	S	13,000	1,000	1,000	28,000	*
Chemistry, except biochemistry	59,000	S	18,000	2,000	1,000	37,000	S
Male	38,000	S	9,000	2,000	1,000	26,000	S
Female	22,000	S	10,000	*	1,000	11,000	S

TABLE 11. U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a] American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Earth/atmospheric/ocean sciences	55,000	S	4,000	S	1,000	49,000	1,000
Male	41,000	S	2,000	S	1,000	37,000	1,000
Female	14,000	S	2,000	S	*	12,000	S
Physics/astronomy	40,000	S	7,000	1,000	2,000	29,000	*
Male	34,000	S	5,000	1,000	2,000	26,000	S
Female	6,000	S	2,000	S	S	3,000	S
Other physical sciences	7,000	S	S	S	S	6,000	S
Male	4,000	S	S	S	S	4,000	S
Female	2,000	S	S	S	S	2,000	S
Social/related sciences	840,000	3,000	41,000	57,000	46,000	680,000	13,000
Male	347,000	1,000	14,000	16,000	18,000	291,000	7,000
Female	493,000	2,000	27,000	41,000	28,000	389,000	6,000
Economics	89,000	S	13,000	4,000	4,000	68,000	*
Male	65,000	S	7,000	2,000	3,000	52,000	S
Female	25,000	S	6,000	2,000	1,000	16,000	S
Political/related sciences	118,000	S	7,000	9,000	6,000	93,000	1,000
Male	72,000	S	3,000	3,000	3,000	62,000	1,000
Female	46,000	S	5,000	5,000	3,000	32,000	S
Psychology	473,000	2,000	11,000	32,000	25,000	393,000	9,000
Male	139,000	S	2,000	7,000	8,000	118,000	4,000
Female	334,000	2,000	9,000	25,000	17,000	275,000	5,000
Sociology/anthropology	66,000	S	4,000	5,000	4,000	52,000	1,000
Male	28,000	S	1,000	2,000	2,000	23,000	S
Female	38,000	S	3,000	3,000	3,000	29,000	S
Other social sciences	94,000	S	5,000	8,000	6,000	73,000	1,000
Male	43,000	S	1,000	3,000	3,000	36,000	S
Female	51,000	S	4,000	5,000	4,000	37,000	1,000
Engineering	642,000	S	151,000	15,000	29,000	438,000	8,000
Male	552,000	S	124,000	12,000	23,000	385,000	7,000
Female	91,000	S	27,000	3,000	7,000	53,000	1,000
Aerospace/related engineering	19,000	S	2,000	S	1,000	14,000	1,000
Male	18,000	S	2,000	S	1,000	13,000	1,000
Female	1,000	S	S	S	S	1,000	S
Chemical engineering	33,000	S	11,000	1,000	2,000	19,000	S
Male	26,000	S	9,000	1,000	1,000	16,000	S
Female	7,000	S	1,000	*	1,000	4,000	S
Civil/architectural engineering	96,000	S	19,000	2,000	7,000	66,000	2,000
Male	83,000	S	15,000	2,000	6,000	58,000	2,000
Female	13,000	S	3,000	*	1,000	9,000	S
Electrical/computer engineering	237,000	S	74,000	6,000	7,000	147,000	2,000
Male	203,000	S	58,000	5,000	5,000	133,000	2,000
Female	34,000	S	16,000	1,000	2,000	14,000	S
Industrial engineering	40,000	S	9,000	2,000	4,000	26,000	S
Male	33,000	S	8,000	1,000	3,000	21,000	S
Female	7,000	S	1,000	*	1,000	5,000	S
Mechanical engineering	100,000	S	18,000	1,000	3,000	75,000	1,000
Male	93,000	S	17,000	1,000	3,000	70,000	1,000

TABLE 11. U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a]					
		American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Female	7,000	S	1,000	*	S	6,000	S
Other engineering	117,000	S	19,000	2,000	5,000	89,000	2,000
Male	96,000	S	14,000	2,000	4,000	75,000	1,000
Female	21,000	S	4,000	1,000	2,000	13,000	1,000
S&E-related fields	1,088,000	4,000	68,000	62,000	40,000	901,000	12,000
Male	349,000	S	33,000	18,000	13,000	279,000	6,000
Female	739,000	3,000	36,000	44,000	27,000	622,000	7,000
Health	740,000	3,000	41,000	42,000	28,000	618,000	8,000
Male	146,000	S	13,000	8,000	5,000	117,000	3,000
Female	593,000	2,000	28,000	34,000	23,000	500,000	5,000
Science/mathematics teacher education	189,000	S	4,000	13,000	5,000	164,000	2,000
Male	83,000	S	2,000	5,000	2,000	74,000	S
Female	106,000	S	3,000	8,000	3,000	90,000	S
Technology/technical fields	58,000	S	15,000	4,000	2,000	36,000	1,000
Male	46,000	S	12,000	3,000	2,000	28,000	1,000
Female	12,000	S	3,000	S	S	8,000	S
Other S&E-related fields	102,000	S	7,000	4,000	5,000	84,000	1,000
Male	73,000	S	6,000	3,000	3,000	61,000	S
Female	28,000	S	1,000	S	S	24,000	S
Non-S&E fields	2,530,000	12,000	161,000	181,000	110,000	2,031,000	36,000
Male	1,426,000	9,000	87,000	70,000	55,000	1,184,000	21,000
Female	1,104,000	3,000	74,000	111,000	55,000	847,000	15,000
Arts/humanities	113,000	S	12,000	3,000	5,000	93,000	1,000
Male	53,000	S	4,000	S	1,000	47,000	S
Female	60,000	S	8,000	1,000	3,000	46,000	S
Education, except science/mathematics teacher education	743,000	3,000	16,000	65,000	32,000	616,000	10,000
Male	310,000	2,000	4,000	21,000	9,000	268,000	6,000
Female	433,000	S	12,000	44,000	23,000	349,000	4,000
Management/administration	1,025,000	6,000	99,000	58,000	44,000	802,000	15,000
Male	744,000	6,000	63,000	27,000	33,000	606,000	10,000
Female	280,000	S	37,000	31,000	11,000	196,000	5,000
Sales/marketing	104,000	S	9,000	5,000	5,000	85,000	S
Male	71,000	S	6,000	3,000	2,000	59,000	S
Female	33,000	S	3,000	1,000	2,000	26,000	S
Social services/related	283,000	S	9,000	28,000	14,000	228,000	4,000
Male	110,000	S	4,000	11,000	5,000	89,000	1,000
Female	173,000	S	5,000	17,000	9,000	139,000	3,000
Other non-S&E fields	262,000	2,000	15,000	23,000	11,000	206,000	4,000
Male	138,000	S	7,000	7,000	5,000	115,000	3,000
Female	125,000	S	8,000	16,000	6,000	91,000	2,000
Doctorate degrees	1,026,000	2,000	163,000	37,000	34,000	778,000	12,000
Male	726,000	1,000	124,000	21,000	20,000	552,000	7,000
Female	300,000	1,000	39,000	16,000	13,000	226,000	4,000
S&E fields	796,000	1,000	143,000	23,000	23,000	596,000	9,000
Male	590,000	1,000	112,000	13,000	15,000	443,000	6,000
Female	206,000	*	31,000	10,000	8,000	153,000	3,000
Sciences	656,000	1,000	98,000	21,000	20,000	508,000	7,000

TABLE 11. U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a] American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Male	462,000	1,000	71,000	11,000	12,000	362,000	5,000
Female	194,000	*	27,000	10,000	8,000	147,000	3,000
Biological/agricultural/environmental life sciences	221,000	*	42,000	6,000	8,000	162,000	3,000
Male	151,000	*	28,000	4,000	5,000	111,000	2,000
Female	71,000	*	13,000	3,000	2,000	51,000	1,000
Agricultural/food sciences	23,000	S	4,000	1,000	1,000	17,000	*
Male	19,000	S	2,000	1,000	1,000	14,000	*
Female	4,000	S	1,000	*	*	3,000	S
Biological sciences	191,000	*	38,000	6,000	6,000	139,000	2,000
Male	126,000	*	26,000	3,000	4,000	92,000	1,000
Female	65,000	*	12,000	3,000	2,000	47,000	1,000
Environmental life sciences	7,000	S	1,000	*	*	6,000	S
Male	5,000	S	*	*	*	5,000	S
Female	1,000	S	*	S	*	1,000	S
Computer/mathematical sciences	57,000	S	13,000	3,000	2,000	40,000	*
Male	47,000	S	11,000	1,000	1,000	34,000	*
Female	10,000	S	2,000	2,000	*	6,000	*
Computer/information sciences	18,000	S	6,000	1,000	1,000	11,000	*
Male	15,000	S	5,000	*	*	9,000	*
Female	3,000	S	1,000	*	*	2,000	S
Mathematical sciences	39,000	S	7,000	3,000	1,000	29,000	*
Male	32,000	S	6,000	1,000	1,000	24,000	*
Female	8,000	S	1,000	2,000	*	4,000	*
Physical/related sciences	167,000	*	31,000	2,000	3,000	129,000	2,000
Male	142,000	*	24,000	2,000	2,000	113,000	1,000
Female	24,000	S	6,000	*	1,000	16,000	*
Chemistry, except biochemistry	86,000	*	18,000	1,000	2,000	64,000	1,000
Male	71,000	*	14,000	1,000	1,000	54,000	1,000
Female	15,000	S	4,000	*	1,000	10,000	*
Earth/atmospheric/ocean sciences	21,000	S	2,000	*	*	18,000	*
Male	18,000	S	2,000	*	*	16,000	*
Female	3,000	S	1,000	S	*	3,000	S
Physics/astronomy	55,000	S	10,000	1,000	1,000	43,000	*
Male	50,000	S	9,000	*	1,000	40,000	*
Female	5,000	S	2,000	*	*	3,000	S
Other physical sciences	4,000	S	*	S	S	4,000	S
Male	4,000	S	*	S	S	3,000	S
Female	1,000	S	*	S	S	*	S
Social/related sciences	211,000	1,000	13,000	9,000	8,000	177,000	3,000
Male	122,000	*	8,000	5,000	4,000	104,000	1,000
Female	89,000	*	6,000	4,000	4,000	73,000	1,000
Economics	28,000	S	4,000	1,000	1,000	22,000	*
Male	23,000	S	3,000	1,000	1,000	18,000	*
Female	5,000	S	1,000	*	*	4,000	S
Political/related sciences	24,000	S	2,000	2,000	1,000	19,000	*
Male	17,000	S	1,000	2,000	*	15,000	*
Female	7,000	S	1,000	*	*	5,000	*

TABLE 11. U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a] American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Psychology	108,000	*	3,000	4,000	4,000	95,000	1,000
Male	53,000	*	1,000	1,000	1,000	49,000	1,000
Female	55,000	*	2,000	2,000	3,000	47,000	1,000
Sociology/anthropology	31,000	*	1,000	1,000	1,000	26,000	*
Male	16,000	S	1,000	1,000	1,000	13,000	*
Female	14,000	S	1,000	1,000	1,000	12,000	*
Other social sciences	21,000	*	3,000	1,000	1,000	16,000	*
Male	13,000	S	2,000	1,000	1,000	9,000	*
Female	8,000	*	1,000	*	*	6,000	*
Engineering	140,000	S	45,000	2,000	3,000	88,000	1,000
Male	129,000	S	41,000	2,000	3,000	82,000	1,000
Female	12,000	S	4,000	*	*	7,000	*
Aerospace/related engineering	7,000	S	2,000	*	*	4,000	S
Male	7,000	S	2,000	*	*	4,000	S
Female	*	S	S	S	S	*	S
Chemical engineering	19,000	S	6,000	*	1,000	12,000	*
Male	17,000	S	6,000	*	1,000	11,000	*
Female	2,000	S	1,000	*	*	1,000	S
Civil/architectural engineering	12,000	S	3,000	*	*	8,000	*
Male	11,000	S	3,000	*	*	7,000	*
Female	1,000	S	*	S	S	*	S
Electrical/computer engineering	41,000	S	14,000	1,000	1,000	25,000	*
Male	38,000	S	13,000	1,000	1,000	23,000	*
Female	3,000	S	1,000	*	*	1,000	S
Industrial engineering	4,000	S	1,000	*	*	2,000	S
Male	3,000	S	1,000	*	*	2,000	S
Female	1,000	S	S	*	S	1,000	S
Mechanical engineering	17,000	S	6,000	*	*	10,000	*
Male	16,000	S	6,000	*	*	10,000	*
Female	1,000	S	*	S	S	*	S
Other engineering	40,000	S	12,000	1,000	1,000	27,000	*
Male	36,000	S	10,000	*	1,000	24,000	*
Female	4,000	S	1,000	*	*	3,000	S
S&E-related fields	69,000	*	11,000	3,000	4,000	51,000	1,000
Male	39,000	S	5,000	2,000	2,000	28,000	1,000
Female	31,000	*	5,000	1,000	2,000	23,000	*
Health	46,000	*	9,000	2,000	3,000	31,000	*
Male	21,000	S	4,000	2,000	2,000	13,000	*
Female	25,000	*	4,000	1,000	1,000	19,000	*
Science/mathematics teacher education	12,000	S	S	S	S	11,000	S
Male	8,000	S	S	S	S	8,000	S
Female	4,000	S	S	S	S	4,000	S
Technology/technical fields	4,000	S	1,000	S	S	2,000	S
Male	4,000	S	1,000	S	S	2,000	S
Female	S	S	S	S	S	S	S
Other S&E-related fields	7,000	S	S	S	S	6,000	S
Male	6,000	S	S	S	S	5,000	S

TABLE 11. U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a]					
		American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Female	1,000	S	S	S	S	S	S
Non-S&E fields	160,000	S	10,000	11,000	7,000	131,000	2,000
Male	97,000	S	7,000	6,000	3,000	81,000	S
Female	64,000	S	3,000	5,000	4,000	50,000	2,000
Arts/humanities	20,000	S	S	S	1,000	17,000	S
Male	12,000	S	S	S	S	11,000	S
Female	8,000	S	S	S	S	7,000	S
Education, except science/mathematics teacher education	76,000	S	1,000	6,000	4,000	64,000	1,000
Male	43,000	S	S	3,000	1,000	38,000	S
Female	33,000	S	1,000	3,000	2,000	26,000	1,000
Management/administration	17,000	S	5,000	S	S	11,000	S
Male	13,000	S	4,000	S	S	9,000	S
Female	3,000	S	S	S	S	2,000	S
Sales/marketing	2,000	S	1,000	S	S	1,000	S
Male	1,000	S	S	S	S	S	S
Female	1,000	S	S	S	S	S	S
Social services/related	19,000	S	1,000	3,000	S	15,000	S
Male	14,000	S	S	1,000	S	12,000	S
Female	5,000	S	S	1,000	S	4,000	S
Other non-S&E fields	26,000	S	2,000	1,000	1,000	22,000	S
Male	13,000	S	1,000	S	S	11,000	S
Female	13,000	S	S	S	S	12,000	S

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] "Other" includes Native Hawaiian/Other Pacific Islander and non-Hispanic respondents reporting 2 or more races.

[b] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
All degree levels and fields[a]	18,021,000	12,477,000	9,678,000	1,241,000	1,559,000	3,401,000	1,505,000	1,896,000	2,142,000	803,000	1,339,000
Male	10,437,000	7,750,000	6,479,000	752,000	519,000	1,437,000	751,000	686,000	1,250,000	548,000	701,000
Female	7,585,000	4,728,000	3,199,000	489,000	1,040,000	1,964,000	754,000	1,210,000	892,000	255,000	638,000
S&E fields	9,579,000	6,826,000	5,658,000	562,000	606,000	1,498,000	810,000	688,000	1,255,000	511,000	744,000
Male	6,153,000	4,633,000	4,061,000	344,000	228,000	716,000	472,000	245,000	805,000	367,000	437,000
Female	3,426,000	2,194,000	1,598,000	218,000	378,000	781,000	338,000	443,000	451,000	144,000	307,000
Sciences	7,245,000	4,879,000	3,852,000	466,000	562,000	1,372,000	717,000	655,000	994,000	375,000	619,000
Male	4,090,000	2,891,000	2,439,000	261,000	191,000	617,000	392,000	225,000	582,000	249,000	333,000
Female	3,156,000	1,989,000	1,413,000	205,000	371,000	755,000	325,000	430,000	412,000	126,000	286,000
Biological/agricultural/environmental life sciences	1,481,000	911,000	700,000	95,000	116,000	353,000	247,000	106,000	217,000	94,000	123,000
Male	843,000	522,000	414,000	63,000	44,000	180,000	138,000	42,000	141,000	65,000	76,000
Female	638,000	389,000	286,000	31,000	72,000	173,000	109,000	64,000	76,000	29,000	47,000
Agricultural/food sciences	249,000	176,000	137,000	29,000	9,000	40,000	25,000	15,000	34,000	20,000	14,000
Male	164,000	113,000	90,000	20,000	3,000	26,000	16,000	11,000	24,000	15,000	9,000
Female	85,000	62,000	47,000	9,000	6,000	14,000	9,000	4,000	10,000	5,000	4,000
Biological sciences	1,081,000	645,000	488,000	57,000	100,000	296,000	211,000	85,000	139,000	57,000	82,000
Male	573,000	346,000	271,000	35,000	39,000	143,000	115,000	29,000	84,000	38,000	46,000
Female	508,000	300,000	217,000	21,000	61,000	153,000	97,000	56,000	55,000	19,000	36,000
Environmental life sciences	151,000	90,000	75,000	8,000	6,000	17,000	11,000	6,000	44,000	17,000	28,000
Male	107,000	63,000	53,000	8,000	2,000	10,000	7,000	3,000	33,000	12,000	21,000
Female	44,000	27,000	22,000	S	4,000	7,000	4,000	3,000	11,000	4,000	7,000
Computer/mathematical sciences	1,437,000	1,113,000	1,011,000	52,000	50,000	210,000	101,000	109,000	114,000	58,000	57,000
Male	967,000	775,000	722,000	32,000	22,000	114,000	67,000	47,000	77,000	39,000	39,000
Female	470,000	337,000	289,000	20,000	28,000	96,000	33,000	62,000	37,000	19,000	18,000
Computer/information sciences	961,000	798,000	735,000	30,000	34,000	85,000	49,000	35,000	78,000	38,000	41,000
Male	671,000	566,000	532,000	18,000	15,000	53,000	35,000	18,000	53,000	26,000	27,000
Female	290,000	232,000	202,000	11,000	18,000	32,000	15,000	17,000	26,000	12,000	14,000
Mathematical sciences	476,000	315,000	277,000	22,000	16,000	125,000	51,000	74,000	36,000	20,000	16,000
Male	296,000	210,000	189,000	14,000	6,000	62,000	32,000	29,000	25,000	13,000	12,000
Female	180,000	105,000	87,000	9,000	10,000	63,000	19,000	45,000	11,000	7,000	5,000
Physical/related sciences	694,000	458,000	399,000	35,000	23,000	154,000	101,000	52,000	82,000	41,000	41,000
Male	513,000	347,000	307,000	28,000	13,000	104,000	71,000	33,000	62,000	33,000	29,000
Female	181,000	110,000	93,000	7,000	11,000	50,000	30,000	20,000	21,000	8,000	12,000
Chemistry, except biochemistry	326,000	230,000	203,000	13,000	14,000	68,000	44,000	24,000	28,000	13,000	15,000
Male	219,000	156,000	140,000	10,000	7,000	43,000	29,000	14,000	20,000	9,000	11,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	107,000	74,000	63,000	4,000	7,000	26,000	16,000	10,000	7,000	3,000	4,000
Earth/atmospheric/ocean sciences	170,000	105,000	87,000	14,000	4,000	31,000	17,000	13,000	34,000	15,000	20,000
Male	136,000	88,000	74,000	12,000	2,000	22,000	11,000	10,000	26,000	13,000	14,000
Female	35,000	17,000	13,000	2,000	2,000	9,000	6,000	3,000	8,000	2,000	6,000
Physics/astronomy	152,000	95,000	85,000	5,000	4,000	46,000	34,000	12,000	12,000	11,000	1,000
Male	130,000	86,000	77,000	5,000	4,000	36,000	29,000	7,000	9,000	8,000	1,000
Female	22,000	9,000	8,000	*	1,000	10,000	5,000	5,000	3,000	2,000	1,000
Other physical sciences	45,000	27,000	24,000	2,000	1,000	9,000	6,000	3,000	9,000	3,000	5,000
Male	28,000	17,000	16,000	1,000	S	4,000	3,000	1,000	6,000	3,000	4,000
Female	17,000	10,000	8,000	1,000	S	5,000	3,000	2,000	2,000	1,000	2,000
Social/related sciences	3,633,000	2,399,000	1,741,000	284,000	373,000	655,000	268,000	387,000	580,000	182,000	398,000
Male	1,766,000	1,246,000	996,000	138,000	112,000	219,000	116,000	103,000	302,000	112,000	190,000
Female	1,867,000	1,153,000	745,000	147,000	261,000	436,000	152,000	285,000	278,000	70,000	208,000
Economics	551,000	467,000	394,000	51,000	22,000	43,000	29,000	13,000	41,000	21,000	20,000
Male	418,000	355,000	304,000	40,000	12,000	31,000	23,000	8,000	32,000	15,000	16,000
Female	133,000	111,000	91,000	11,000	10,000	11,000	6,000	5,000	10,000	6,000	4,000
Political/related sciences	666,000	464,000	365,000	45,000	53,000	76,000	42,000	34,000	126,000	54,000	72,000
Male	421,000	298,000	249,000	24,000	25,000	36,000	20,000	16,000	87,000	42,000	46,000
Female	244,000	166,000	116,000	21,000	29,000	39,000	21,000	18,000	39,000	12,000	27,000
Psychology	1,335,000	814,000	518,000	120,000	176,000	314,000	103,000	212,000	207,000	46,000	161,000
Male	445,000	292,000	209,000	40,000	44,000	80,000	35,000	45,000	72,000	20,000	53,000
Female	891,000	522,000	310,000	80,000	132,000	234,000	67,000	167,000	134,000	26,000	108,000
Sociology/anthropology	684,000	410,000	286,000	38,000	86,000	127,000	56,000	70,000	147,000	36,000	111,000
Male	278,000	171,000	135,000	15,000	20,000	34,000	20,000	14,000	73,000	18,000	56,000
Female	406,000	239,000	151,000	23,000	66,000	93,000	36,000	57,000	74,000	18,000	55,000
Other social sciences	398,000	244,000	178,000	30,000	36,000	96,000	38,000	58,000	58,000	25,000	33,000
Male	204,000	130,000	100,000	18,000	12,000	38,000	17,000	21,000	37,000	18,000	19,000
Female	193,000	114,000	78,000	12,000	24,000	58,000	21,000	37,000	21,000	7,000	14,000
Engineering	2,334,000	1,947,000	1,807,000	96,000	44,000	126,000	93,000	33,000	261,000	137,000	125,000
Male	2,064,000	1,742,000	1,622,000	83,000	37,000	99,000	79,000	20,000	223,000	118,000	104,000
Female	270,000	205,000	185,000	14,000	7,000	27,000	14,000	13,000	39,000	18,000	21,000
Aerospace/related engineering	85,000	70,000	63,000	4,000	3,000	4,000	4,000	*	11,000	9,000	1,000
Male	77,000	65,000	59,000	3,000	2,000	3,000	3,000	S	9,000	8,000	1,000
Female	8,000	5,000	4,000	S	S	1,000	1,000	S	2,000	2,000	S
Chemical engineering	159,000	135,000	129,000	4,000	2,000	11,000	9,000	2,000	14,000	9,000	5,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	126,000	109,000	105,000	3,000	1,000	7,000	7,000	1,000	9,000	7,000	2,000
Female	34,000	25,000	24,000	*	1,000	3,000	2,000	2,000	5,000	2,000	3,000
Civil/architectural engineering	385,000	283,000	257,000	21,000	6,000	15,000	9,000	5,000	88,000	20,000	68,000
Male	342,000	254,000	230,000	18,000	5,000	11,000	8,000	4,000	76,000	17,000	59,000
Female	43,000	29,000	26,000	2,000	S	3,000	2,000	2,000	11,000	2,000	9,000
Electrical/computer engineering	748,000	655,000	617,000	25,000	13,000	37,000	30,000	8,000	56,000	41,000	15,000
Male	668,000	588,000	557,000	19,000	11,000	32,000	28,000	4,000	48,000	36,000	12,000
Female	81,000	68,000	60,000	6,000	2,000	5,000	2,000	3,000	8,000	5,000	3,000
Industrial engineering	134,000	116,000	108,000	4,000	4,000	6,000	3,000	3,000	12,000	7,000	5,000
Male	111,000	99,000	93,000	3,000	4,000	4,000	2,000	2,000	7,000	5,000	2,000
Female	23,000	16,000	15,000	1,000	1,000	2,000	1,000	1,000	5,000	1,000	3,000
Mechanical engineering	492,000	426,000	397,000	20,000	9,000	23,000	16,000	7,000	42,000	29,000	13,000
Male	455,000	396,000	370,000	19,000	8,000	18,000	14,000	4,000	41,000	28,000	13,000
Female	37,000	30,000	28,000	1,000	2,000	5,000	2,000	3,000	2,000	1,000	*
Other engineering	330,000	262,000	236,000	20,000	6,000	29,000	22,000	7,000	39,000	22,000	17,000
Male	286,000	231,000	209,000	18,000	5,000	23,000	17,000	5,000	32,000	18,000	14,000
Female	44,000	30,000	27,000	2,000	1,000	7,000	5,000	2,000	7,000	4,000	3,000
S&E-related fields	4,383,000	3,093,000	2,075,000	389,000	630,000	906,000	469,000	438,000	384,000	135,000	249,000
Male	1,921,000	1,483,000	1,104,000	226,000	153,000	283,000	165,000	118,000	156,000	69,000	87,000
Female	2,462,000	1,610,000	970,000	163,000	477,000	624,000	304,000	320,000	229,000	66,000	163,000
Health	3,373,000	2,435,000	1,541,000	297,000	597,000	635,000	433,000	201,000	304,000	110,000	194,000
Male	1,226,000	965,000	674,000	159,000	132,000	162,000	145,000	17,000	98,000	52,000	47,000
Female	2,148,000	1,470,000	867,000	138,000	465,000	472,000	288,000	185,000	206,000	58,000	147,000
Science/mathematics teacher education	340,000	94,000	64,000	19,000	11,000	230,000	15,000	214,000	16,000	6,000	10,000
Male	151,000	49,000	35,000	9,000	5,000	93,000	6,000	88,000	8,000	3,000	5,000
Female	189,000	45,000	29,000	10,000	6,000	136,000	10,000	127,000	8,000	3,000	5,000
Technology/technical fields	334,000	288,000	256,000	21,000	11,000	19,000	8,000	11,000	27,000	12,000	14,000
Male	292,000	254,000	227,000	18,000	9,000	15,000	6,000	9,000	23,000	10,000	13,000
Female	42,000	34,000	29,000	3,000	2,000	4,000	2,000	2,000	4,000	2,000	1,000
Other S&E-related fields	336,000	276,000	214,000	51,000	11,000	23,000	12,000	11,000	37,000	6,000	31,000
Male	253,000	215,000	168,000	40,000	7,000	13,000	8,000	5,000	26,000	4,000	22,000
Female	83,000	61,000	46,000	11,000	4,000	11,000	4,000	6,000	12,000	2,000	9,000
Non-S&E fields	4,059,000	2,558,000	1,945,000	290,000	324,000	998,000	227,000	771,000	503,000	157,000	346,000
Male	2,362,000	1,634,000	1,314,000	182,000	138,000	438,000	114,000	324,000	290,000	112,000	177,000
Female	1,697,000	924,000	631,000	108,000	185,000	559,000	112,000	447,000	213,000	45,000	168,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Arts/humanities	366,000	241,000	176,000	37,000	28,000	95,000	34,000	61,000	30,000	9,000	21,000
Male	196,000	136,000	100,000	18,000	18,000	44,000	16,000	28,000	16,000	6,000	10,000
Female	169,000	104,000	76,000	18,000	10,000	51,000	18,000	33,000	14,000	3,000	11,000
Education, except science/mathematics teacher education	890,000	201,000	133,000	23,000	44,000	638,000	62,000	576,000	51,000	13,000	38,000
Male	365,000	86,000	63,000	10,000	13,000	258,000	26,000	232,000	20,000	7,000	13,000
Female	525,000	115,000	70,000	13,000	31,000	380,000	35,000	344,000	31,000	6,000	25,000
Management/administration	1,367,000	1,137,000	995,000	65,000	77,000	100,000	52,000	48,000	130,000	62,000	68,000
Male	986,000	839,000	759,000	46,000	34,000	56,000	30,000	26,000	92,000	48,000	44,000
Female	380,000	299,000	236,000	20,000	43,000	44,000	22,000	22,000	38,000	14,000	24,000
Sales/marketing	144,000	127,000	110,000	10,000	7,000	11,000	7,000	4,000	7,000	3,000	4,000
Male	93,000	82,000	74,000	5,000	3,000	7,000	3,000	4,000	4,000	S	2,000
Female	52,000	45,000	36,000	5,000	4,000	4,000	4,000	S	S	S	S
Social services/related	317,000	211,000	74,000	26,000	110,000	56,000	21,000	35,000	50,000	6,000	44,000
Male	141,000	99,000	39,000	11,000	49,000	25,000	11,000	14,000	17,000	5,000	12,000
Female	176,000	112,000	35,000	15,000	61,000	31,000	10,000	21,000	34,000	1,000	32,000
Other non-S&E fields	975,000	642,000	457,000	128,000	57,000	98,000	52,000	47,000	235,000	64,000	171,000
Male	581,000	392,000	279,000	92,000	21,000	48,000	28,000	20,000	141,000	44,000	96,000
Female	394,000	250,000	178,000	36,000	36,000	50,000	23,000	27,000	94,000	20,000	74,000
Bachelor's degrees	10,490,000	7,801,000	6,256,000	603,000	942,000	1,408,000	566,000	841,000	1,281,000	449,000	831,000
Male	5,912,000	4,665,000	4,053,000	350,000	262,000	499,000	215,000	284,000	748,000	307,000	442,000
Female	4,578,000	3,136,000	2,203,000	253,000	681,000	909,000	352,000	557,000	532,000	143,000	389,000
S&E fields	6,953,000	5,250,000	4,405,000	404,000	442,000	775,000	326,000	450,000	927,000	343,000	585,000
Male	4,424,000	3,524,000	3,113,000	255,000	156,000	308,000	160,000	148,000	592,000	247,000	345,000
Female	2,529,000	1,727,000	1,292,000	149,000	286,000	467,000	165,000	302,000	335,000	96,000	240,000
Sciences	5,276,000	3,819,000	3,077,000	333,000	409,000	721,000	294,000	427,000	736,000	247,000	489,000
Male	2,936,000	2,239,000	1,918,000	193,000	129,000	269,000	134,000	134,000	428,000	163,000	265,000
Female	2,340,000	1,580,000	1,159,000	140,000	281,000	452,000	159,000	293,000	308,000	83,000	225,000
Biological/agricultural/environmental life sciences	1,082,000	737,000	571,000	78,000	88,000	184,000	108,000	77,000	160,000	61,000	99,000
Male	601,000	417,000	333,000	51,000	33,000	79,000	50,000	29,000	105,000	44,000	61,000
Female	481,000	320,000	238,000	27,000	55,000	105,000	58,000	48,000	55,000	17,000	38,000
Agricultural/food sciences	199,000	149,000	116,000	26,000	7,000	21,000	9,000	12,000	29,000	16,000	12,000
Male	130,000	96,000	76,000	18,000	S	13,000	4,000	9,000	21,000	12,000	8,000
Female	69,000	53,000	40,000	8,000	5,000	8,000	5,000	3,000	8,000	4,000	4,000
Biological sciences	767,000	517,000	393,000	46,000	78,000	153,000	92,000	61,000	98,000	35,000	63,000
Male	389,000	271,000	214,000	27,000	30,000	59,000	41,000	18,000	59,000	24,000	35,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	378,000	246,000	179,000	19,000	48,000	93,000	51,000	43,000	39,000	11,000	28,000
Environmental life sciences	116,000	72,000	62,000	6,000	4,000	10,000	6,000	4,000	34,000	10,000	24,000
Male	82,000	50,000	43,000	6,000	1,000	6,000	4,000	2,000	25,000	8,000	18,000
Female	34,000	21,000	19,000	S	2,000	4,000	2,000	2,000	8,000	2,000	6,000
Computer/mathematical sciences	1,010,000	807,000	732,000	37,000	39,000	119,000	39,000	79,000	85,000	39,000	45,000
Male	670,000	556,000	517,000	24,000	16,000	58,000	26,000	32,000	56,000	25,000	31,000
Female	340,000	251,000	215,000	13,000	23,000	60,000	13,000	47,000	28,000	14,000	14,000
Computer/information sciences	667,000	561,000	515,000	20,000	26,000	49,000	25,000	24,000	57,000	25,000	32,000
Male	460,000	392,000	368,000	13,000	11,000	31,000	18,000	12,000	37,000	15,000	22,000
Female	207,000	169,000	146,000	8,000	15,000	18,000	6,000	12,000	20,000	10,000	11,000
Mathematical sciences	343,000	247,000	217,000	16,000	13,000	70,000	15,000	55,000	27,000	14,000	13,000
Male	210,000	164,000	148,000	11,000	5,000	27,000	8,000	19,000	19,000	10,000	9,000
Female	133,000	83,000	69,000	6,000	8,000	42,000	7,000	36,000	8,000	4,000	4,000
Physical/related sciences	423,000	306,000	268,000	23,000	15,000	65,000	35,000	30,000	53,000	22,000	31,000
Male	299,000	225,000	200,000	18,000	7,000	36,000	20,000	16,000	38,000	17,000	21,000
Female	125,000	81,000	68,000	5,000	8,000	29,000	15,000	13,000	15,000	5,000	10,000
Chemistry, except biochemistry	209,000	157,000	136,000	10,000	11,000	32,000	18,000	14,000	19,000	8,000	11,000
Male	133,000	101,000	89,000	7,000	5,000	18,000	9,000	8,000	14,000	6,000	8,000
Female	76,000	57,000	48,000	3,000	6,000	15,000	9,000	6,000	5,000	2,000	3,000
Earth/atmospheric/ocean sciences	105,000	74,000	63,000	8,000	2,000	10,000	4,000	7,000	21,000	7,000	14,000
Male	85,000	63,000	54,000	8,000	1,000	7,000	2,000	5,000	15,000	6,000	9,000
Female	20,000	10,000	9,000	1,000	1,000	4,000	2,000	2,000	6,000	1,000	5,000
Physics/astronomy	73,000	52,000	49,000	2,000	1,000	15,000	8,000	7,000	5,000	5,000	S
Male	59,000	47,000	44,000	2,000	1,000	9,000	7,000	3,000	4,000	3,000	S
Female	14,000	6,000	5,000	S	*	6,000	2,000	4,000	2,000	1,000	S
Other physical sciences	36,000	23,000	19,000	2,000	S	7,000	5,000	2,000	7,000	2,000	5,000
Male	22,000	14,000	13,000	S	S	3,000	S	S	5,000	1,000	4,000
Female	15,000	8,000	6,000	S	S	4,000	3,000	S	2,000	S	2,000
Social/related sciences	2,760,000	1,969,000	1,507,000	195,000	267,000	353,000	112,000	241,000	439,000	125,000	314,000
Male	1,366,000	1,041,000	868,000	101,000	72,000	95,000	38,000	57,000	229,000	77,000	152,000
Female	1,395,000	928,000	639,000	95,000	194,000	257,000	73,000	184,000	210,000	48,000	162,000
Economics	455,000	407,000	350,000	42,000	15,000	18,000	10,000	8,000	30,000	13,000	17,000
Male	346,000	310,000	269,000	33,000	8,000	12,000	8,000	4,000	24,000	10,000	15,000
Female	109,000	98,000	80,000	10,000	7,000	6,000	2,000	3,000	6,000	3,000	3,000
Political/related sciences	548,000	407,000	323,000	40,000	44,000	48,000	20,000	28,000	94,000	33,000	61,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	347,000	265,000	224,000	20,000	21,000	19,000	8,000	11,000	62,000	24,000	38,000
Female	201,000	141,000	99,000	19,000	24,000	29,000	12,000	17,000	31,000	9,000	22,000
Psychology	849,000	569,000	410,000	54,000	105,000	142,000	41,000	102,000	137,000	28,000	109,000
Male	274,000	199,000	162,000	19,000	18,000	28,000	10,000	18,000	47,000	14,000	33,000
Female	574,000	370,000	248,000	35,000	87,000	114,000	30,000	84,000	90,000	14,000	76,000
Sociology/anthropology	605,000	381,000	268,000	35,000	79,000	90,000	27,000	63,000	134,000	32,000	102,000
Male	243,000	159,000	127,000	14,000	18,000	17,000	7,000	10,000	67,000	15,000	51,000
Female	362,000	222,000	140,000	21,000	61,000	73,000	20,000	52,000	67,000	16,000	51,000
Other social sciences	303,000	204,000	157,000	24,000	23,000	55,000	14,000	41,000	44,000	19,000	25,000
Male	156,000	108,000	85,000	14,000	9,000	19,000	5,000	14,000	29,000	14,000	15,000
Female	147,000	96,000	72,000	10,000	15,000	36,000	8,000	28,000	15,000	5,000	10,000
Engineering	1,677,000	1,431,000	1,328,000	71,000	32,000	55,000	32,000	23,000	191,000	96,000	95,000
Male	1,488,000	1,285,000	1,195,000	62,000	27,000	40,000	26,000	14,000	164,000	83,000	80,000
Female	189,000	146,000	132,000	9,000	5,000	15,000	6,000	9,000	27,000	13,000	15,000
Aerospace/related engineering	64,000	54,000	50,000	3,000	2,000	2,000	1,000	S	8,000	7,000	S
Male	57,000	50,000	46,000	2,000	2,000	1,000	1,000	S	6,000	5,000	S
Female	7,000	4,000	3,000	S	S	1,000	1,000	S	1,000	1,000	S
Chemical engineering	116,000	100,000	96,000	3,000	2,000	6,000	4,000	1,000	10,000	7,000	3,000
Male	90,000	79,000	76,000	2,000	*	4,000	3,000	S	7,000	5,000	2,000
Female	26,000	21,000	20,000	*	1,000	2,000	1,000	1,000	3,000	2,000	1,000
Civil/architectural engineering	288,000	214,000	194,000	16,000	4,000	6,000	3,000	3,000	68,000	15,000	53,000
Male	258,000	192,000	174,000	15,000	4,000	5,000	2,000	3,000	60,000	14,000	46,000
Female	30,000	21,000	20,000	S	S	1,000	1,000	S	8,000	1,000	6,000
Electrical/computer engineering	518,000	461,000	436,000	16,000	9,000	15,000	9,000	6,000	42,000	30,000	13,000
Male	466,000	417,000	399,000	11,000	8,000	12,000	9,000	3,000	37,000	26,000	10,000
Female	53,000	43,000	37,000	5,000	1,000	3,000	*	3,000	6,000	4,000	2,000
Industrial engineering	101,000	91,000	84,000	3,000	4,000	2,000	1,000	2,000	7,000	3,000	4,000
Male	83,000	78,000	72,000	3,000	4,000	1,000	*	S	4,000	3,000	1,000
Female	17,000	13,000	12,000	1,000	*	1,000	*	S	3,000	*	S
Mechanical engineering	393,000	346,000	320,000	18,000	8,000	13,000	7,000	6,000	34,000	23,000	12,000
Male	362,000	320,000	297,000	17,000	7,000	9,000	5,000	3,000	33,000	22,000	11,000
Female	31,000	25,000	23,000	S	2,000	4,000	1,000	3,000	1,000	1,000	*
Other engineering	197,000	165,000	149,000	13,000	4,000	11,000	7,000	4,000	21,000	11,000	10,000
Male	172,000	147,000	131,000	12,000	4,000	8,000	5,000	3,000	16,000	8,000	8,000
Female	25,000	18,000	17,000	S	S	2,000	2,000	S	5,000	3,000	2,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
S&E-related fields	2,322,000	1,704,000	1,163,000	138,000	403,000	397,000	191,000	206,000	221,000	68,000	153,000
Male	824,000	652,000	524,000	64,000	63,000	89,000	32,000	57,000	83,000	34,000	49,000
Female	1,498,000	1,052,000	639,000	74,000	340,000	308,000	159,000	149,000	138,000	34,000	104,000
Health	1,621,000	1,186,000	739,000	67,000	380,000	265,000	176,000	89,000	170,000	49,000	120,000
Male	313,000	242,000	183,000	12,000	47,000	29,000	23,000	6,000	42,000	21,000	21,000
Female	1,308,000	944,000	556,000	55,000	333,000	236,000	153,000	83,000	128,000	29,000	99,000
Science/mathematics teacher education	185,000	72,000	50,000	13,000	8,000	103,000	S	101,000	10,000	5,000	5,000
Male	85,000	38,000	27,000	5,000	5,000	41,000	S	41,000	6,000	2,000	4,000
Female	99,000	34,000	23,000	8,000	3,000	62,000	S	59,000	4,000	3,000	1,000
Technology/technical fields	282,000	246,000	215,000	20,000	10,000	15,000	6,000	8,000	21,000	9,000	13,000
Male	248,000	218,000	193,000	17,000	9,000	11,000	5,000	7,000	19,000	8,000	12,000
Female	33,000	28,000	23,000	3,000	2,000	3,000	S	2,000	2,000	1,000	1,000
Other S&E-related fields	235,000	201,000	159,000	38,000	4,000	13,000	5,000	8,000	20,000	5,000	14,000
Male	177,000	155,000	122,000	30,000	3,000	7,000	4,000	3,000	16,000	4,000	12,000
Female	57,000	47,000	37,000	8,000	S	7,000	S	S	4,000	2,000	2,000
Non-S&E degrees	1,215,000	847,000	688,000	61,000	98,000	236,000	50,000	186,000	132,000	38,000	94,000
Male	664,000	489,000	416,000	31,000	42,000	101,000	23,000	79,000	74,000	26,000	48,000
Female	551,000	358,000	272,000	30,000	55,000	134,000	27,000	107,000	59,000	12,000	46,000
Arts/humanities	252,000	187,000	142,000	21,000	24,000	43,000	14,000	29,000	22,000	6,000	16,000
Male	139,000	106,000	81,000	9,000	16,000	19,000	6,000	14,000	13,000	5,000	9,000
Female	114,000	81,000	61,000	12,000	8,000	24,000	9,000	15,000	9,000	1,000	7,000
Education, except science/mathematics teacher education	217,000	80,000	61,000	5,000	13,000	116,000	5,000	111,000	21,000	4,000	17,000
Male	77,000	26,000	21,000	S	4,000	46,000	S	45,000	5,000	1,000	4,000
Female	140,000	53,000	40,000	4,000	9,000	70,000	4,000	66,000	16,000	3,000	13,000
Management/administration	468,000	379,000	326,000	21,000	32,000	38,000	15,000	23,000	51,000	16,000	34,000
Male	315,000	262,000	234,000	13,000	15,000	20,000	10,000	10,000	33,000	13,000	20,000
Female	153,000	118,000	93,000	7,000	18,000	18,000	5,000	12,000	17,000	4,000	14,000
Sales/marketing	53,000	45,000	40,000	S	S	4,000	2,000	2,000	4,000	S	S
Male	27,000	23,000	22,000	S	S	3,000	S	2,000	S	S	S
Female	26,000	22,000	18,000	S	S	S	S	S	S	S	S
Social services/related	40,000	31,000	22,000	2,000	7,000	3,000	2,000	S	6,000	S	5,000
Male	22,000	18,000	14,000	S	2,000	2,000	S	S	2,000	S	1,000
Female	18,000	13,000	8,000	S	4,000	S	S	S	4,000	S	4,000
Other non-S&E fields	185,000	125,000	97,000	10,000	18,000	31,000	11,000	20,000	29,000	8,000	21,000
Male	84,000	55,000	44,000	6,000	4,000	11,000	3,000	8,000	18,000	5,000	13,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	101,000	71,000	53,000	4,000	14,000	20,000	7,000	12,000	10,000	3,000	8,000
Master's degrees	4,979,000	3,026,000	2,293,000	293,000	440,000	1,346,000	370,000	976,000	607,000	239,000	368,000
Male	2,756,000	1,896,000	1,596,000	155,000	144,000	522,000	163,000	359,000	339,000	161,000	177,000
Female	2,223,000	1,130,000	697,000	138,000	296,000	824,000	206,000	618,000	268,000	77,000	191,000
S&E fields	1,919,000	1,262,000	1,020,000	114,000	128,000	395,000	182,000	213,000	262,000	122,000	140,000
Male	1,211,000	870,000	756,000	63,000	50,000	176,000	95,000	82,000	165,000	86,000	79,000
Female	708,000	392,000	265,000	51,000	77,000	218,000	87,000	131,000	97,000	36,000	61,000
Sciences	1,384,000	824,000	611,000	93,000	120,000	358,000	154,000	205,000	202,000	89,000	112,000
Male	748,000	484,000	393,000	47,000	44,000	148,000	71,000	77,000	115,000	58,000	57,000
Female	637,000	340,000	218,000	46,000	76,000	211,000	83,000	128,000	86,000	31,000	55,000
Biological/agricultural/environmental life sciences	209,000	109,000	80,000	12,000	17,000	63,000	39,000	23,000	37,000	17,000	20,000
Male	111,000	59,000	45,000	9,000	5,000	29,000	20,000	10,000	23,000	10,000	12,000
Female	98,000	50,000	35,000	3,000	12,000	33,000	19,000	14,000	14,000	7,000	8,000
Agricultural/food sciences	31,000	19,000	14,000	3,000	2,000	9,000	7,000	3,000	3,000	2,000	1,000
Male	18,000	10,000	8,000	2,000	S	6,000	5,000	1,000	2,000	1,000	1,000
Female	13,000	8,000	6,000	S	1,000	3,000	2,000	1,000	2,000	1,000	S
Biological sciences	148,000	74,000	54,000	7,000	13,000	49,000	30,000	19,000	25,000	9,000	16,000
Male	72,000	37,000	27,000	5,000	4,000	21,000	14,000	8,000	14,000	5,000	9,000
Female	75,000	37,000	26,000	2,000	9,000	28,000	16,000	11,000	11,000	4,000	7,000
Environmental life sciences	30,000	16,000	12,000	S	2,000	4,000	2,000	2,000	9,000	6,000	3,000
Male	20,000	11,000	9,000	S	S	2,000	1,000	S	7,000	4,000	3,000
Female	10,000	5,000	3,000	S	2,000	2,000	1,000	S	2,000	2,000	S
Computer/mathematical sciences	375,000	286,000	263,000	14,000	10,000	62,000	33,000	29,000	27,000	16,000	11,000
Male	255,000	202,000	190,000	7,000	5,000	33,000	19,000	14,000	19,000	12,000	7,000
Female	120,000	84,000	73,000	7,000	4,000	29,000	14,000	14,000	8,000	4,000	4,000
Computer/information sciences	277,000	228,000	211,000	9,000	8,000	29,000	17,000	11,000	21,000	12,000	8,000
Male	196,000	166,000	156,000	5,000	4,000	16,000	10,000	5,000	15,000	10,000	5,000
Female	80,000	62,000	55,000	4,000	4,000	13,000	7,000	6,000	5,000	2,000	3,000
Mathematical sciences	98,000	58,000	51,000	5,000	2,000	33,000	16,000	18,000	7,000	4,000	3,000
Male	58,000	37,000	34,000	2,000	1,000	18,000	8,000	9,000	4,000	2,000	2,000
Female	40,000	21,000	17,000	3,000	1,000	16,000	7,000	9,000	3,000	2,000	1,000
Physical/related sciences	130,000	79,000	68,000	8,000	4,000	34,000	16,000	18,000	17,000	9,000	7,000
Male	94,000	60,000	52,000	7,000	1,000	22,000	9,000	13,000	13,000	7,000	6,000
Female	35,000	19,000	16,000	1,000	2,000	12,000	7,000	5,000	4,000	2,000	2,000
Chemistry, except biochemistry	46,000	30,000	28,000	1,000	1,000	13,000	5,000	7,000	4,000	2,000	2,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	28,000	20,000	19,000	S	S	6,000	2,000	4,000	2,000	1,000	1,000
Female	18,000	10,000	9,000	S	S	6,000	3,000	3,000	2,000	1,000	1,000
Earth/atmospheric/ocean sciences	47,000	26,000	19,000	5,000	2,000	11,000	4,000	6,000	10,000	5,000	5,000
Male	36,000	20,000	16,000	4,000	S	7,000	2,000	5,000	9,000	4,000	4,000
Female	11,000	6,000	3,000	S	1,000	4,000	2,000	1,000	2,000	1,000	1,000
Physics/astronomy	31,000	20,000	18,000	2,000	1,000	10,000	6,000	4,000	1,000	1,000	S
Male	27,000	18,000	16,000	S	1,000	8,000	5,000	3,000	1,000	1,000	S
Female	4,000	2,000	2,000	S	S	2,000	1,000	*	S	S	S
Other physical sciences	5,000	3,000	3,000	S	S	1,000	S	1,000	1,000	S	S
Male	3,000	1,000	1,000	S	S	1,000	S	S	S	S	S
Female	2,000	S	S	S	S	S	S	S	S	S	S
Social/related sciences	670,000	350,000	201,000	60,000	89,000	200,000	66,000	134,000	121,000	47,000	74,000
Male	288,000	163,000	107,000	24,000	32,000	64,000	24,000	40,000	61,000	29,000	32,000
Female	383,000	186,000	94,000	36,000	57,000	136,000	42,000	94,000	60,000	18,000	42,000
Economics	72,000	52,000	40,000	7,000	6,000	12,000	7,000	5,000	8,000	5,000	2,000
Male	53,000	40,000	30,000	6,000	3,000	8,000	5,000	3,000	5,000	4,000	1,000
Female	19,000	12,000	9,000	S	2,000	4,000	2,000	2,000	3,000	2,000	1,000
Political/related sciences	97,000	52,000	39,000	4,000	8,000	14,000	9,000	5,000	31,000	20,000	11,000
Male	59,000	29,000	22,000	3,000	4,000	7,000	3,000	4,000	23,000	17,000	7,000
Female	38,000	23,000	17,000	1,000	5,000	7,000	5,000	1,000	8,000	3,000	4,000
Psychology	373,000	187,000	87,000	41,000	59,000	128,000	26,000	102,000	58,000	13,000	45,000
Male	117,000	67,000	35,000	11,000	21,000	31,000	7,000	24,000	19,000	3,000	16,000
Female	256,000	120,000	52,000	30,000	38,000	97,000	19,000	78,000	39,000	10,000	29,000
Sociology/anthropology	52,000	23,000	16,000	2,000	5,000	18,000	11,000	7,000	11,000	3,000	8,000
Male	21,000	9,000	7,000	S	2,000	7,000	4,000	3,000	6,000	2,000	4,000
Female	31,000	14,000	10,000	1,000	3,000	11,000	8,000	4,000	6,000	2,000	4,000
Other social sciences	77,000	35,000	18,000	5,000	12,000	29,000	13,000	15,000	13,000	6,000	8,000
Male	37,000	19,000	13,000	3,000	3,000	11,000	5,000	6,000	8,000	4,000	4,000
Female	39,000	16,000	5,000	2,000	9,000	18,000	9,000	9,000	6,000	2,000	4,000
Engineering	535,000	438,000	409,000	20,000	8,000	36,000	28,000	8,000	60,000	33,000	28,000
Male	464,000	385,000	362,000	16,000	7,000	29,000	24,000	5,000	50,000	28,000	22,000
Female	71,000	53,000	47,000	4,000	1,000	8,000	4,000	3,000	10,000	5,000	6,000
Aerospace/related engineering	15,000	12,000	10,000	S	S	1,000	1,000	S	2,000	2,000	S
Male	14,000	11,000	10,000	S	S	1,000	1,000	S	2,000	2,000	S
Female	1,000	1,000	1,000	S	S	*	*	S	S	S	S

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Chemical engineering	27,000	23,000	22,000	S	S	2,000	1,000	S	2,000	1,000	2,000
Male	21,000	19,000	19,000	S	S	1,000	1,000	S	1,000	*	S
Female	6,000	3,000	3,000	S	S	1,000	*	S	2,000	S	S
Civil/architectural engineering	86,000	63,000	58,000	4,000	2,000	5,000	3,000	2,000	18,000	4,000	15,000
Male	74,000	56,000	52,000	3,000	S	3,000	2,000	S	15,000	3,000	12,000
Female	12,000	7,000	6,000	S	S	2,000	1,000	S	3,000	1,000	2,000
Electrical/computer engineering	194,000	171,000	159,000	8,000	3,000	12,000	11,000	1,000	11,000	10,000	2,000
Male	169,000	148,000	138,000	7,000	3,000	11,000	10,000	1,000	10,000	8,000	2,000
Female	26,000	23,000	21,000	1,000	1,000	1,000	1,000	S	2,000	1,000	S
Industrial engineering	29,000	23,000	22,000	S	S	2,000	1,000	1,000	4,000	3,000	1,000
Male	24,000	19,000	19,000	S	S	2,000	1,000	S	3,000	2,000	S
Female	5,000	4,000	3,000	S	S	*	*	S	S	S	S
Mechanical engineering	84,000	70,000	68,000	1,000	1,000	6,000	5,000	1,000	7,000	6,000	2,000
Male	79,000	66,000	64,000	1,000	1,000	6,000	5,000	S	7,000	5,000	2,000
Female	5,000	4,000	4,000	S	S	1,000	*	S	S	S	S
Other engineering	99,000	76,000	69,000	6,000	1,000	8,000	6,000	2,000	14,000	8,000	6,000
Male	83,000	66,000	61,000	4,000	1,000	5,000	4,000	1,000	12,000	7,000	5,000
Female	16,000	11,000	8,000	S	S	3,000	2,000	1,000	2,000	1,000	1,000
S&E-related fields	915,000	509,000	318,000	63,000	127,000	300,000	81,000	219,000	106,000	34,000	72,000
Male	301,000	189,000	145,000	22,000	21,000	74,000	18,000	56,000	38,000	14,000	24,000
Female	613,000	320,000	173,000	41,000	106,000	226,000	63,000	163,000	67,000	20,000	48,000
Health	624,000	377,000	216,000	43,000	118,000	171,000	68,000	103,000	77,000	28,000	49,000
Male	130,000	89,000	64,000	8,000	17,000	19,000	12,000	7,000	22,000	10,000	12,000
Female	494,000	288,000	152,000	35,000	101,000	152,000	56,000	96,000	55,000	18,000	37,000
Science/mathematics teacher education	147,000	22,000	14,000	6,000	3,000	118,000	7,000	111,000	6,000	S	5,000
Male	61,000	11,000	7,000	4,000	S	48,000	2,000	46,000	2,000	S	S
Female	85,000	11,000	6,000	S	3,000	70,000	5,000	65,000	4,000	S	4,000
Technology/technical fields	49,000	40,000	39,000	S	S	4,000	1,000	3,000	5,000	4,000	2,000
Male	40,000	34,000	32,000	S	S	3,000	1,000	2,000	4,000	2,000	1,000
Female	9,000	7,000	6,000	S	S	S	S	S	S	S	S
Other S&E-related fields	95,000	69,000	50,000	12,000	6,000	8,000	5,000	3,000	17,000	1,000	16,000
Male	70,000	55,000	42,000	9,000	S	5,000	3,000	S	10,000	S	9,000
Female	25,000	14,000	8,000	3,000	3,000	4,000	2,000	S	7,000	S	7,000
Non-S&E fields	2,145,000	1,255,000	954,000	116,000	185,000	651,000	107,000	544,000	239,000	83,000	156,000
Male	1,243,000	837,000	695,000	70,000	72,000	271,000	51,000	220,000	135,000	61,000	74,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	902,000	418,000	259,000	47,000	113,000	379,000	56,000	324,000	104,000	22,000	82,000
Arts/humanities	97,000	50,000	31,000	15,000	3,000	40,000	10,000	29,000	7,000	1,000	5,000
Male	48,000	28,000	17,000	9,000	S	17,000	5,000	13,000	2,000	S	S
Female	49,000	22,000	14,000	6,000	S	23,000	6,000	17,000	5,000	S	4,000
Education, except science/mathematics teacher education	606,000	110,000	68,000	16,000	26,000	468,000	30,000	438,000	29,000	8,000	20,000
Male	251,000	55,000	40,000	8,000	7,000	182,000	11,000	172,000	14,000	6,000	9,000
Female	355,000	55,000	28,000	7,000	19,000	286,000	19,000	267,000	14,000	3,000	12,000
Management/administration	882,000	749,000	662,000	44,000	44,000	54,000	29,000	25,000	79,000	45,000	34,000
Male	657,000	569,000	520,000	31,000	19,000	30,000	14,000	16,000	58,000	35,000	23,000
Female	225,000	180,000	142,000	13,000	25,000	24,000	15,000	9,000	21,000	11,000	10,000
Sales/marketing	90,000	82,000	70,000	8,000	4,000	5,000	3,000	2,000	2,000	S	2,000
Male	64,000	59,000	52,000	5,000	2,000	3,000	S	S	2,000	S	1,000
Female	25,000	23,000	18,000	3,000	S	2,000	S	S	S	S	S
Social services/related	248,000	163,000	49,000	23,000	90,000	41,000	11,000	31,000	44,000	5,000	39,000
Male	97,000	68,000	23,000	9,000	36,000	15,000	5,000	11,000	14,000	4,000	10,000
Female	151,000	95,000	26,000	14,000	54,000	26,000	6,000	20,000	30,000	S	29,000
Other non-S&E fields	222,000	102,000	73,000	11,000	18,000	42,000	23,000	19,000	79,000	22,000	57,000
Male	125,000	58,000	43,000	8,000	7,000	23,000	16,000	7,000	45,000	15,000	29,000
Female	97,000	44,000	30,000	3,000	11,000	19,000	8,000	11,000	34,000	7,000	27,000
Doctorate degrees	885,000	366,000	267,000	48,000	52,000	444,000	385,000	59,000	75,000	50,000	25,000
Male	627,000	275,000	215,000	28,000	32,000	298,000	263,000	35,000	54,000	37,000	16,000
Female	258,000	91,000	52,000	19,000	20,000	146,000	122,000	24,000	21,000	13,000	8,000
S&E fields	690,000	303,000	230,000	39,000	33,000	324,000	300,000	24,000	63,000	45,000	18,000
Male	513,000	236,000	190,000	25,000	21,000	230,000	215,000	14,000	47,000	34,000	13,000
Female	177,000	67,000	40,000	15,000	13,000	94,000	85,000	9,000	16,000	11,000	5,000
Sciences	568,000	225,000	161,000	34,000	30,000	289,000	267,000	22,000	53,000	38,000	16,000
Male	401,000	164,000	126,000	20,000	18,000	199,000	186,000	13,000	38,000	27,000	11,000
Female	167,000	62,000	35,000	14,000	12,000	90,000	81,000	9,000	15,000	10,000	5,000
Biological/agricultural/environmental life sciences	191,000	65,000	49,000	5,000	10,000	106,000	100,000	6,000	20,000	17,000	4,000
Male	131,000	47,000	37,000	4,000	6,000	71,000	68,000	3,000	13,000	11,000	3,000
Female	59,000	18,000	13,000	1,000	4,000	34,000	32,000	2,000	7,000	6,000	1,000
Agricultural/food sciences	19,000	8,000	7,000	1,000	1,000	9,000	9,000	*	2,000	2,000	*
Male	16,000	7,000	6,000	1,000	1,000	7,000	7,000	*	2,000	1,000	*
Female	3,000	1,000	1,000	*	S	2,000	2,000	*	*	*	*
Biological sciences	165,000	55,000	41,000	4,000	9,000	94,000	89,000	5,000	16,000	14,000	3,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	111,000	38,000	30,000	3,000	5,000	63,000	60,000	3,000	10,000	9,000	2,000
Female	55,000	17,000	12,000	1,000	4,000	32,000	30,000	2,000	6,000	5,000	1,000
Environmental life sciences	6,000	2,000	1,000	*	*	2,000	2,000	*	2,000	1,000	*
Male	5,000	1,000	1,000	*	*	2,000	2,000	*	1,000	1,000	*
Female	1,000	*	*	S	*	1,000	1,000	S	*	*	S
Computer/mathematical sciences	51,000	19,000	17,000	1,000	1,000	29,000	28,000	1,000	3,000	2,000	1,000
Male	42,000	17,000	15,000	1,000	1,000	23,000	22,000	1,000	2,000	2,000	*
Female	9,000	2,000	2,000	*	*	6,000	6,000	*	1,000	*	*
Computer/information sciences	17,000	9,000	9,000	*	*	7,000	7,000	*	1,000	*	*
Male	15,000	8,000	8,000	*	*	6,000	6,000	*	*	*	S
Female	2,000	1,000	1,000	S	*	1,000	1,000	*	*	S	S
Mathematical sciences	34,000	10,000	8,000	1,000	1,000	22,000	21,000	1,000	2,000	2,000	*
Male	27,000	9,000	7,000	1,000	1,000	17,000	16,000	1,000	2,000	1,000	*
Female	7,000	1,000	1,000	*	*	5,000	5,000	*	*	*	S
Physical/related sciences	141,000	72,000	63,000	5,000	5,000	55,000	50,000	5,000	13,000	10,000	3,000
Male	120,000	62,000	54,000	4,000	4,000	46,000	43,000	3,000	11,000	9,000	3,000
Female	21,000	10,000	9,000	1,000	1,000	9,000	8,000	1,000	2,000	1,000	*
Chemistry, except biochemistry	71,000	43,000	39,000	3,000	2,000	23,000	21,000	3,000	5,000	3,000	2,000
Male	58,000	36,000	32,000	2,000	1,000	19,000	17,000	2,000	4,000	3,000	1,000
Female	13,000	8,000	7,000	*	*	5,000	4,000	1,000	1,000	1,000	*
Earth/atmospheric/ocean sciences	18,000	5,000	4,000	1,000	1,000	10,000	9,000	1,000	3,000	2,000	1,000
Male	15,000	4,000	3,000	1,000	*	8,000	7,000	*	3,000	2,000	1,000
Female	3,000	1,000	1,000	S	S	2,000	2,000	*	*	*	S
Physics/astronomy	48,000	22,000	19,000	1,000	2,000	21,000	19,000	1,000	5,000	4,000	1,000
Male	43,000	20,000	17,000	1,000	2,000	19,000	17,000	1,000	4,000	4,000	*
Female	4,000	2,000	2,000	S	*	2,000	2,000	*	1,000	*	S
Other physical sciences	4,000	2,000	2,000	*	*	1,000	1,000	S	*	*	S
Male	3,000	2,000	2,000	*	S	1,000	1,000	S	*	*	S
Female	1,000	*	S	S	S	*	*	S	*	*	S
Social/related sciences	185,000	69,000	31,000	23,000	14,000	99,000	88,000	11,000	17,000	9,000	8,000
Male	108,000	38,000	20,000	11,000	7,000	59,000	53,000	5,000	11,000	6,000	5,000
Female	78,000	31,000	12,000	12,000	7,000	40,000	35,000	5,000	6,000	3,000	3,000
Economics	24,000	7,000	5,000	1,000	1,000	13,000	13,000	*	3,000	3,000	1,000
Male	20,000	6,000	4,000	1,000	1,000	11,000	11,000	*	3,000	2,000	*
Female	4,000	1,000	1,000	S	*	2,000	2,000	S	1,000	1,000	*

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Political/related sciences	21,000	5,000	3,000	1,000	1,000	14,000	13,000	1,000	2,000	1,000	1,000
Male	15,000	4,000	2,000	1,000	1,000	10,000	9,000	1,000	1,000	1,000	1,000
Female	5,000	1,000	1,000	*	*	4,000	4,000	*	*	*	*
Psychology	96,000	47,000	18,000	20,000	9,000	41,000	34,000	7,000	9,000	3,000	5,000
Male	48,000	23,000	10,000	8,000	4,000	20,000	17,000	3,000	5,000	2,000	3,000
Female	49,000	24,000	8,000	11,000	5,000	21,000	17,000	4,000	4,000	1,000	2,000
Sociology/anthropology	27,000	6,000	2,000	1,000	3,000	19,000	18,000	1,000	2,000	1,000	1,000
Male	14,000	3,000	1,000	*	1,000	10,000	9,000	1,000	1,000	1,000	1,000
Female	13,000	3,000	1,000	*	2,000	9,000	8,000	1,000	1,000	1,000	*
Other social sciences	18,000	4,000	3,000	1,000	1,000	12,000	11,000	1,000	1,000	1,000	1,000
Male	11,000	3,000	2,000	*	*	8,000	7,000	1,000	1,000	*	*
Female	7,000	2,000	1,000	*	*	5,000	4,000	1,000	*	*	*
Engineering	122,000	78,000	69,000	5,000	3,000	35,000	33,000	1,000	10,000	8,000	2,000
Male	112,000	72,000	64,000	5,000	3,000	31,000	30,000	1,000	9,000	7,000	2,000
Female	10,000	6,000	5,000	*	*	4,000	4,000	*	1,000	1,000	*
Aerospace/related engineering	6,000	4,000	3,000	*	*	2,000	2,000	S	1,000	1,000	S
Male	6,000	4,000	3,000	*	*	1,000	1,000	S	1,000	1,000	S
Female	*	S	S	S	S	*	*	S	S	S	S
Chemical engineering	16,000	12,000	11,000	1,000	1,000	3,000	3,000	*	1,000	1,000	1,000
Male	15,000	11,000	10,000	1,000	1,000	3,000	2,000	*	1,000	1,000	1,000
Female	2,000	1,000	1,000	S	S	*	*	S	*	*	S
Civil/architectural engineering	11,000	6,000	5,000	*	*	4,000	4,000	S	1,000	1,000	*
Male	10,000	5,000	5,000	*	*	4,000	4,000	S	1,000	1,000	*
Female	1,000	*	*	S	S	*	*	S	*	S	S
Electrical/computer engineering	36,000	24,000	21,000	2,000	1,000	10,000	10,000	*	2,000	2,000	*
Male	33,000	22,000	20,000	2,000	1,000	9,000	9,000	*	2,000	2,000	*
Female	3,000	2,000	2,000	S	S	1,000	1,000	*	*	*	S
Industrial engineering	4,000	2,000	2,000	S	S	2,000	2,000	S	*	*	S
Male	3,000	2,000	2,000	S	S	1,000	1,000	S	S	S	S
Female	1,000	*	*	S	S	1,000	1,000	S	*	*	S
Mechanical engineering	15,000	10,000	9,000	1,000	*	4,000	4,000	*	1,000	1,000	S
Male	14,000	10,000	9,000	1,000	*	4,000	4,000	*	1,000	1,000	S
Female	1,000	*	*	S	S	*	*	S	S	S	S
Other engineering	34,000	20,000	18,000	1,000	1,000	10,000	9,000	1,000	4,000	3,000	1,000
Male	31,000	18,000	16,000	1,000	1,000	9,000	8,000	*	4,000	3,000	1,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	4,000	2,000	2,000	S	*	1,000	1,000	S	*	*	S
S&E-related fields	59,000	24,000	17,000	2,000	4,000	30,000	27,000	4,000	5,000	2,000	3,000
Male	31,000	15,000	13,000	1,000	2,000	14,000	13,000	1,000	2,000	1,000	1,000
Female	28,000	9,000	5,000	1,000	3,000	16,000	14,000	3,000	3,000	1,000	2,000
Health	41,000	17,000	11,000	2,000	4,000	20,000	19,000	1,000	4,000	2,000	2,000
Male	18,000	8,000	6,000	1,000	1,000	8,000	8,000	*	2,000	1,000	1,000
Female	23,000	8,000	5,000	1,000	3,000	12,000	11,000	*	3,000	1,000	2,000
Science/mathematics teacher education	9,000	S	S	S	S	8,000	5,000	3,000	S	S	S
Male	4,000	S	S	S	S	4,000	4,000	S	S	S	S
Female	4,000	S	S	S	S	4,000	2,000	2,000	S	S	S
Technology/technical fields	3,000	2,000	2,000	S	S	S	S	S	S	S	S
Male	3,000	2,000	2,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Other S&E-related fields	7,000	5,000	S	S	S	2,000	2,000	S	S	S	S
Male	6,000	S	S	S	S	1,000	1,000	S	S	S	S
Female	1,000	S	S	S	S	S	S	S	S	S	S
Non-S&E fields	136,000	40,000	19,000	6,000	14,000	90,000	59,000	31,000	7,000	3,000	4,000
Male	84,000	25,000	12,000	3,000	9,000	54,000	35,000	19,000	5,000	2,000	3,000
Female	53,000	15,000	7,000	3,000	5,000	36,000	24,000	12,000	2,000	S	1,000
Arts/humanities	17,000	3,000	2,000	S	S	12,000	10,000	2,000	S	S	S
Male	10,000	2,000	1,000	S	S	7,000	5,000	2,000	S	S	S
Female	7,000	1,000	S	S	S	5,000	4,000	1,000	S	S	S
Education, except science/mathematics teacher education	64,000	11,000	4,000	2,000	5,000	52,000	26,000	25,000	2,000	S	1,000
Male	35,000	5,000	S	S	2,000	29,000	14,000	15,000	S	S	S
Female	29,000	5,000	1,000	2,000	2,000	23,000	12,000	10,000	S	S	S
Management/administration	14,000	7,000	5,000	S	S	8,000	7,000	S	S	S	S
Male	12,000	6,000	4,000	S	S	6,000	6,000	S	S	S	S
Female	2,000	S	S	S	S	1,000	1,000	S	S	S	S
Sales/marketing	2,000	S	S	S	S	1,000	1,000	S	S	S	S
Male	1,000	S	S	S	S	1,000	1,000	S	S	S	S
Female	1,000	S	S	S	S	1,000	1,000	S	S	S	S
Social services/related	19,000	8,000	2,000	S	6,000	10,000	7,000	2,000	S	S	S
Male	14,000	6,000	S	S	5,000	7,000	5,000	S	S	S	S
Female	5,000	2,000	S	S	S	3,000	3,000	S	S	S	S

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Other non-S&E fields	21,000	11,000	7,000	S	3,000	8,000	7,000	1,000	2,000	S	2,000
Male	12,000	6,000	4,000	S	S	4,000	4,000	S	2,000	S	S
Female	9,000	5,000	3,000	S	S	3,000	3,000	S	S	S	S

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
All degree levels and fields[a]	18,021,000	4,910,000	3,072,000	10,680,000	2,912,000	7,006,000
Business/industry	12,477,000	3,389,000	812,000	8,095,000	2,234,000	5,032,000
4-year college/university	1,505,000	673,000	570,000	571,000	167,000	558,000
Other educational institution	1,896,000	290,000	1,508,000	699,000	166,000	434,000
Government	2,142,000	559,000	182,000	1,316,000	345,000	983,000
S&E fields	9,579,000	3,201,000	1,145,000	5,948,000	1,882,000	2,684,000
Business/industry	6,826,000	2,236,000	252,000	4,602,000	1,490,000	1,887,000
4-year college/university	810,000	468,000	291,000	298,000	110,000	165,000
Other educational institution	688,000	111,000	527,000	258,000	61,000	161,000
Government	1,255,000	386,000	75,000	790,000	221,000	472,000
Sciences	7,245,000	2,052,000	1,050,000	4,537,000	1,366,000	2,196,000
Business/industry	4,879,000	1,276,000	221,000	3,395,000	1,044,000	1,475,000
4-year college/university	717,000	403,000	258,000	277,000	91,000	154,000
Other educational institution	655,000	103,000	503,000	247,000	58,000	155,000
Government	994,000	270,000	69,000	617,000	174,000	412,000
Biological/agricultural/environmental life sciences	1,481,000	520,000	226,000	874,000	161,000	510,000
Business/industry	911,000	253,000	47,000	611,000	105,000	356,000
4-year college/university	247,000	171,000	70,000	92,000	19,000	57,000
Other educational institution	106,000	16,000	94,000	43,000	5,000	21,000
Government	217,000	80,000	15,000	129,000	31,000	76,000
Agricultural/food sciences	249,000	66,000	27,000	176,000	19,000	100,000
Business/industry	176,000	38,000	5,000	137,000	11,000	74,000
4-year college/university	25,000	17,000	6,000	12,000	2,000	7,000
Other educational institution	15,000	2,000	14,000	5,000	S	6,000
Government	34,000	9,000	2,000	22,000	5,000	13,000
Biological sciences	1,081,000	405,000	187,000	590,000	122,000	358,000
Business/industry	645,000	190,000	40,000	403,000	83,000	247,000
4-year college/university	211,000	149,000	62,000	74,000	16,000	48,000
Other educational institution	85,000	12,000	74,000	35,000	5,000	14,000
Government	139,000	54,000	11,000	79,000	18,000	50,000
Environmental life sciences	151,000	49,000	12,000	108,000	21,000	52,000
Business/industry	90,000	25,000	2,000	71,000	11,000	36,000
4-year college/university	11,000	5,000	3,000	6,000	2,000	3,000
Other educational institution	6,000	2,000	5,000	3,000	S	S
Government	44,000	17,000	2,000	28,000	8,000	13,000
Computer/mathematical sciences	1,437,000	536,000	159,000	763,000	734,000	197,000
Business/industry	1,113,000	425,000	24,000	627,000	616,000	152,000
4-year college/university	101,000	50,000	40,000	35,000	38,000	9,000
Other educational institution	109,000	19,000	90,000	42,000	22,000	10,000
Government	114,000	42,000	4,000	58,000	58,000	27,000
Computer/information sciences	961,000	380,000	45,000	503,000	583,000	113,000
Business/industry	798,000	323,000	12,000	431,000	499,000	85,000
4-year college/university	49,000	23,000	9,000	20,000	28,000	4,000
Other educational institution	35,000	8,000	21,000	13,000	14,000	3,000
Government	78,000	25,000	3,000	39,000	43,000	21,000
Mathematical sciences	476,000	156,000	114,000	260,000	150,000	85,000
Business/industry	315,000	102,000	12,000	197,000	118,000	67,000
4-year college/university	51,000	26,000	31,000	14,000	10,000	5,000
Other educational institution	74,000	11,000	70,000	29,000	7,000	6,000
Government	36,000	17,000	1,000	19,000	15,000	6,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Physical/related sciences	694,000	321,000	100,000	363,000	112,000	180,000
Business/industry	458,000	206,000	12,000	274,000	76,000	130,000
4-year college/university	101,000	70,000	40,000	25,000	13,000	14,000
Other educational institution	52,000	8,000	44,000	19,000	6,000	7,000
Government	82,000	37,000	3,000	45,000	16,000	29,000
Chemistry, except biochemistry	326,000	149,000	45,000	179,000	30,000	93,000
Business/industry	230,000	103,000	7,000	144,000	23,000	69,000
4-year college/university	44,000	31,000	18,000	12,000	3,000	7,000
Other educational institution	24,000	4,000	19,000	9,000	1,000	3,000
Government	28,000	11,000	1,000	14,000	3,000	13,000
Earth/atmospheric/ocean sciences	170,000	73,000	23,000	93,000	29,000	50,000
Business/industry	105,000	42,000	3,000	64,000	17,000	33,000
4-year college/university	17,000	13,000	7,000	4,000	2,000	3,000
Other educational institution	13,000	2,000	12,000	6,000	1,000	3,000
Government	34,000	16,000	1,000	20,000	9,000	11,000
Physics/astronomy	152,000	84,000	27,000	63,000	45,000	26,000
Business/industry	95,000	52,000	1,000	48,000	33,000	18,000
4-year college/university	34,000	24,000	15,000	6,000	6,000	4,000
Other educational institution	12,000	2,000	11,000	3,000	3,000	1,000
Government	12,000	6,000	S	6,000	2,000	3,000
Other physical sciences	45,000	15,000	6,000	28,000	7,000	12,000
Business/industry	27,000	8,000	1,000	18,000	3,000	10,000
4-year college/university	6,000	3,000	*	3,000	S	S
Other educational institution	3,000	S	2,000	1,000	S	S
Government	9,000	4,000	2,000	5,000	1,000	2,000
Social/related sciences	3,633,000	676,000	565,000	2,537,000	360,000	1,309,000
Business/industry	2,399,000	392,000	138,000	1,883,000	246,000	837,000
4-year college/university	268,000	112,000	107,000	126,000	20,000	73,000
Other educational institution	387,000	61,000	274,000	143,000	25,000	118,000
Government	580,000	110,000	46,000	386,000	69,000	281,000
Economics	551,000	102,000	37,000	439,000	70,000	149,000
Business/industry	467,000	73,000	9,000	395,000	59,000	127,000
4-year college/university	29,000	15,000	15,000	13,000	4,000	4,000
Other educational institution	13,000	2,000	10,000	6,000	1,000	1,000
Government	41,000	11,000	3,000	25,000	6,000	17,000
Political/related sciences	666,000	122,000	76,000	515,000	65,000	214,000
Business/industry	464,000	72,000	25,000	392,000	47,000	153,000
4-year college/university	42,000	15,000	16,000	21,000	2,000	7,000
Other educational institution	34,000	5,000	27,000	13,000	4,000	6,000
Government	126,000	29,000	8,000	89,000	12,000	48,000
Psychology	1,335,000	229,000	256,000	855,000	116,000	600,000
Business/industry	814,000	128,000	68,000	592,000	74,000	354,000
4-year college/university	103,000	44,000	34,000	48,000	6,000	38,000
Other educational institution	212,000	27,000	136,000	77,000	12,000	89,000
Government	207,000	30,000	18,000	138,000	24,000	119,000
Sociology/anthropology	684,000	127,000	122,000	465,000	73,000	232,000
Business/industry	410,000	64,000	27,000	317,000	43,000	134,000
4-year college/university	56,000	24,000	25,000	26,000	5,000	15,000
Other educational institution	70,000	15,000	56,000	19,000	5,000	14,000
Government	147,000	24,000	13,000	103,000	20,000	69,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other social sciences	398,000	96,000	75,000	263,000	35,000	114,000
Business/industry	244,000	54,000	10,000	187,000	23,000	69,000
4-year college/university	38,000	15,000	16,000	17,000	3,000	9,000
Other educational institution	58,000	11,000	45,000	27,000	3,000	9,000
Government	58,000	16,000	4,000	31,000	7,000	27,000
Engineering	2,334,000	1,149,000	96,000	1,411,000	516,000	488,000
Business/industry	1,947,000	959,000	31,000	1,207,000	446,000	412,000
4-year college/university	93,000	65,000	34,000	21,000	20,000	11,000
Other educational institution	33,000	8,000	24,000	11,000	3,000	5,000
Government	261,000	116,000	6,000	172,000	47,000	60,000
Aerospace/related engineering	85,000	44,000	5,000	51,000	18,000	17,000
Business/industry	70,000	35,000	3,000	44,000	14,000	16,000
4-year college/university	4,000	2,000	1,000	1,000	1,000	*
Other educational institution	*	S	*	S	S	S
Government	11,000	6,000	S	6,000	2,000	1,000
Chemical engineering	159,000	73,000	6,000	103,000	22,000	43,000
Business/industry	135,000	60,000	1,000	91,000	18,000	37,000
4-year college/university	9,000	7,000	3,000	1,000	1,000	2,000
Other educational institution	2,000	S	2,000	S	S	S
Government	14,000	5,000	S	10,000	2,000	4,000
Civil/architectural engineering	385,000	158,000	11,000	284,000	53,000	80,000
Business/industry	283,000	113,000	2,000	216,000	37,000	59,000
4-year college/university	9,000	6,000	4,000	3,000	1,000	1,000
Other educational institution	5,000	2,000	3,000	2,000	S	S
Government	88,000	37,000	1,000	64,000	14,000	19,000
Electrical/computer engineering	748,000	423,000	34,000	361,000	275,000	121,000
Business/industry	655,000	370,000	13,000	323,000	250,000	106,000
4-year college/university	30,000	21,000	12,000	6,000	8,000	3,000
Other educational institution	8,000	2,000	6,000	1,000	2,000	S
Government	56,000	29,000	2,000	30,000	16,000	12,000
Industrial engineering	134,000	48,000	6,000	97,000	24,000	31,000
Business/industry	116,000	41,000	2,000	86,000	22,000	28,000
4-year college/university	3,000	2,000	2,000	1,000	*	*
Other educational institution	3,000	S	2,000	3,000	S	S
Government	12,000	4,000	S	8,000	2,000	3,000
Mechanical engineering	492,000	254,000	17,000	315,000	67,000	104,000
Business/industry	426,000	224,000	4,000	280,000	59,000	91,000
4-year college/university	16,000	11,000	5,000	4,000	3,000	1,000
Other educational institution	7,000	1,000	6,000	3,000	S	1,000
Government	42,000	18,000	S	29,000	4,000	11,000
Other engineering	330,000	150,000	17,000	201,000	57,000	92,000
Business/industry	262,000	116,000	6,000	167,000	45,000	76,000
4-year college/university	22,000	15,000	7,000	5,000	4,000	4,000
Other educational institution	7,000	1,000	4,000	3,000	*	3,000
Government	39,000	17,000	*	26,000	8,000	10,000
S&E-related fields	4,383,000	786,000	1,017,000	2,193,000	318,000	2,855,000
Business/industry	3,093,000	535,000	413,000	1,699,000	222,000	2,129,000
4-year college/university	469,000	127,000	183,000	158,000	25,000	329,000
Other educational institution	438,000	60,000	349,000	141,000	33,000	129,000
Government	384,000	64,000	72,000	195,000	38,000	267,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Health	3,373,000	452,000	764,000	1,577,000	158,000	2,630,000
Business/industry	2,435,000	274,000	389,000	1,243,000	108,000	1,959,000
4-year college/university	433,000	112,000	164,000	144,000	19,000	323,000
Other educational institution	201,000	23,000	143,000	53,000	9,000	109,000
Government	304,000	43,000	67,000	138,000	22,000	239,000
Science/mathematics teacher education	340,000	63,000	218,000	154,000	38,000	58,000
Business/industry	94,000	20,000	11,000	59,000	12,000	34,000
4-year college/university	15,000	6,000	13,000	5,000	3,000	S
Other educational institution	214,000	34,000	191,000	80,000	20,000	17,000
Government	16,000	4,000	3,000	10,000	4,000	5,000
Technology/technical fields	334,000	129,000	18,000	217,000	93,000	67,000
Business/industry	288,000	117,000	9,000	192,000	80,000	56,000
4-year college/university	8,000	3,000	1,000	4,000	3,000	1,000
Other educational institution	11,000	2,000	8,000	3,000	3,000	S
Government	27,000	6,000	S	18,000	8,000	8,000
Other S&E-related fields	336,000	142,000	16,000	245,000	29,000	100,000
Business/industry	276,000	124,000	5,000	205,000	23,000	79,000
4-year college/university	12,000	6,000	4,000	6,000	S	3,000
Other educational institution	11,000	S	7,000	4,000	S	S
Government	37,000	11,000	S	29,000	4,000	15,000
Non-S&E fields	4,059,000	923,000	910,000	2,539,000	712,000	1,467,000
Business/industry	2,558,000	617,000	146,000	1,794,000	522,000	1,016,000
4-year college/university	227,000	78,000	96,000	114,000	32,000	64,000
Other educational institution	771,000	119,000	632,000	300,000	72,000	144,000
Government	503,000	109,000	35,000	331,000	86,000	244,000
Arts/humanities	366,000	121,000	88,000	193,000	101,000	107,000
Business/industry	241,000	87,000	12,000	144,000	81,000	78,000
4-year college/university	34,000	12,000	17,000	14,000	5,000	14,000
Other educational institution	61,000	10,000	57,000	19,000	7,000	5,000
Government	30,000	13,000	2,000	15,000	8,000	10,000
Education, except science/mathematics teacher education	890,000	158,000	538,000	429,000	94,000	224,000
Business/industry	201,000	40,000	23,000	124,000	32,000	88,000
4-year college/university	62,000	20,000	31,000	32,000	4,000	16,000
Other educational institution	576,000	90,000	476,000	239,000	46,000	95,000
Government	51,000	8,000	8,000	34,000	12,000	24,000
Management/administration	1,367,000	381,000	102,000	1,013,000	362,000	297,000
Business/industry	1,137,000	322,000	38,000	873,000	302,000	250,000
4-year college/university	52,000	18,000	16,000	30,000	13,000	10,000
Other educational institution	48,000	5,000	37,000	16,000	9,000	9,000
Government	130,000	35,000	11,000	94,000	39,000	29,000
Sales/marketing	144,000	34,000	10,000	111,000	29,000	33,000
Business/industry	127,000	29,000	4,000	102,000	24,000	28,000
4-year college/university	7,000	3,000	2,000	2,000	S	2,000
Other educational institution	4,000	S	3,000	2,000	S	S
Government	7,000	1,000	S	5,000	2,000	3,000
Social services/related	317,000	46,000	85,000	161,000	26,000	205,000
Business/industry	211,000	30,000	49,000	112,000	17,000	141,000
4-year college/university	21,000	5,000	10,000	10,000	2,000	8,000
Other educational institution	35,000	5,000	19,000	12,000	3,000	21,000
Government	50,000	6,000	7,000	27,000	5,000	35,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other non-S&E fields	975,000	183,000	88,000	632,000	100,000	600,000
Business/industry	642,000	109,000	22,000	438,000	66,000	431,000
4-year college/university	52,000	20,000	19,000	27,000	7,000	13,000
Other educational institution	47,000	9,000	39,000	12,000	7,000	15,000
Government	235,000	45,000	8,000	156,000	20,000	142,000
Bachelor's degrees, all fields	10,490,000	2,722,000	1,398,000	6,573,000	1,991,000	3,674,000
Business/industry	7,801,000	2,072,000	473,000	5,240,000	1,568,000	2,700,000
4-year college/university	566,000	202,000	122,000	250,000	93,000	252,000
Other educational institution	841,000	129,000	693,000	300,000	84,000	161,000
Government	1,281,000	319,000	109,000	782,000	245,000	562,000
S&E fields	6,953,000	1,979,000	666,000	4,633,000	1,370,000	1,983,000
Business/industry	5,250,000	1,508,000	189,000	3,705,000	1,095,000	1,453,000
4-year college/university	326,000	146,000	60,000	155,000	62,000	94,000
Other educational institution	450,000	72,000	359,000	181,000	42,000	78,000
Government	927,000	253,000	59,000	593,000	171,000	358,000
Sciences	5,276,000	1,235,000	610,000	3,552,000	1,017,000	1,603,000
Business/industry	3,819,000	868,000	161,000	2,768,000	788,000	1,127,000
4-year college/university	294,000	127,000	53,000	147,000	54,000	87,000
Other educational institution	427,000	66,000	343,000	173,000	41,000	74,000
Government	736,000	174,000	53,000	464,000	135,000	314,000
Biological/agricultural/environmental life sciences	1,082,000	294,000	129,000	691,000	131,000	411,000
Business/industry	737,000	171,000	33,000	513,000	87,000	298,000
4-year college/university	108,000	65,000	18,000	46,000	12,000	38,000
Other educational institution	77,000	11,000	67,000	33,000	4,000	16,000
Government	160,000	47,000	10,000	100,000	27,000	59,000
Agricultural/food sciences	199,000	37,000	17,000	152,000	16,000	85,000
Business/industry	149,000	26,000	3,000	123,000	9,000	64,000
4-year college/university	9,000	4,000	1,000	6,000	2,000	4,000
Other educational institution	12,000	1,000	12,000	4,000	S	5,000
Government	29,000	5,000	2,000	20,000	5,000	12,000
Biological sciences	767,000	224,000	106,000	452,000	99,000	287,000
Business/industry	517,000	126,000	28,000	331,000	71,000	206,000
4-year college/university	92,000	58,000	17,000	36,000	9,000	31,000
Other educational institution	61,000	9,000	53,000	27,000	4,000	10,000
Government	98,000	31,000	7,000	58,000	16,000	39,000
Environmental life sciences	116,000	33,000	6,000	87,000	16,000	39,000
Business/industry	72,000	19,000	1,000	59,000	8,000	28,000
4-year college/university	6,000	2,000	S	4,000	S	S
Other educational institution	4,000	1,000	3,000	2,000	S	S
Government	34,000	11,000	2,000	22,000	6,000	8,000
Computer/mathematical sciences	1,010,000	347,000	91,000	560,000	526,000	150,000
Business/industry	807,000	289,000	17,000	466,000	445,000	114,000
4-year college/university	39,000	14,000	6,000	20,000	23,000	5,000
Other educational institution	79,000	14,000	65,000	33,000	16,000	6,000
Government	85,000	31,000	2,000	41,000	43,000	25,000
Computer/information sciences	667,000	250,000	25,000	354,000	415,000	81,000
Business/industry	561,000	218,000	9,000	306,000	355,000	58,000
4-year college/university	25,000	8,000	1,000	13,000	17,000	3,000
Other educational institution	24,000	6,000	13,000	9,000	11,000	1,000
Government	57,000	18,000	1,000	26,000	31,000	19,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Mathematical sciences	343,000	97,000	66,000	206,000	111,000	68,000
Business/industry	247,000	71,000	9,000	160,000	89,000	56,000
4-year college/university	15,000	5,000	4,000	7,000	6,000	2,000
Other educational institution	55,000	8,000	52,000	23,000	5,000	4,000
Government	27,000	13,000	S	15,000	12,000	6,000
Physical/related sciences	423,000	155,000	43,000	251,000	69,000	130,000
Business/industry	306,000	111,000	8,000	199,000	48,000	95,000
4-year college/university	35,000	21,000	8,000	10,000	6,000	8,000
Other educational institution	30,000	4,000	24,000	13,000	5,000	6,000
Government	53,000	19,000	3,000	28,000	10,000	21,000
Chemistry, except biochemistry	209,000	76,000	21,000	126,000	22,000	69,000
Business/industry	157,000	54,000	4,000	105,000	17,000	53,000
4-year college/university	18,000	12,000	5,000	4,000	2,000	4,000
Other educational institution	14,000	3,000	10,000	7,000	S	S
Government	19,000	6,000	S	10,000	2,000	10,000
Earth/atmospheric/ocean sciences	105,000	38,000	10,000	63,000	17,000	34,000
Business/industry	74,000	27,000	3,000	46,000	10,000	22,000
4-year college/university	4,000	2,000	1,000	2,000	*	1,000
Other educational institution	7,000	*	6,000	3,000	S	3,000
Government	21,000	8,000	S	11,000	6,000	8,000
Physics/astronomy	73,000	32,000	9,000	38,000	25,000	16,000
Business/industry	52,000	24,000	S	32,000	19,000	11,000
4-year college/university	8,000	5,000	2,000	1,000	2,000	2,000
Other educational institution	7,000	1,000	6,000	2,000	S	S
Government	5,000	1,000	S	3,000	1,000	2,000
Other physical sciences	36,000	10,000	4,000	24,000	6,000	12,000
Business/industry	23,000	6,000	S	16,000	3,000	10,000
4-year college/university	5,000	S	S	S	S	S
Other educational institution	2,000	S	2,000	S	S	S
Government	7,000	3,000	S	4,000	S	1,000
Social/related sciences	2,760,000	439,000	347,000	2,050,000	291,000	912,000
Business/industry	1,969,000	297,000	102,000	1,590,000	207,000	619,000
4-year college/university	112,000	27,000	21,000	71,000	13,000	36,000
Other educational institution	241,000	37,000	186,000	94,000	16,000	47,000
Government	439,000	78,000	38,000	295,000	55,000	210,000
Economics	455,000	68,000	18,000	379,000	56,000	124,000
Business/industry	407,000	60,000	7,000	349,000	48,000	107,000
4-year college/university	10,000	2,000	2,000	7,000	2,000	3,000
Other educational institution	8,000	*	6,000	4,000	S	S
Government	30,000	5,000	S	19,000	4,000	14,000
Political/related sciences	548,000	88,000	54,000	433,000	53,000	183,000
Business/industry	407,000	58,000	22,000	345,000	39,000	136,000
4-year college/university	20,000	4,000	4,000	13,000	2,000	4,000
Other educational institution	28,000	4,000	22,000	11,000	2,000	5,000
Government	94,000	22,000	6,000	64,000	9,000	38,000
Psychology	849,000	129,000	136,000	601,000	87,000	309,000
Business/industry	569,000	85,000	40,000	439,000	60,000	201,000
4-year college/university	41,000	13,000	5,000	25,000	4,000	14,000
Other educational institution	102,000	13,000	78,000	41,000	6,000	21,000
Government	137,000	18,000	13,000	96,000	17,000	72,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Sociology/anthropology	605,000	92,000	94,000	427,000	66,000	210,000
Business/industry	381,000	53,000	25,000	298,000	40,000	123,000
4-year college/university	27,000	6,000	7,000	18,000	3,000	11,000
Other educational institution	63,000	13,000	49,000	17,000	4,000	13,000
Government	134,000	20,000	13,000	94,000	19,000	64,000
Other social sciences	303,000	62,000	46,000	210,000	29,000	86,000
Business/industry	204,000	41,000	8,000	159,000	19,000	53,000
4-year college/university	14,000	3,000	3,000	7,000	2,000	4,000
Other educational institution	41,000	6,000	31,000	21,000	3,000	7,000
Government	44,000	12,000	3,000	23,000	6,000	21,000
Engineering	1,677,000	745,000	56,000	1,081,000	354,000	380,000
Business/industry	1,431,000	641,000	28,000	936,000	307,000	326,000
4-year college/university	32,000	19,000	7,000	8,000	8,000	6,000
Other educational institution	23,000	6,000	16,000	8,000	2,000	4,000
Government	191,000	79,000	6,000	128,000	36,000	44,000
Aerospace/related engineering	64,000	30,000	4,000	43,000	13,000	14,000
Business/industry	54,000	25,000	3,000	37,000	11,000	13,000
4-year college/university	1,000	1,000	*	1,000	1,000	S
Other educational institution	S	S	S	S	S	S
Government	8,000	4,000	S	5,000	2,000	1,000
Chemical engineering	116,000	48,000	3,000	78,000	14,000	36,000
Business/industry	100,000	40,000	1,000	71,000	12,000	32,000
4-year college/university	4,000	3,000	1,000	S	1,000	2,000
Other educational institution	1,000	S	1,000	S	S	S
Government	10,000	4,000	S	7,000	1,000	3,000
Civil/architectural engineering	288,000	107,000	5,000	222,000	37,000	57,000
Business/industry	214,000	76,000	2,000	168,000	25,000	41,000
4-year college/university	3,000	1,000	1,000	1,000	S	S
Other educational institution	3,000	2,000	2,000	S	S	S
Government	68,000	28,000	S	51,000	11,000	14,000
Electrical/computer engineering	518,000	268,000	23,000	265,000	190,000	99,000
Business/industry	461,000	240,000	12,000	239,000	174,000	87,000
4-year college/university	9,000	5,000	3,000	2,000	3,000	2,000
Other educational institution	6,000	2,000	5,000	1,000	1,000	S
Government	42,000	21,000	S	24,000	12,000	10,000
Industrial engineering	101,000	31,000	3,000	79,000	17,000	25,000
Business/industry	91,000	29,000	1,000	71,000	15,000	24,000
4-year college/university	1,000	1,000	S	S	S	S
Other educational institution	2,000	S	2,000	2,000	S	S
Government	7,000	1,000	S	6,000	1,000	1,000
Mechanical engineering	393,000	186,000	11,000	265,000	46,000	91,000
Business/industry	346,000	168,000	3,000	238,000	41,000	80,000
4-year college/university	7,000	4,000	1,000	2,000	1,000	1,000
Other educational institution	6,000	1,000	5,000	2,000	S	S
Government	34,000	13,000	S	23,000	4,000	9,000
Other engineering	197,000	74,000	7,000	130,000	37,000	58,000
Business/industry	165,000	63,000	5,000	112,000	30,000	48,000
4-year college/university	7,000	4,000	1,000	2,000	2,000	2,000
Other educational institution	4,000	S	1,000	S	S	S
Government	21,000	7,000	S	13,000	5,000	6,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
S&E-related fields	2,322,000	400,000	490,000	1,260,000	218,000	1,352,000
Business/industry	1,704,000	309,000	234,000	1,010,000	159,000	994,000
4-year college/university	191,000	38,000	55,000	72,000	16,000	141,000
Other educational institution	206,000	25,000	162,000	66,000	16,000	62,000
Government	221,000	28,000	40,000	112,000	27,000	155,000
Health	1,621,000	174,000	363,000	806,000	108,000	1,185,000
Business/industry	1,186,000	115,000	214,000	643,000	74,000	859,000
4-year college/university	176,000	32,000	51,000	64,000	12,000	137,000
Other educational institution	89,000	9,000	60,000	24,000	7,000	50,000
Government	170,000	18,000	37,000	75,000	15,000	139,000
Science/mathematics teacher education	185,000	31,000	101,000	92,000	14,000	41,000
Business/industry	72,000	16,000	8,000	47,000	6,000	27,000
4-year college/university	S	S	S	S	S	S
Other educational institution	101,000	14,000	91,000	37,000	5,000	10,000
Government	10,000	2,000	S	6,000	2,000	4,000
Technology/technical fields	282,000	102,000	15,000	190,000	74,000	59,000
Business/industry	246,000	94,000	8,000	170,000	63,000	50,000
4-year college/university	6,000	2,000	S	3,000	2,000	S
Other educational institution	8,000	2,000	5,000	3,000	2,000	S
Government	21,000	5,000	S	14,000	7,000	6,000
Other S&E-related fields	235,000	93,000	12,000	172,000	22,000	67,000
Business/industry	201,000	85,000	4,000	150,000	17,000	58,000
4-year college/university	5,000	3,000	S	3,000	S	S
Other educational institution	8,000	S	6,000	S	S	S
Government	20,000	4,000	S	16,000	3,000	7,000
Non-S&E fields	1,215,000	343,000	242,000	679,000	403,000	340,000
Business/industry	847,000	255,000	51,000	525,000	314,000	253,000
4-year college/university	50,000	18,000	7,000	23,000	16,000	17,000
Other educational institution	186,000	32,000	172,000	53,000	26,000	21,000
Government	132,000	37,000	11,000	78,000	46,000	49,000
Arts/humanities	252,000	85,000	40,000	137,000	82,000	77,000
Business/industry	187,000	67,000	8,000	112,000	68,000	60,000
4-year college/university	14,000	4,000	S	8,000	4,000	8,000
Other educational institution	29,000	5,000	27,000	8,000	4,000	S
Government	22,000	10,000	1,000	9,000	7,000	8,000
Education, except science/mathematics teacher education	217,000	39,000	118,000	94,000	40,000	60,000
Business/industry	80,000	18,000	9,000	44,000	18,000	33,000
4-year college/university	5,000	2,000	S	3,000	S	3,000
Other educational institution	111,000	18,000	106,000	33,000	14,000	12,000
Government	21,000	2,000	3,000	13,000	8,000	12,000
Management/administration	468,000	139,000	46,000	292,000	202,000	104,000
Business/industry	379,000	115,000	20,000	249,000	166,000	86,000
4-year college/university	15,000	7,000	S	6,000	7,000	3,000
Other educational institution	23,000	3,000	19,000	6,000	6,000	4,000
Government	51,000	15,000	3,000	31,000	23,000	11,000
Sales/marketing	53,000	16,000	4,000	30,000	19,000	15,000
Business/industry	45,000	14,000	S	27,000	15,000	12,000
4-year college/university	2,000	S	S	S	S	S
Other educational institution	2,000	S	1,000	S	S	S
Government	4,000	S	S	S	S	S

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Social services/related	40,000	10,000	5,000	21,000	14,000	15,000
Business/industry	31,000	9,000	3,000	14,000	11,000	14,000
4-year college/university	2,000	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	6,000	S	S	5,000	2,000	S
Other non-S&E fields	185,000	53,000	29,000	105,000	46,000	69,000
Business/industry	125,000	32,000	9,000	79,000	36,000	48,000
4-year college/university	11,000	6,000	S	4,000	3,000	3,000
Other educational institution	20,000	6,000	18,000	4,000	3,000	4,000
Government	29,000	9,000	2,000	17,000	5,000	14,000
Master's degrees, all fields	4,979,000	1,421,000	1,168,000	2,879,000	805,000	1,673,000
Business/industry	3,026,000	957,000	214,000	1,959,000	588,000	1,062,000
4-year college/university	370,000	145,000	136,000	160,000	54,000	112,000
Other educational institution	976,000	147,000	766,000	363,000	77,000	251,000
Government	607,000	172,000	52,000	396,000	84,000	249,000
S&E fields	1,919,000	765,000	274,000	1,038,000	444,000	550,000
Business/industry	1,262,000	542,000	51,000	744,000	350,000	342,000
4-year college/university	182,000	99,000	58,000	59,000	34,000	37,000
Other educational institution	213,000	34,000	151,000	69,000	17,000	75,000
Government	262,000	90,000	14,000	166,000	42,000	95,000
Sciences	1,384,000	452,000	258,000	754,000	303,000	455,000
Business/industry	824,000	282,000	49,000	506,000	228,000	265,000
4-year college/university	154,000	78,000	52,000	55,000	26,000	34,000
Other educational institution	205,000	32,000	144,000	67,000	17,000	74,000
Government	202,000	60,000	13,000	127,000	33,000	81,000
Biological/agricultural/environmental life sciences	209,000	89,000	49,000	103,000	22,000	65,000
Business/industry	109,000	43,000	11,000	61,000	14,000	41,000
4-year college/university	39,000	25,000	13,000	13,000	5,000	7,000
Other educational institution	23,000	3,000	21,000	8,000	1,000	4,000
Government	37,000	17,000	4,000	20,000	3,000	13,000
Agricultural/food sciences	31,000	16,000	6,000	15,000	2,000	12,000
Business/industry	19,000	8,000	S	9,000	S	8,000
4-year college/university	7,000	6,000	2,000	4,000	S	2,000
Other educational institution	3,000	1,000	2,000	S	S	S
Government	3,000	2,000	S	1,000	S	1,000
Biological sciences	148,000	61,000	39,000	71,000	16,000	41,000
Business/industry	74,000	29,000	9,000	41,000	9,000	25,000
4-year college/university	30,000	19,000	10,000	9,000	5,000	5,000
Other educational institution	19,000	2,000	17,000	7,000	S	3,000
Government	25,000	11,000	4,000	14,000	2,000	8,000
Environmental life sciences	30,000	12,000	4,000	18,000	5,000	12,000
Business/industry	16,000	6,000	S	11,000	3,000	8,000
4-year college/university	2,000	1,000	1,000	1,000	S	S
Other educational institution	2,000	S	2,000	S	S	S
Government	9,000	5,000	S	5,000	1,000	4,000
Computer/mathematical sciences	375,000	153,000	44,000	190,000	194,000	44,000
Business/industry	286,000	123,000	6,000	155,000	162,000	35,000
4-year college/university	33,000	16,000	13,000	10,000	13,000	3,000
Other educational institution	29,000	5,000	24,000	9,000	5,000	4,000
Government	27,000	9,000	S	16,000	14,000	2,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Computer/information sciences	277,000	116,000	15,000	144,000	163,000	30,000
Business/industry	228,000	98,000	3,000	121,000	139,000	26,000
4-year college/university	17,000	9,000	3,000	6,000	9,000	1,000
Other educational institution	11,000	2,000	7,000	4,000	3,000	S
Government	21,000	6,000	S	13,000	12,000	2,000
Mathematical sciences	98,000	36,000	29,000	47,000	31,000	13,000
Business/industry	58,000	25,000	3,000	34,000	23,000	9,000
4-year college/university	16,000	6,000	9,000	4,000	3,000	1,000
Other educational institution	18,000	2,000	17,000	5,000	2,000	2,000
Government	7,000	3,000	S	4,000	2,000	1,000
Physical/related sciences	130,000	67,000	23,000	58,000	25,000	32,000
Business/industry	79,000	45,000	2,000	40,000	17,000	23,000
4-year college/university	16,000	11,000	5,000	3,000	3,000	3,000
Other educational institution	18,000	3,000	16,000	5,000	1,000	1,000
Government	17,000	9,000	*	11,000	4,000	5,000
Chemistry, except biochemistry	46,000	25,000	10,000	21,000	4,000	12,000
Business/industry	30,000	18,000	S	16,000	3,000	8,000
4-year college/university	5,000	4,000	2,000	1,000	S	1,000
Other educational institution	7,000	1,000	7,000	2,000	S	S
Government	4,000	2,000	S	2,000	*	2,000
Earth/atmospheric/ocean sciences	47,000	22,000	6,000	25,000	10,000	14,000
Business/industry	26,000	12,000	S	15,000	6,000	10,000
4-year college/university	4,000	3,000	1,000	*	*	S
Other educational institution	6,000	1,000	5,000	2,000	S	S
Government	10,000	6,000	S	7,000	3,000	3,000
Physics/astronomy	31,000	18,000	6,000	9,000	10,000	5,000
Business/industry	20,000	13,000	S	7,000	8,000	4,000
4-year college/university	6,000	3,000	2,000	1,000	2,000	*
Other educational institution	4,000	1,000	4,000	1,000	S	S
Government	1,000	1,000	S	1,000	S	S
Other physical sciences	5,000	2,000	1,000	2,000	S	S
Business/industry	3,000	S	S	S	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	1,000	S	S	S	S	S
Social/related sciences	670,000	144,000	141,000	403,000	61,000	314,000
Business/industry	350,000	71,000	30,000	250,000	35,000	165,000
4-year college/university	66,000	26,000	21,000	29,000	5,000	22,000
Other educational institution	134,000	22,000	83,000	44,000	9,000	65,000
Government	121,000	25,000	7,000	80,000	12,000	61,000
Economics	72,000	18,000	9,000	51,000	13,000	21,000
Business/industry	52,000	10,000	S	42,000	10,000	17,000
4-year college/university	7,000	3,000	3,000	3,000	1,000	S
Other educational institution	5,000	2,000	4,000	2,000	S	S
Government	8,000	3,000	S	4,000	2,000	3,000
Political/related sciences	97,000	22,000	10,000	74,000	12,000	27,000
Business/industry	52,000	12,000	2,000	43,000	8,000	16,000
4-year college/university	9,000	3,000	2,000	4,000	S	2,000
Other educational institution	5,000	1,000	4,000	2,000	S	S
Government	31,000	6,000	S	24,000	3,000	9,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Psychology	373,000	62,000	89,000	204,000	26,000	224,000
Business/industry	187,000	32,000	23,000	124,000	12,000	108,000
4-year college/university	26,000	8,000	7,000	11,000	1,000	14,000
Other educational institution	102,000	12,000	55,000	33,000	6,000	62,000
Government	58,000	9,000	4,000	37,000	6,000	39,000
Sociology/anthropology	52,000	19,000	13,000	29,000	6,000	17,000
Business/industry	23,000	7,000	2,000	16,000	3,000	9,000
4-year college/university	11,000	6,000	4,000	3,000	2,000	3,000
Other educational institution	7,000	2,000	6,000	2,000	S	S
Government	11,000	4,000	S	7,000	S	5,000
Other social sciences	77,000	23,000	20,000	46,000	5,000	25,000
Business/industry	35,000	10,000	2,000	25,000	3,000	15,000
4-year college/university	13,000	5,000	5,000	7,000	1,000	3,000
Other educational institution	15,000	5,000	12,000	6,000	S	2,000
Government	13,000	3,000	S	7,000	1,000	5,000
Engineering	535,000	313,000	17,000	284,000	141,000	95,000
Business/industry	438,000	261,000	3,000	238,000	122,000	77,000
4-year college/university	28,000	21,000	7,000	5,000	9,000	3,000
Other educational institution	8,000	2,000	7,000	2,000	1,000	1,000
Government	60,000	30,000	S	40,000	9,000	14,000
Aerospace/related engineering	15,000	9,000	1,000	7,000	3,000	3,000
Business/industry	12,000	7,000	S	6,000	2,000	2,000
4-year college/university	1,000	1,000	*	*	*	S
Other educational institution	S	S	S	S	S	S
Government	2,000	2,000	S	1,000	1,000	S
Chemical engineering	27,000	13,000	1,000	17,000	5,000	5,000
Business/industry	23,000	11,000	S	15,000	5,000	4,000
4-year college/university	1,000	1,000	S	S	1,000	S
Other educational institution	S	S	S	S	S	S
Government	2,000	*	S	2,000	S	1,000
Civil/architectural engineering	86,000	44,000	2,000	58,000	14,000	21,000
Business/industry	63,000	34,000	S	44,000	11,000	16,000
4-year college/university	3,000	2,000	1,000	S	S	S
Other educational institution	2,000	S	2,000	S	S	S
Government	18,000	8,000	S	12,000	2,000	5,000
Electrical/computer engineering	194,000	127,000	5,000	84,000	78,000	19,000
Business/industry	171,000	112,000	1,000	75,000	71,000	16,000
4-year college/university	11,000	8,000	3,000	2,000	4,000	S
Other educational institution	1,000	S	1,000	S	S	S
Government	11,000	7,000	S	6,000	3,000	2,000
Industrial engineering	29,000	14,000	1,000	17,000	7,000	6,000
Business/industry	23,000	11,000	S	14,000	6,000	4,000
4-year college/university	1,000	1,000	S	S	S	S
Other educational institution	1,000	S	S	S	S	S
Government	4,000	2,000	S	1,000	S	S
Mechanical engineering	84,000	56,000	3,000	44,000	18,000	12,000
Business/industry	70,000	48,000	S	38,000	16,000	10,000
4-year college/university	5,000	4,000	1,000	1,000	2,000	S
Other educational institution	1,000	S	S	S	S	S
Government	7,000	4,000	S	6,000	1,000	2,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other engineering	99,000	50,000	4,000	57,000	15,000	30,000
Business/industry	76,000	39,000	S	45,000	12,000	25,000
4-year college/university	6,000	4,000	1,000	1,000	1,000	1,000
Other educational institution	2,000	S	2,000	S	S	S
Government	14,000	7,000	S	11,000	2,000	3,000
S&E-related fields	915,000	197,000	317,000	422,000	81,000	491,000
Business/industry	509,000	119,000	86,000	256,000	49,000	322,000
4-year college/university	81,000	18,000	35,000	39,000	6,000	42,000
Other educational institution	219,000	34,000	179,000	68,000	17,000	63,000
Government	106,000	26,000	16,000	59,000	9,000	63,000
Health	624,000	103,000	199,000	269,000	32,000	433,000
Business/industry	377,000	58,000	82,000	172,000	20,000	288,000
4-year college/university	68,000	15,000	26,000	34,000	4,000	40,000
Other educational institution	103,000	13,000	76,000	24,000	2,000	54,000
Government	77,000	17,000	14,000	38,000	5,000	51,000
Science/mathematics teacher education	147,000	26,000	112,000	59,000	24,000	16,000
Business/industry	22,000	4,000	3,000	11,000	6,000	7,000
4-year college/university	7,000	1,000	6,000	2,000	2,000	S
Other educational institution	111,000	19,000	100,000	42,000	15,000	7,000
Government	6,000	2,000	S	4,000	S	S
Technology/technical fields	49,000	25,000	3,000	27,000	18,000	8,000
Business/industry	40,000	21,000	S	22,000	16,000	6,000
4-year college/university	1,000	1,000	S	S	S	S
Other educational institution	3,000	S	3,000	S	S	S
Government	5,000	S	S	4,000	1,000	2,000
Other S&E-related fields	95,000	43,000	3,000	68,000	7,000	33,000
Business/industry	69,000	35,000	S	51,000	6,000	21,000
4-year college/university	5,000	2,000	2,000	2,000	S	S
Other educational institution	3,000	S	S	S	S	S
Government	17,000	6,000	S	13,000	S	9,000
Non-S&E fields	2,145,000	459,000	577,000	1,419,000	280,000	633,000
Business/industry	1,255,000	296,000	77,000	959,000	190,000	398,000
4-year college/university	107,000	29,000	43,000	62,000	14,000	32,000
Other educational institution	544,000	79,000	437,000	226,000	43,000	112,000
Government	239,000	55,000	22,000	171,000	33,000	90,000
Arts/humanities	97,000	30,000	38,000	49,000	17,000	27,000
Business/industry	50,000	18,000	2,000	30,000	12,000	18,000
4-year college/university	10,000	4,000	6,000	3,000	1,000	4,000
Other educational institution	29,000	5,000	28,000	10,000	3,000	4,000
Government	7,000	2,000	S	5,000	S	2,000
Education, except science/mathematics teacher education	606,000	99,000	388,000	299,000	50,000	147,000
Business/industry	110,000	19,000	12,000	74,000	13,000	50,000
4-year college/university	30,000	8,000	16,000	14,000	3,000	8,000
Other educational institution	438,000	66,000	356,000	191,000	30,000	77,000
Government	29,000	6,000	4,000	19,000	4,000	12,000
Management/administration	882,000	233,000	50,000	712,000	160,000	190,000
Business/industry	749,000	202,000	18,000	618,000	135,000	161,000
4-year college/university	29,000	7,000	6,000	21,000	6,000	8,000
Other educational institution	25,000	2,000	18,000	10,000	4,000	4,000
Government	79,000	20,000	7,000	63,000	15,000	18,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Sales/marketing	90,000	17,000	5,000	81,000	10,000	18,000
Business/industry	82,000	15,000	S	76,000	9,000	15,000
4-year college/university	3,000	S	S	2,000	S	S
Other educational institution	2,000	S	2,000	S	S	S
Government	2,000	S	S	2,000	S	S
Social services/related	248,000	29,000	61,000	128,000	10,000	175,000
Business/industry	163,000	19,000	36,000	91,000	5,000	115,000
4-year college/university	11,000	2,000	4,000	6,000	S	7,000
Other educational institution	31,000	3,000	16,000	10,000	2,000	20,000
Government	44,000	5,000	5,000	21,000	3,000	34,000
Other non-S&E fields	222,000	52,000	36,000	150,000	33,000	75,000
Business/industry	102,000	23,000	6,000	71,000	16,000	39,000
4-year college/university	23,000	6,000	9,000	15,000	4,000	5,000
Other educational institution	19,000	3,000	17,000	4,000	4,000	7,000
Government	79,000	21,000	4,000	60,000	10,000	25,000
Doctorate degrees, all fields	885,000	537,000	286,000	363,000	78,000	192,000
Business/industry	366,000	210,000	19,000	184,000	48,000	110,000
4-year college/university	385,000	266,000	230,000	115,000	16,000	47,000
Other educational institution	59,000	14,000	36,000	26,000	4,000	14,000
Government	75,000	47,000	3,000	38,000	10,000	21,000
S&E fields	690,000	453,000	201,000	269,000	67,000	137,000
Business/industry	303,000	183,000	11,000	148,000	44,000	83,000
4-year college/university	300,000	223,000	171,000	84,000	14,000	33,000
Other educational institution	24,000	4,000	17,000	8,000	1,000	6,000
Government	63,000	42,000	2,000	30,000	7,000	16,000
Sciences	568,000	362,000	178,000	223,000	46,000	124,000
Business/industry	225,000	125,000	10,000	116,000	28,000	73,000
4-year college/university	267,000	197,000	151,000	75,000	11,000	31,000
Other educational institution	22,000	4,000	16,000	7,000	1,000	6,000
Government	53,000	35,000	2,000	25,000	6,000	14,000
Biological/agricultural/environmental life sciences	191,000	137,000	47,000	79,000	8,000	34,000
Business/industry	65,000	40,000	3,000	36,000	4,000	17,000
4-year college/university	100,000	80,000	39,000	32,000	3,000	13,000
Other educational institution	6,000	1,000	5,000	2,000	*	1,000
Government	20,000	16,000	*	9,000	1,000	4,000
Agricultural/food sciences	19,000	13,000	4,000	9,000	1,000	3,000
Business/industry	8,000	4,000	*	5,000	*	2,000
4-year college/university	9,000	7,000	4,000	3,000	*	1,000
Other educational institution	*	S	*	*	S	S
Government	2,000	2,000	S	1,000	*	*
Biological sciences	165,000	120,000	42,000	68,000	7,000	30,000
Business/industry	55,000	35,000	3,000	30,000	4,000	15,000
4-year college/university	89,000	72,000	34,000	29,000	2,000	11,000
Other educational institution	5,000	1,000	4,000	1,000	*	*
Government	16,000	13,000	*	7,000	1,000	3,000
Environmental life sciences	6,000	4,000	1,000	3,000	*	1,000
Business/industry	2,000	1,000	S	1,000	S	*
4-year college/university	2,000	2,000	1,000	1,000	S	*
Other educational institution	*	S	S	S	S	S
Government	2,000	1,000	S	1,000	S	*

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Computer/mathematical sciences	51,000	36,000	23,000	12,000	13,000	4,000
Business/industry	19,000	13,000	*	7,000	9,000	2,000
4-year college/university	28,000	21,000	22,000	5,000	2,000	1,000
Other educational institution	1,000	*	1,000	*	*	*
Government	3,000	2,000	S	1,000	1,000	*
Computer/information sciences	17,000	13,000	5,000	5,000	6,000	1,000
Business/industry	9,000	7,000	S	3,000	4,000	1,000
4-year college/university	7,000	6,000	5,000	1,000	1,000	*
Other educational institution	*	S	*	*	*	S
Government	1,000	*	S	*	*	S
Mathematical sciences	34,000	24,000	18,000	7,000	7,000	3,000
Business/industry	10,000	7,000	*	3,000	5,000	1,000
4-year college/university	21,000	15,000	17,000	4,000	1,000	1,000
Other educational institution	1,000	*	1,000	*	*	*
Government	2,000	2,000	S	1,000	1,000	*
Physical/related sciences	141,000	99,000	34,000	54,000	18,000	18,000
Business/industry	72,000	50,000	2,000	35,000	11,000	12,000
4-year college/university	50,000	39,000	27,000	12,000	5,000	3,000
Other educational institution	5,000	1,000	4,000	1,000	*	1,000
Government	13,000	10,000	*	6,000	2,000	3,000
Chemistry, except biochemistry	71,000	49,000	15,000	32,000	5,000	11,000
Business/industry	43,000	30,000	1,000	23,000	3,000	8,000
4-year college/university	21,000	15,000	11,000	6,000	1,000	2,000
Other educational institution	3,000	*	2,000	1,000	*	*
Government	5,000	3,000	S	2,000	*	1,000
Earth/atmospheric/ocean sciences	18,000	13,000	6,000	6,000	2,000	2,000
Business/industry	5,000	4,000	*	2,000	1,000	1,000
4-year college/university	9,000	7,000	6,000	2,000	1,000	1,000
Other educational institution	1,000	*	*	*	S	S
Government	3,000	2,000	S	2,000	1,000	1,000
Physics/astronomy	48,000	34,000	12,000	15,000	11,000	5,000
Business/industry	22,000	15,000	*	9,000	7,000	3,000
4-year college/university	19,000	15,000	10,000	4,000	3,000	1,000
Other educational institution	1,000	*	1,000	*	S	*
Government	5,000	4,000	S	2,000	1,000	1,000
Other physical sciences	4,000	2,000	1,000	2,000	*	*
Business/industry	2,000	1,000	S	1,000	*	*
4-year college/university	1,000	1,000	*	*	S	S
Other educational institution	S	S	S	S	S	S
Government	*	*	S	*	S	S
Social/related sciences	185,000	90,000	74,000	77,000	7,000	69,000
Business/industry	69,000	22,000	5,000	38,000	4,000	43,000
4-year college/university	88,000	58,000	62,000	25,000	2,000	13,000
Other educational institution	11,000	2,000	6,000	4,000	*	5,000
Government	17,000	8,000	1,000	10,000	1,000	8,000
Economics	24,000	16,000	10,000	9,000	1,000	4,000
Business/industry	7,000	4,000	*	5,000	1,000	3,000
4-year college/university	13,000	9,000	10,000	3,000	*	1,000
Other educational institution	*	S	*	S	S	S
Government	3,000	3,000	S	1,000	*	1,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Political/related sciences	21,000	11,000	12,000	9,000	1,000	3,000
Business/industry	5,000	2,000	*	3,000	*	1,000
4-year college/university	13,000	8,000	10,000	4,000	*	1,000
Other educational institution	1,000	*	1,000	1,000	S	*
Government	2,000	1,000	S	1,000	S	1,000
Psychology	96,000	35,000	28,000	42,000	3,000	54,000
Business/industry	47,000	10,000	4,000	24,000	2,000	35,000
4-year college/university	34,000	21,000	21,000	11,000	1,000	8,000
Other educational institution	7,000	1,000	3,000	3,000	*	4,000
Government	9,000	2,000	1,000	5,000	*	6,000
Sociology/anthropology	27,000	17,000	15,000	10,000	1,000	4,000
Business/industry	6,000	3,000	*	3,000	*	2,000
4-year college/university	18,000	12,000	13,000	5,000	*	2,000
Other educational institution	1,000	*	1,000	1,000	S	*
Government	2,000	1,000	S	1,000	*	*
Other social sciences	18,000	11,000	10,000	7,000	1,000	3,000
Business/industry	4,000	2,000	*	3,000	1,000	1,000
4-year college/university	11,000	7,000	8,000	3,000	*	1,000
Other educational institution	1,000	*	1,000	1,000	S	*
Government	1,000	1,000	S	1,000	S	*
Engineering	122,000	91,000	22,000	46,000	21,000	13,000
Business/industry	78,000	58,000	1,000	32,000	16,000	10,000
4-year college/university	33,000	25,000	20,000	9,000	3,000	2,000
Other educational institution	1,000	*	1,000	*	*	S
Government	10,000	7,000	*	5,000	2,000	1,000
Aerospace/related engineering	6,000	5,000	1,000	2,000	1,000	*
Business/industry	4,000	3,000	S	1,000	*	*
4-year college/university	2,000	1,000	1,000	*	*	S
Other educational institution	S	S	S	S	S	S
Government	1,000	1,000	S	*	*	S
Chemical engineering	16,000	12,000	2,000	7,000	2,000	2,000
Business/industry	12,000	9,000	*	5,000	2,000	2,000
4-year college/university	3,000	2,000	2,000	1,000	*	*
Other educational institution	*	S	*	S	S	S
Government	1,000	1,000	S	1,000	S	1,000
Civil/architectural engineering	11,000	7,000	3,000	5,000	2,000	2,000
Business/industry	6,000	3,000	S	3,000	1,000	1,000
4-year college/university	4,000	3,000	3,000	1,000	*	*
Other educational institution	S	S	S	S	S	S
Government	1,000	1,000	S	1,000	*	*
Electrical/computer engineering	36,000	28,000	6,000	12,000	8,000	3,000
Business/industry	24,000	19,000	*	9,000	6,000	2,000
4-year college/university	10,000	7,000	6,000	2,000	1,000	*
Other educational institution	*	S	*	S	S	S
Government	2,000	2,000	S	1,000	1,000	*
Industrial engineering	4,000	2,000	1,000	1,000	1,000	*
Business/industry	2,000	1,000	S	1,000	1,000	*
4-year college/university	2,000	1,000	1,000	*	S	*
Other educational institution	S	S	S	S	S	S
Government	*	*	S	*	S	S

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Mechanical engineering	15,000	11,000	3,000	6,000	3,000	1,000
Business/industry	10,000	8,000	*	4,000	3,000	1,000
4-year college/university	4,000	3,000	3,000	1,000	*	*
Other educational institution	*	S	S	S	S	S
Government	1,000	1,000	S	*	*	S
Other engineering	34,000	25,000	6,000	14,000	5,000	4,000
Business/industry	20,000	15,000	*	9,000	4,000	3,000
4-year college/university	9,000	7,000	5,000	3,000	1,000	1,000
Other educational institution	1,000	S	*	*	S	S
Government	4,000	3,000	S	2,000	1,000	*
S&E-related fields	59,000	34,000	21,000	26,000	3,000	17,000
Business/industry	24,000	14,000	1,000	13,000	1,000	10,000
4-year college/university	27,000	17,000	18,000	8,000	1,000	4,000
Other educational institution	4,000	1,000	2,000	3,000	S	1,000
Government	5,000	2,000	*	3,000	*	3,000
Health	41,000	20,000	13,000	17,000	1,000	16,000
Business/industry	17,000	7,000	1,000	8,000	1,000	9,000
4-year college/university	19,000	12,000	11,000	6,000	1,000	4,000
Other educational institution	1,000	*	*	*	S	*
Government	4,000	2,000	*	3,000	*	3,000
Science/mathematics teacher education	9,000	6,000	6,000	3,000	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	5,000	4,000	5,000	1,000	S	S
Other educational institution	3,000	S	1,000	2,000	S	S
Government	S	S	S	S	S	S
Technology/technical fields	3,000	2,000	S	1,000	1,000	S
Business/industry	2,000	2,000	S	S	1,000	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Other S&E-related fields	7,000	6,000	1,000	5,000	S	S
Business/industry	5,000	5,000	S	S	S	S
4-year college/university	2,000	1,000	1,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Non-S&E fields	136,000	50,000	65,000	68,000	9,000	38,000
Business/industry	40,000	13,000	7,000	23,000	3,000	18,000
4-year college/university	59,000	26,000	41,000	24,000	2,000	10,000
Other educational institution	31,000	8,000	17,000	16,000	3,000	8,000
Government	7,000	3,000	S	5,000	2,000	2,000
Arts/humanities	17,000	6,000	10,000	7,000	2,000	3,000
Business/industry	3,000	1,000	S	2,000	1,000	S
4-year college/university	10,000	4,000	8,000	3,000	S	2,000
Other educational institution	2,000	S	1,000	S	S	S
Government	S	S	S	S	S	S
Education, except science/mathematics teacher education	64,000	19,000	30,000	34,000	5,000	17,000
Business/industry	11,000	4,000	2,000	5,000	S	5,000
4-year college/university	26,000	10,000	15,000	14,000	1,000	5,000
Other educational institution	25,000	6,000	12,000	14,000	S	6,000
Government	2,000	S	S	2,000	S	S

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Management/administration	14,000	7,000	7,000	7,000	S	3,000
Business/industry	7,000	3,000	S	5,000	S	3,000
4-year college/university	7,000	4,000	7,000	3,000	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Sales/marketing	2,000	1,000	1,000	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	1,000	1,000	1,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social services/related	19,000	6,000	12,000	8,000	S	8,000
Business/industry	8,000	S	4,000	4,000	S	5,000
4-year college/university	7,000	3,000	6,000	3,000	S	2,000
Other educational institution	2,000	S	S	S	S	S
Government	S	S	S	S	S	S
Other non-S&E fields	21,000	10,000	6,000	11,000	1,000	7,000
Business/industry	11,000	4,000	S	8,000	S	4,000
4-year college/university	7,000	4,000	5,000	1,000	S	1,000
Other educational institution	1,000	S	S	S	S	S
Government	2,000	S	S	S	S	S

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Business/industry includes self-employed individuals, nonprofit organizations, and other unspecified. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Government includes federal, military, state, and local employers. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding and multiple response to work activity.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 14. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
All degree levels and fields[b]	18,021,000	10,437,000	7,585,000	73,000	1,719,000	1,035,000	937,000	13,957,000	300,000
S&E fields	9,579,000	6,153,000	3,426,000	36,000	1,072,000	531,000	513,000	7,257,000	170,000
Sciences	7,245,000	4,090,000	3,156,000	31,000	685,000	456,000	382,000	5,561,000	130,000
Biological/agricultural/environmental life sciences	1,481,000	843,000	638,000	7,000	144,000	61,000	79,000	1,168,000	23,000
Agricultural sciences	249,000	164,000	85,000	S	15,000	6,000	10,000	213,000	5,000
Biological sciences	1,081,000	573,000	508,000	4,000	125,000	53,000	64,000	818,000	16,000
Environmental life sciences	151,000	107,000	44,000	2,000	4,000	2,000	4,000	137,000	2,000
Computer/mathematical sciences	1,437,000	967,000	470,000	7,000	248,000	94,000	63,000	1,002,000	25,000
Computer/information sciences	961,000	671,000	290,000	6,000	199,000	64,000	50,000	624,000	18,000
Mathematics/statistics	476,000	296,000	180,000	S	49,000	29,000	13,000	378,000	6,000
Physical/related sciences	694,000	513,000	181,000	2,000	97,000	21,000	32,000	535,000	7,000
Chemistry, except biochemistry	326,000	219,000	107,000	1,000	61,000	13,000	17,000	231,000	4,000
Earth/atmospheric/ocean sciences	170,000	136,000	35,000	*	7,000	1,000	5,000	154,000	2,000
Physics/astronomy	152,000	130,000	22,000	*	27,000	3,000	5,000	115,000	1,000
Other physical sciences	45,000	28,000	17,000	S	2,000	4,000	4,000	35,000	S
Social/related sciences	3,633,000	1,766,000	1,867,000	16,000	196,000	281,000	209,000	2,857,000	75,000
Economics	551,000	418,000	133,000	S	72,000	19,000	24,000	429,000	7,000
Political/related sciences	666,000	421,000	244,000	5,000	30,000	57,000	37,000	523,000	14,000
Psychology	1,335,000	445,000	891,000	4,000	52,000	103,000	83,000	1,063,000	30,000
Sociology/anthropology	684,000	278,000	406,000	3,000	22,000	67,000	35,000	541,000	16,000
Other social sciences	398,000	204,000	193,000	3,000	21,000	35,000	30,000	301,000	8,000
Engineering	2,334,000	2,064,000	270,000	5,000	387,000	75,000	131,000	1,696,000	40,000
Aerospace/aeronautical/astronautical engineering	85,000	77,000	8,000	1,000	7,000	1,000	4,000	70,000	3,000
Chemical engineering	159,000	126,000	34,000	1,000	31,000	5,000	10,000	110,000	2,000
Civil/architectural engineering	385,000	342,000	43,000	1,000	45,000	12,000	31,000	286,000	10,000
Electrical/computer engineering	748,000	668,000	81,000	S	182,000	34,000	36,000	482,000	14,000
Industrial engineering	134,000	111,000	23,000	S	17,000	5,000	12,000	98,000	1,000
Mechanical engineering	492,000	455,000	37,000	1,000	61,000	11,000	20,000	392,000	6,000
Other engineering	330,000	286,000	44,000	1,000	44,000	7,000	18,000	258,000	4,000
S&E-related fields	4,383,000	1,921,000	2,462,000	17,000	421,000	238,000	249,000	3,387,000	72,000
Health	3,373,000	1,226,000	2,148,000	14,000	343,000	182,000	192,000	2,580,000	62,000
Science/mathematics teacher education	340,000	151,000	189,000	S	11,000	19,000	16,000	291,000	2,000
Technology/technical fields	334,000	292,000	42,000	S	43,000	21,000	20,000	244,000	4,000
Other S&E-related fields	336,000	253,000	83,000	S	24,000	16,000	20,000	272,000	3,000
Non-S&E fields	4,059,000	2,362,000	1,697,000	20,000	226,000	265,000	176,000	3,313,000	59,000
Arts/humanities	366,000	196,000	169,000	S	20,000	9,000	13,000	320,000	4,000

TABLE 14. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Education, except science/mathematics teacher education	890,000	365,000	525,000	6,000	21,000	70,000	41,000	739,000	13,000
Management/administration	1,367,000	986,000	380,000	9,000	122,000	88,000	60,000	1,067,000	21,000
Sales/marketing	144,000	93,000	52,000	S	10,000	6,000	5,000	122,000	1,000
Social services/related	317,000	141,000	176,000	S	9,000	34,000	13,000	256,000	5,000
Other non-S&E fields	975,000	581,000	394,000	4,000	43,000	60,000	44,000	810,000	15,000
Bachelor's degrees	10,490,000	5,912,000	4,578,000	47,000	873,000	648,000	588,000	8,135,000	198,000
S&E fields	6,953,000	4,424,000	2,529,000	30,000	610,000	426,000	405,000	5,349,000	132,000
Sciences	5,276,000	2,936,000	2,340,000	25,000	396,000	366,000	303,000	4,083,000	101,000
Biological/agricultural/environmental life sciences	1,082,000	601,000	481,000	5,000	81,000	48,000	64,000	865,000	18,000
Agricultural sciences	199,000	130,000	69,000	S	9,000	3,000	7,000	175,000	4,000
Biological sciences	767,000	389,000	378,000	3,000	71,000	44,000	53,000	584,000	13,000
Environmental life sciences	116,000	82,000	34,000	1,000	S	1,000	4,000	107,000	2,000
Computer/mathematical sciences	1,010,000	670,000	340,000	5,000	117,000	75,000	52,000	743,000	18,000
Computer/information sciences	667,000	460,000	207,000	5,000	91,000	53,000	42,000	463,000	13,000
Mathematics/statistics	343,000	210,000	133,000	S	26,000	22,000	11,000	280,000	5,000
Physical/related sciences	423,000	299,000	125,000	2,000	46,000	16,000	25,000	331,000	4,000
Chemistry, except biochemistry	209,000	133,000	76,000	1,000	29,000	10,000	14,000	152,000	3,000
Earth/atmospheric/ocean sciences	105,000	85,000	20,000	S	2,000	1,000	4,000	98,000	1,000
Physics/astronomy	73,000	59,000	14,000	*	13,000	2,000	3,000	54,000	1,000
Other physical sciences	36,000	22,000	15,000	S	2,000	3,000	4,000	27,000	S
Social/related sciences	2,760,000	1,366,000	1,395,000	13,000	153,000	227,000	162,000	2,144,000	61,000
Economics	455,000	346,000	109,000	S	58,000	17,000	20,000	354,000	6,000
Political/related sciences	548,000	347,000	201,000	4,000	23,000	48,000	31,000	430,000	13,000
Psychology	849,000	274,000	574,000	3,000	39,000	73,000	58,000	655,000	20,000
Sociology/anthropology	605,000	243,000	362,000	3,000	18,000	62,000	30,000	478,000	15,000
Other social sciences	303,000	156,000	147,000	3,000	15,000	28,000	23,000	228,000	7,000
Engineering	1,677,000	1,488,000	189,000	4,000	214,000	60,000	102,000	1,266,000	31,000
Aerospace/aeronautical/astronautical engineering	64,000	57,000	7,000	S	3,000	1,000	2,000	54,000	2,000
Chemical engineering	116,000	90,000	26,000	1,000	16,000	4,000	7,000	86,000	2,000
Civil/architectural engineering	288,000	258,000	30,000	1,000	26,000	9,000	25,000	219,000	8,000
Electrical/computer engineering	518,000	466,000	53,000	S	102,000	29,000	29,000	347,000	12,000
Industrial engineering	101,000	83,000	17,000	S	8,000	3,000	10,000	79,000	1,000
Mechanical engineering	393,000	362,000	31,000	1,000	41,000	10,000	16,000	321,000	5,000
Other engineering	197,000	172,000	25,000	S	18,000	4,000	13,000	160,000	2,000
S&E-related fields	2,322,000	824,000	1,498,000	10,000	203,000	144,000	135,000	1,783,000	47,000

TABLE 14. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Health	1,621,000	313,000	1,308,000	8,000	150,000	108,000	89,000	1,225,000	41,000
Science/mathematics teacher education	185,000	85,000	99,000	S	7,000	7,000	11,000	158,000	S
Technology/technical fields	282,000	248,000	33,000	S	29,000	18,000	18,000	212,000	4,000
Other S&E-related fields	235,000	177,000	57,000	S	17,000	11,000	16,000	187,000	2,000
Non-S&E fields	1,215,000	664,000	551,000	7,000	60,000	78,000	49,000	1,004,000	18,000
Arts/humanities	252,000	139,000	114,000	S	10,000	6,000	9,000	224,000	3,000
Education, except science/mathematics teacher education	217,000	77,000	140,000	3,000	6,000	12,000	9,000	184,000	3,000
Management/administration	468,000	315,000	153,000	3,000	34,000	36,000	20,000	367,000	7,000
Sales/marketing	53,000	27,000	26,000	S	S	2,000	2,000	48,000	S
Social services/related	40,000	22,000	18,000	S	1,000	6,000	1,000	32,000	S
Other non-S&E fields	185,000	84,000	101,000	S	7,000	16,000	8,000	149,000	3,000
Master's degrees	4,979,000	2,756,000	2,223,000	20,000	525,000	292,000	217,000	3,856,000	70,000
S&E fields	1,919,000	1,211,000	708,000	5,000	332,000	83,000	86,000	1,383,000	29,000
Sciences	1,384,000	748,000	637,000	5,000	200,000	71,000	60,000	1,028,000	21,000
Biological/agricultural/environmental life sciences	209,000	111,000	98,000	1,000	25,000	7,000	7,000	165,000	3,000
Agricultural sciences	31,000	18,000	13,000	S	2,000	2,000	2,000	24,000	1,000
Biological sciences	148,000	72,000	75,000	1,000	20,000	5,000	6,000	115,000	1,000
Environmental life sciences	30,000	20,000	10,000	S	3,000	1,000	*	25,000	S
Computer/mathematical sciences	375,000	255,000	120,000	S	119,000	16,000	9,000	224,000	6,000
Computer/information sciences	277,000	196,000	80,000	S	102,000	11,000	8,000	150,000	5,000
Mathematics/statistics	98,000	58,000	40,000	S	17,000	5,000	2,000	74,000	1,000
Physical/related sciences	130,000	94,000	35,000	*	24,000	3,000	4,000	97,000	1,000
Chemistry, except biochemistry	46,000	28,000	18,000	S	16,000	1,000	1,000	27,000	S
Earth/atmospheric/ocean sciences	47,000	36,000	11,000	S	3,000	S	1,000	42,000	1,000
Physics/astronomy	31,000	27,000	4,000	S	5,000	1,000	2,000	24,000	S
Other physical sciences	5,000	3,000	2,000	S	S	S	S	5,000	S
Social/related sciences	670,000	288,000	383,000	2,000	31,000	45,000	39,000	542,000	11,000
Economics	72,000	53,000	19,000	S	10,000	1,000	3,000	56,000	*
Political/related sciences	97,000	59,000	38,000	S	6,000	7,000	5,000	77,000	1,000
Psychology	373,000	117,000	256,000	1,000	9,000	26,000	21,000	308,000	8,000
Sociology/anthropology	52,000	21,000	31,000	S	3,000	4,000	4,000	41,000	1,000
Other social sciences	77,000	37,000	39,000	S	3,000	6,000	6,000	60,000	1,000
Engineering	535,000	464,000	71,000	S	132,000	12,000	26,000	355,000	8,000
Aerospace/aeronautical/astronautical engineering	15,000	14,000	1,000	S	2,000	S	1,000	11,000	1,000
Chemical engineering	27,000	21,000	6,000	S	9,000	1,000	2,000	15,000	S

TABLE 14. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Civil/architectural engineering	86,000	74,000	12,000	S	16,000	2,000	6,000	60,000	2,000
Electrical/computer engineering	194,000	169,000	26,000	S	66,000	5,000	7,000	114,000	2,000
Industrial engineering	29,000	24,000	5,000	S	8,000	2,000	3,000	17,000	S
Mechanical engineering	84,000	79,000	5,000	S	15,000	1,000	3,000	63,000	1,000
Other engineering	99,000	83,000	16,000	S	16,000	2,000	4,000	75,000	1,000
S&E-related fields	915,000	301,000	613,000	3,000	58,000	52,000	36,000	756,000	10,000
Health	624,000	130,000	494,000	2,000	34,000	33,000	25,000	522,000	7,000
Science/mathematics teacher education	147,000	61,000	85,000	S	4,000	11,000	4,000	125,000	S
Technology/technical fields	49,000	40,000	9,000	S	13,000	3,000	2,000	30,000	S
Other S&E-related fields	95,000	70,000	25,000	S	7,000	4,000	4,000	78,000	1,000
Non-S&E fields	2,145,000	1,243,000	902,000	12,000	134,000	157,000	95,000	1,717,000	31,000
Arts/humanities	97,000	48,000	49,000	S	10,000	2,000	4,000	81,000	1,000
Education, except science/mathematics teacher education	606,000	251,000	355,000	3,000	13,000	53,000	28,000	500,000	9,000
Management/administration	882,000	657,000	225,000	6,000	84,000	51,000	39,000	689,000	14,000
Sales/marketing	90,000	64,000	25,000	S	8,000	4,000	3,000	73,000	S
Social services/related	248,000	97,000	151,000	S	7,000	25,000	11,000	200,000	4,000
Other non-S&E fields	222,000	125,000	97,000	S	13,000	21,000	9,000	174,000	3,000
Doctorate degrees	885,000	627,000	258,000	1,000	148,000	33,000	30,000	664,000	10,000
S&E fields	690,000	513,000	177,000	1,000	129,000	21,000	21,000	510,000	8,000
Sciences	568,000	401,000	167,000	1,000	88,000	18,000	18,000	436,000	7,000
Biological/agricultural/environmental life sciences	191,000	131,000	59,000	*	38,000	5,000	7,000	138,000	3,000
Agricultural sciences	19,000	16,000	3,000	S	4,000	1,000	1,000	14,000	*
Biological sciences	165,000	111,000	55,000	*	34,000	4,000	6,000	119,000	2,000
Environmental life sciences	6,000	5,000	1,000	S	*	*	*	5,000	S
Computer/mathematical sciences	51,000	42,000	9,000	S	12,000	3,000	1,000	34,000	*
Computer/information sciences	17,000	15,000	2,000	S	5,000	1,000	1,000	10,000	*
Mathematics/statistics	34,000	27,000	7,000	S	6,000	3,000	1,000	24,000	*
Physical/related sciences	141,000	120,000	21,000	*	27,000	2,000	3,000	107,000	1,000
Chemistry, except biochemistry	71,000	58,000	13,000	*	16,000	1,000	2,000	51,000	1,000
Earth/atmospheric/ocean sciences	18,000	15,000	3,000	S	2,000	*	*	15,000	*
Physics/astronomy	48,000	43,000	4,000	S	9,000	*	1,000	37,000	*
Other physical sciences	4,000	3,000	1,000	S	*	S	S	3,000	S
Social/related sciences	185,000	108,000	78,000	*	11,000	8,000	7,000	156,000	2,000
Economics	24,000	20,000	4,000	S	3,000	1,000	1,000	19,000	*
Political/related sciences	21,000	15,000	5,000	S	1,000	2,000	1,000	17,000	*

TABLE 14. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Psychology	96,000	48,000	49,000	*	3,000	4,000	3,000	85,000	1,000
Sociology/anthropology	27,000	14,000	13,000	*	1,000	1,000	1,000	22,000	*
Other social sciences	18,000	11,000	7,000	*	3,000	1,000	1,000	13,000	*
Engineering	122,000	112,000	10,000	S	41,000	2,000	3,000	75,000	1,000
Aerospace/aeronautical/astronautical engineering	6,000	6,000	*	S	2,000	*	*	4,000	S
Chemical engineering	16,000	15,000	2,000	S	5,000	*	1,000	10,000	*
Civil/architectural engineering	11,000	10,000	1,000	S	3,000	*	*	7,000	*
Electrical/computer engineering	36,000	33,000	3,000	S	13,000	1,000	1,000	21,000	*
Industrial engineering	4,000	3,000	1,000	S	1,000	*	*	2,000	S
Mechanical engineering	15,000	14,000	1,000	S	6,000	*	*	9,000	*
Other engineering	34,000	31,000	4,000	S	10,000	*	1,000	22,000	*
S&E-related fields	59,000	31,000	28,000	*	10,000	3,000	3,000	43,000	*
Health	41,000	18,000	23,000	*	8,000	2,000	3,000	27,000	*
Science/mathematics teacher education	9,000	4,000	4,000	S	S	S	S	8,000	S
Technology/technical fields	3,000	3,000	S	S	1,000	S	S	2,000	S
Other S&E-related fields	7,000	6,000	1,000	S	S	S	S	6,000	S
Non-S&E fields	136,000	84,000	53,000	S	9,000	9,000	6,000	111,000	1,000
Arts/humanities	17,000	10,000	7,000	S	S	S	1,000	15,000	S
Education, except science/mathematics teacher education	64,000	35,000	29,000	S	1,000	5,000	3,000	53,000	1,000
Management/administration	14,000	12,000	2,000	S	4,000	S	S	9,000	S
Sales/marketing	2,000	1,000	1,000	S	1,000	S	S	1,000	S
Social services/related	19,000	14,000	5,000	S	1,000	3,000	S	15,000	S
Other non-S&E fields	21,000	12,000	9,000	S	2,000	1,000	S	18,000	S

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] "Other" includes Native Hawaiian/Other Pacific Islander and non-Hispanic respondents reporting 2 or more races.

[b] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 15. Employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All degree levels and fields[a]	18,021,000	1,243,000	2,828,000	2,665,000	1,245,000	3,357,000	774,000	1,586,000	1,143,000	3,166,000
S&E fields	9,579,000	658,000	1,480,000	1,314,000	606,000	1,804,000	378,000	828,000	643,000	1,859,000
Sciences	7,245,000	499,000	1,172,000	947,000	485,000	1,401,000	276,000	585,000	484,000	1,388,000
Biological/agricultural/environmental life sciences	1,481,000	92,000	208,000	201,000	131,000	260,000	69,000	129,000	104,000	285,000
Agricultural sciences	249,000	9,000	26,000	39,000	38,000	33,000	17,000	32,000	20,000	36,000
Biological sciences	1,081,000	74,000	162,000	145,000	80,000	197,000	46,000	90,000	70,000	215,000
Environmental life sciences	151,000	9,000	20,000	18,000	13,000	30,000	6,000	8,000	14,000	34,000
Computer/mathematical sciences	1,437,000	104,000	231,000	199,000	103,000	285,000	45,000	134,000	81,000	254,000
Computer/information sciences	961,000	60,000	151,000	132,000	72,000	202,000	24,000	85,000	57,000	176,000
Mathematics/statistics	476,000	44,000	80,000	66,000	30,000	84,000	21,000	48,000	24,000	78,000
Physical/related sciences	694,000	54,000	116,000	84,000	36,000	116,000	26,000	65,000	62,000	136,000
Chemistry, except biochemistry	326,000	22,000	62,000	49,000	17,000	55,000	15,000	28,000	18,000	60,000
Earth/atmospheric/ocean sciences	170,000	13,000	20,000	16,000	8,000	25,000	5,000	21,000	31,000	31,000
Physics/astronomy	152,000	16,000	26,000	15,000	8,000	28,000	5,000	10,000	10,000	35,000
Other physical sciences	45,000	3,000	8,000	3,000	3,000	8,000	*	5,000	4,000	11,000
Social/related sciences	3,633,000	250,000	619,000	463,000	216,000	739,000	136,000	257,000	237,000	713,000
Economics	551,000	42,000	115,000	63,000	43,000	97,000	18,000	32,000	35,000	106,000
Political/related sciences	666,000	47,000	118,000	81,000	31,000	177,000	21,000	43,000	37,000	111,000
Psychology	1,335,000	95,000	216,000	182,000	79,000	245,000	65,000	111,000	80,000	264,000
Sociology/anthropology	684,000	40,000	116,000	86,000	37,000	133,000	22,000	39,000	66,000	144,000
Other social sciences	398,000	26,000	55,000	52,000	26,000	87,000	11,000	33,000	20,000	88,000
Engineering	2,334,000	159,000	307,000	367,000	120,000	403,000	102,000	243,000	159,000	472,000
Aerospace/aeronautical/astronautical engineering	85,000	3,000	9,000	6,000	4,000	20,000	3,000	11,000	6,000	23,000
Chemical engineering	159,000	11,000	27,000	27,000	7,000	23,000	6,000	28,000	8,000	23,000
Civil/architectural engineering	385,000	29,000	51,000	47,000	24,000	74,000	17,000	37,000	29,000	76,000
Electrical/computer engineering	748,000	53,000	97,000	97,000	37,000	121,000	29,000	72,000	54,000	189,000
Industrial engineering	134,000	7,000	15,000	26,000	7,000	29,000	12,000	13,000	6,000	18,000
Mechanical engineering	492,000	36,000	65,000	108,000	23,000	79,000	21,000	48,000	26,000	85,000
Other engineering	330,000	20,000	44,000	56,000	19,000	57,000	13,000	34,000	30,000	58,000
S&E-related fields	4,383,000	287,000	697,000	738,000	358,000	787,000	214,000	403,000	251,000	645,000
Health	3,373,000	208,000	550,000	568,000	277,000	617,000	177,000	293,000	192,000	489,000
Science/mathematics teacher education	340,000	27,000	56,000	61,000	29,000	57,000	14,000	46,000	19,000	32,000
Technology/technical fields	334,000	21,000	36,000	65,000	32,000	47,000	16,000	34,000	19,000	63,000
Other S&E-related fields	336,000	31,000	54,000	44,000	21,000	66,000	7,000	30,000	22,000	61,000
Non-S&E fields	4,059,000	298,000	651,000	614,000	281,000	765,000	182,000	355,000	249,000	662,000
Arts/humanities	366,000	30,000	57,000	49,000	20,000	65,000	10,000	32,000	20,000	82,000
Education, except science/mathematics teacher education	890,000	60,000	147,000	140,000	67,000	146,000	57,000	87,000	64,000	123,000

TABLE 15. Employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Management/administration	1,367,000	99,000	194,000	219,000	89,000	270,000	58,000	131,000	88,000	215,000
Sales/marketing	144,000	16,000	25,000	28,000	12,000	20,000	S	14,000	9,000	19,000
Social services/related	317,000	27,000	63,000	52,000	19,000	58,000	18,000	22,000	14,000	43,000
Other non-S&E fields	975,000	66,000	165,000	125,000	73,000	207,000	37,000	68,000	55,000	180,000
Bachelor's degrees	10,490,000	675,000	1,551,000	1,577,000	762,000	1,933,000	457,000	965,000	684,000	1,881,000
S&E fields	6,953,000	440,000	1,048,000	975,000	473,000	1,311,000	289,000	603,000	470,000	1,339,000
Sciences	5,276,000	331,000	833,000	708,000	378,000	1,015,000	209,000	421,000	361,000	1,018,000
Biological/agricultural/environmental life sciences	1,082,000	59,000	143,000	152,000	104,000	185,000	54,000	95,000	78,000	212,000
Agricultural sciences	199,000	8,000	21,000	31,000	32,000	26,000	13,000	26,000	13,000	30,000
Biological sciences	767,000	46,000	105,000	108,000	60,000	135,000	36,000	64,000	57,000	156,000
Environmental life sciences	116,000	4,000	17,000	13,000	12,000	24,000	5,000	6,000	9,000	26,000
Computer/mathematical sciences	1,010,000	65,000	145,000	148,000	84,000	199,000	34,000	101,000	58,000	177,000
Computer/information sciences	667,000	33,000	95,000	101,000	61,000	138,000	19,000	61,000	39,000	118,000
Mathematics/statistics	343,000	31,000	49,000	47,000	23,000	61,000	15,000	40,000	19,000	58,000
Physical/related sciences	423,000	32,000	71,000	52,000	22,000	70,000	17,000	41,000	36,000	83,000
Chemistry, except biochemistry	209,000	11,000	38,000	32,000	11,000	33,000	11,000	21,000	12,000	39,000
Earth/atmospheric/ocean sciences	105,000	9,000	14,000	11,000	4,000	17,000	2,000	11,000	17,000	19,000
Physics/astronomy	73,000	9,000	12,000	6,000	5,000	13,000	3,000	5,000	4,000	17,000
Other physical sciences	36,000	2,000	7,000	2,000	S	7,000	S	4,000	4,000	9,000
Social/related sciences	2,760,000	175,000	474,000	356,000	168,000	562,000	104,000	183,000	189,000	546,000
Economics	455,000	29,000	96,000	52,000	38,000	75,000	15,000	27,000	29,000	93,000
Political/related sciences	548,000	35,000	100,000	68,000	27,000	135,000	19,000	36,000	33,000	96,000
Psychology	849,000	58,000	134,000	127,000	49,000	166,000	46,000	66,000	51,000	153,000
Sociology/anthropology	605,000	35,000	104,000	71,000	32,000	121,000	17,000	33,000	60,000	131,000
Other social sciences	303,000	18,000	41,000	38,000	22,000	65,000	8,000	22,000	16,000	74,000
Engineering	1,677,000	109,000	215,000	267,000	95,000	296,000	80,000	183,000	110,000	320,000
Aerospace/aeronautical/astronautical engineering	64,000	2,000	7,000	4,000	3,000	15,000	2,000	8,000	4,000	19,000
Chemical engineering	116,000	6,000	20,000	21,000	5,000	17,000	5,000	19,000	6,000	16,000
Civil/architectural engineering	288,000	23,000	36,000	33,000	18,000	56,000	14,000	29,000	21,000	57,000
Electrical/computer engineering	518,000	33,000	65,000	73,000	30,000	85,000	24,000	55,000	36,000	117,000
Industrial engineering	101,000	5,000	12,000	18,000	5,000	24,000	10,000	9,000	4,000	14,000
Mechanical engineering	393,000	29,000	50,000	85,000	19,000	66,000	19,000	41,000	21,000	64,000
Other engineering	197,000	10,000	26,000	34,000	13,000	33,000	6,000	22,000	19,000	34,000
S&E-related fields	2,322,000	149,000	358,000	411,000	189,000	407,000	118,000	230,000	132,000	327,000
Health	1,621,000	105,000	266,000	286,000	133,000	287,000	90,000	148,000	89,000	218,000
Science/mathematics teacher education	185,000	8,000	29,000	36,000	16,000	32,000	8,000	33,000	8,000	15,000
Technology/technical fields	282,000	17,000	28,000	58,000	27,000	39,000	14,000	29,000	18,000	51,000

TABLE 15. Employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Other S&E-related fields	235,000	19,000	36,000	31,000	14,000	50,000	6,000	20,000	17,000	42,000
Non-S&E fields	1,215,000	86,000	145,000	191,000	100,000	214,000	50,000	131,000	82,000	216,000
Arts/humanities	252,000	22,000	34,000	35,000	16,000	46,000	8,000	18,000	14,000	59,000
Education, except science/mathematics teacher education	217,000	15,000	25,000	33,000	21,000	30,000	10,000	35,000	17,000	30,000
Management/administration	468,000	29,000	47,000	74,000	41,000	91,000	20,000	56,000	29,000	80,000
Sales/marketing	53,000	3,000	10,000	14,000	1,000	9,000	S	7,000	5,000	3,000
Social services/related	40,000	4,000	6,000	4,000	2,000	8,000	S	2,000	S	9,000
Other non-S&E fields	185,000	13,000	23,000	30,000	18,000	30,000	10,000	12,000	14,000	34,000
Master's degrees	4,979,000	392,000	850,000	738,000	317,000	927,000	205,000	417,000	314,000	812,000
S&E fields	1,919,000	158,000	314,000	248,000	94,000	362,000	65,000	171,000	129,000	376,000
Sciences	1,384,000	118,000	238,000	167,000	74,000	273,000	47,000	123,000	89,000	254,000
Biological/agricultural/environmental life sciences	209,000	14,000	35,000	28,000	13,000	36,000	8,000	19,000	16,000	39,000
Agricultural sciences	31,000	S	3,000	5,000	3,000	4,000	3,000	4,000	6,000	3,000
Biological sciences	148,000	10,000	30,000	19,000	9,000	27,000	4,000	14,000	6,000	29,000
Environmental life sciences	30,000	4,000	2,000	4,000	1,000	5,000	1,000	1,000	5,000	6,000
Computer/mathematical sciences	375,000	36,000	74,000	44,000	17,000	78,000	9,000	29,000	20,000	67,000
Computer/information sciences	277,000	26,000	52,000	29,000	10,000	62,000	4,000	23,000	16,000	53,000
Mathematics/statistics	98,000	10,000	22,000	15,000	6,000	16,000	5,000	6,000	4,000	14,000
Physical/related sciences	130,000	10,000	19,000	15,000	8,000	22,000	4,000	14,000	16,000	22,000
Chemistry, except biochemistry	46,000	4,000	10,000	6,000	3,000	11,000	1,000	3,000	2,000	7,000
Earth/atmospheric/ocean sciences	47,000	3,000	4,000	4,000	2,000	5,000	3,000	8,000	12,000	8,000
Physics/astronomy	31,000	3,000	5,000	4,000	2,000	6,000	S	2,000	2,000	7,000
Other physical sciences	5,000	S	S	S	S	1,000	S	S	S	S
Social/related sciences	670,000	58,000	110,000	80,000	36,000	137,000	26,000	61,000	37,000	126,000
Economics	72,000	11,000	15,000	8,000	3,000	15,000	2,000	3,000	4,000	10,000
Political/related sciences	97,000	10,000	14,000	10,000	3,000	37,000	2,000	6,000	3,000	12,000
Psychology	373,000	27,000	64,000	40,000	23,000	60,000	16,000	37,000	21,000	84,000
Sociology/anthropology	52,000	3,000	7,000	11,000	3,000	7,000	4,000	4,000	5,000	9,000
Other social sciences	77,000	6,000	11,000	11,000	4,000	19,000	2,000	10,000	3,000	11,000
Engineering	535,000	40,000	75,000	82,000	20,000	89,000	18,000	48,000	40,000	122,000
Aerospace/aeronautical/astronautical engineering	15,000	1,000	1,000	1,000	S	4,000	1,000	2,000	2,000	3,000
Chemical engineering	27,000	3,000	5,000	3,000	1,000	4,000	1,000	6,000	1,000	4,000
Civil/architectural engineering	86,000	5,000	14,000	13,000	5,000	16,000	2,000	7,000	7,000	16,000
Electrical/computer engineering	194,000	17,000	27,000	20,000	6,000	30,000	5,000	14,000	15,000	60,000
Industrial engineering	29,000	1,000	3,000	8,000	1,000	4,000	3,000	3,000	2,000	4,000
Mechanical engineering	84,000	6,000	13,000	20,000	3,000	12,000	2,000	6,000	4,000	18,000
Other engineering	99,000	7,000	13,000	17,000	4,000	19,000	5,000	9,000	8,000	17,000

TABLE 15. Employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
S&E-related fields	915,000	69,000	165,000	150,000	84,000	160,000	38,000	73,000	53,000	124,000
Health	624,000	36,000	112,000	107,000	60,000	112,000	29,000	49,000	37,000	80,000
Science/mathematics teacher education	147,000	19,000	27,000	23,000	12,000	23,000	5,000	11,000	11,000	15,000
Technology/technical fields	49,000	3,000	9,000	7,000	4,000	8,000	2,000	5,000	S	10,000
Other S&E-related fields	95,000	10,000	17,000	13,000	7,000	16,000	S	7,000	4,000	18,000
Non-S&E fields	2,145,000	165,000	372,000	340,000	139,000	405,000	102,000	173,000	133,000	313,000
Arts/humanities	97,000	7,000	20,000	12,000	3,000	15,000	2,000	13,000	5,000	19,000
Education, except science/mathematics teacher education	606,000	43,000	111,000	100,000	42,000	103,000	43,000	45,000	41,000	78,000
Management/administration	882,000	68,000	143,000	143,000	47,000	177,000	38,000	75,000	59,000	132,000
Sales/marketing	90,000	13,000	15,000	14,000	11,000	10,000	S	7,000	3,000	16,000
Social services/related	248,000	21,000	53,000	41,000	16,000	43,000	14,000	18,000	9,000	31,000
Other non-S&E fields	222,000	13,000	30,000	30,000	20,000	57,000	5,000	16,000	15,000	36,000
Doctorate degrees	885,000	73,000	146,000	115,000	49,000	170,000	35,000	70,000	53,000	172,000
S&E fields	690,000	58,000	117,000	89,000	39,000	129,000	24,000	53,000	43,000	136,000
Sciences	568,000	49,000	100,000	71,000	33,000	111,000	20,000	41,000	35,000	107,000
Biological/agricultural/environmental life sciences	191,000	19,000	29,000	21,000	14,000	40,000	7,000	15,000	10,000	34,000
Agricultural sciences	19,000	*	2,000	2,000	3,000	4,000	1,000	2,000	2,000	3,000
Biological sciences	165,000	18,000	27,000	18,000	10,000	35,000	6,000	12,000	8,000	30,000
Environmental life sciences	6,000	*	*	1,000	*	1,000	*	1,000	1,000	1,000
Computer/mathematical sciences	51,000	4,000	12,000	7,000	2,000	9,000	2,000	3,000	3,000	10,000
Computer/information sciences	17,000	1,000	3,000	2,000	1,000	2,000	*	1,000	1,000	5,000
Mathematics/statistics	34,000	3,000	9,000	5,000	2,000	6,000	1,000	2,000	2,000	5,000
Physical/related sciences	141,000	12,000	25,000	18,000	6,000	24,000	5,000	10,000	11,000	30,000
Chemistry, except biochemistry	71,000	6,000	15,000	11,000	4,000	11,000	2,000	5,000	4,000	13,000
Earth/atmospheric/ocean sciences	18,000	1,000	1,000	1,000	1,000	3,000	1,000	2,000	2,000	4,000
Physics/astronomy	48,000	4,000	9,000	6,000	1,000	9,000	1,000	3,000	4,000	11,000
Other physical sciences	4,000	*	*	S	S	1,000	*	*	*	2,000
Social/related sciences	185,000	15,000	34,000	26,000	11,000	39,000	6,000	13,000	11,000	32,000
Economics	24,000	2,000	4,000	3,000	2,000	8,000	1,000	1,000	1,000	3,000
Political/related sciences	21,000	2,000	4,000	3,000	1,000	6,000	1,000	1,000	1,000	3,000
Psychology	96,000	8,000	18,000	13,000	6,000	17,000	3,000	7,000	6,000	19,000
Sociology/anthropology	27,000	2,000	5,000	4,000	2,000	6,000	1,000	2,000	2,000	4,000
Other social sciences	18,000	1,000	4,000	3,000	1,000	3,000	*	1,000	1,000	3,000
Engineering	122,000	9,000	17,000	18,000	5,000	18,000	4,000	12,000	9,000	29,000
Aerospace/aeronautical/astronautical engineering	6,000	*	*	1,000	*	1,000	*	1,000	*	1,000
Chemical engineering	16,000	1,000	2,000	3,000	1,000	2,000	1,000	3,000	1,000	3,000
Civil/architectural engineering	11,000	1,000	2,000	1,000	*	2,000	*	1,000	1,000	2,000

TABLE 15. Employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Electrical/computer engineering	36,000	3,000	5,000	4,000	1,000	5,000	1,000	3,000	2,000	12,000
Industrial engineering	4,000	S	*	1,000	*	1,000	S	1,000	*	1,000
Mechanical engineering	15,000	1,000	2,000	3,000	1,000	2,000	1,000	1,000	1,000	3,000
Other engineering	34,000	2,000	5,000	6,000	2,000	5,000	1,000	3,000	3,000	7,000
S&E-related fields	59,000	6,000	10,000	6,000	3,000	12,000	3,000	7,000	2,000	10,000
Health	41,000	3,000	9,000	5,000	2,000	9,000	2,000	3,000	1,000	7,000
Science/mathematics teacher education	9,000	S	S	S	1,000	3,000	S	S	S	1,000
Technology/technical fields	3,000	S	S	S	S	S	S	S	S	1,000
Other S&E-related fields	7,000	S	S	S	S	S	S	S	S	1,000
Non-S&E fields	136,000	9,000	18,000	20,000	6,000	30,000	8,000	10,000	8,000	26,000
Arts/humanities	17,000	1,000	3,000	2,000	1,000	3,000	S	1,000	S	4,000
Education, except science/mathematics teacher education	64,000	2,000	10,000	8,000	3,000	11,000	4,000	7,000	4,000	14,000
Management/administration	14,000	3,000	2,000	2,000	S	3,000	S	S	S	3,000
Sales/marketing	2,000	S	S	S	S	S	S	S	S	S
Social services/related	19,000	S	2,000	3,000	1,000	5,000	2,000	1,000	S	2,000
Other non-S&E fields	21,000	3,000	1,000	4,000	S	7,000	1,000	1,000	1,000	3,000

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. See http://sestat.nsf.gov/docs/location.html for details on states included in each division. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 16. Employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
All degree levels and occupations[a]	18,021,000	12,477,000	9,678,000	1,241,000	1,559,000	3,401,000	1,505,000	1,896,000	2,142,000	803,000	1,339,000
S&E occupations	4,817,000	3,454,000	3,091,000	187,000	177,000	765,000	620,000	144,000	598,000	285,000	313,000
Scientists	3,262,000	2,181,000	1,886,000	139,000	156,000	691,000	552,000	139,000	390,000	179,000	212,000
Biological/agricultural/other life scientists	444,000	154,000	123,000	8,000	23,000	200,000	189,000	11,000	90,000	48,000	42,000
Agricultural/food scientists	48,000	25,000	22,000	1,000	2,000	13,000	12,000	S	11,000	6,000	5,000
Biological/medical scientists	298,000	114,000	91,000	5,000	19,000	127,000	126,000	*	57,000	30,000	27,000
Environmental life scientists	39,000	15,000	10,000	2,000	2,000	3,000	3,000	S	22,000	12,000	9,000
Postsecondary teachers-life/related sciences	57,000	S	S	S	S	57,000	47,000	10,000	S	S	S
Computer/mathematical scientists	2,008,000	1,621,000	1,483,000	61,000	77,000	215,000	154,000	61,000	172,000	80,000	92,000
Computer/information scientists	1,849,000	1,582,000	1,449,000	59,000	74,000	116,000	88,000	28,000	152,000	67,000	85,000
Mathematical scientists	67,000	38,000	33,000	2,000	3,000	9,000	8,000	1,000	20,000	13,000	7,000
Postsecondary teachers-computer/mathematical sciences	92,000	1,000	1,000	1,000	S	91,000	59,000	32,000	S	S	S
Physical/related scientists	315,000	174,000	162,000	7,000	6,000	87,000	80,000	7,000	53,000	25,000	28,000
Chemists, except biochemists	124,000	100,000	97,000	1,000	2,000	12,000	12,000	S	13,000	6,000	7,000
Earth/atmospheric/ocean scientists	71,000	43,000	38,000	4,000	1,000	8,000	8,000	S	20,000	11,000	9,000
Physicists/astronomers	31,000	14,000	12,000	1,000	1,000	12,000	11,000	S	5,000	5,000	1,000
Postsecondary teachers-physical/related sciences	52,000	*	S	S	S	51,000	44,000	7,000	S	S	S
Other physical/related scientists	37,000	17,000	15,000	1,000	1,000	4,000	4,000	S	16,000	4,000	12,000
Social/related scientists	495,000	231,000	118,000	62,000	51,000	189,000	129,000	59,000	74,000	25,000	49,000
Economists	35,000	19,000	14,000	4,000	2,000	4,000	4,000	S	11,000	8,000	3,000
Political/related scientists	14,000	7,000	3,000	*	4,000	1,000	1,000	S	6,000	3,000	3,000
Postsecondary teachers-social/related sciences	106,000	1,000	*	S	S	104,000	85,000	19,000	*	S	*
Psychologists	181,000	98,000	33,000	45,000	20,000	63,000	23,000	40,000	20,000	6,000	14,000
Sociologists/anthropologists	22,000	11,000	5,000	3,000	3,000	6,000	6,000	S	4,000	3,000	1,000
Other social/related scientists	138,000	95,000	64,000	10,000	21,000	10,000	9,000	1,000	33,000	6,000	28,000
Engineers	1,555,000	1,273,000	1,204,000	48,000	21,000	74,000	68,000	6,000	208,000	107,000	101,000
Aerospace/aeronautical/astronautical engineers	95,000	75,000	71,000	3,000	1,000	3,000	2,000	S	18,000	18,000	*
Chemical engineers	75,000	67,000	64,000	2,000	1,000	3,000	3,000	S	5,000	5,000	S
Civil/architectural/sanitary engineers	247,000	163,000	149,000	13,000	1,000	2,000	2,000	S	82,000	16,000	66,000
Electrical/computer hardware engineers	367,000	325,000	312,000	7,000	6,000	11,000	11,000	S	31,000	25,000	6,000
Industrial engineers	86,000	80,000	75,000	3,000	2,000	1,000	1,000	S	4,000	3,000	1,000
Mechanical engineers	272,000	246,000	238,000	5,000	3,000	8,000	8,000	S	17,000	14,000	4,000
Postsecondary teachers-engineering	33,000	S	S	S	S	33,000	29,000	4,000	S	S	S
Other engineers	380,000	317,000	295,000	15,000	7,000	13,000	13,000	S	50,000	26,000	24,000
S&E-related occupations	5,331,000	3,473,000	2,339,000	377,000	757,000	1,393,000	539,000	854,000	465,000	157,000	308,000
Health-related occupations	3,515,000	2,573,000	1,580,000	306,000	687,000	613,000	478,000	135,000	329,000	112,000	218,000

TABLE 16. Employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
S&E managers	386,000	303,000	250,000	5,000	48,000	25,000	22,000	3,000	58,000	22,000	36,000
S&E precollege teachers	716,000	4,000	1,000	S	S	710,000	S	709,000	2,000	S	2,000
S&E technicians/technologists	500,000	395,000	358,000	19,000	17,000	41,000	36,000	6,000	64,000	20,000	44,000
Other S&E-related occupations	214,000	197,000	149,000	44,000	5,000	5,000	3,000	1,000	12,000	4,000	9,000
Non-S&E occupations	7,873,000	5,551,000	4,249,000	678,000	625,000	1,243,000	346,000	898,000	1,079,000	361,000	718,000
Art/humanities/related occupations	248,000	221,000	143,000	60,000	17,000	13,000	11,000	2,000	14,000	7,000	7,000
Management-related occupations	1,310,000	1,058,000	885,000	85,000	88,000	72,000	49,000	23,000	181,000	81,000	99,000
Non-S&E managers	922,000	680,000	603,000	9,000	67,000	139,000	47,000	91,000	103,000	41,000	62,000
Non-S&E postsecondary teachers	140,000	3,000	2,000	S	*	130,000	102,000	29,000	6,000	3,000	3,000
Non-S&E precollege/other teachers	600,000	26,000	8,000	6,000	12,000	568,000	3,000	566,000	5,000	S	5,000
Sales/marketing occupations	1,322,000	1,304,000	1,098,000	167,000	38,000	7,000	6,000	S	11,000	6,000	6,000
Social services/related occupations	621,000	313,000	67,000	24,000	222,000	133,000	33,000	100,000	175,000	9,000	166,000
Other non-S&E occupations	2,711,000	1,946,000	1,442,000	325,000	179,000	181,000	95,000	86,000	584,000	213,000	371,000
Bachelor's degrees, all occupations	10,490,000	7,801,000	6,256,000	603,000	942,000	1,408,000	566,000	841,000	1,281,000	449,000	831,000
S&E occupations	2,786,000	2,204,000	2,025,000	84,000	95,000	225,000	184,000	41,000	358,000	150,000	208,000
Scientists	1,777,000	1,358,000	1,220,000	56,000	83,000	202,000	165,000	38,000	216,000	84,000	132,000
Biological/agricultural/other life scientists	182,000	77,000	66,000	4,000	7,000	59,000	58,000	1,000	46,000	20,000	26,000
Agricultural/food scientists	26,000	15,000	14,000	S	S	4,000	3,000	S	8,000	2,000	5,000
Biological/medical scientists	118,000	50,000	42,000	2,000	6,000	45,000	45,000	S	23,000	8,000	15,000
Environmental life scientists	29,000	12,000	10,000	S	1,000	S	S	S	15,000	9,000	6,000
Postsecondary teachers-life/related sciences	9,000	S	S	S	S	9,000	8,000	S	S	S	S
Computer/mathematical scientists	1,332,000	1,119,000	1,022,000	40,000	56,000	98,000	66,000	32,000	116,000	49,000	67,000
Computer/information scientists	1,282,000	1,102,000	1,007,000	39,000	55,000	75,000	55,000	20,000	105,000	42,000	63,000
Mathematical scientists	29,000	16,000	14,000	S	S	2,000	2,000	S	10,000	7,000	4,000
Postsecondary teachers-computer/mathematical sciences	21,000	S	S	S	S	20,000	9,000	11,000	S	S	S
Physical/related scientists	139,000	89,000	85,000	3,000	1,000	24,000	23,000	S	27,000	8,000	19,000
Chemists, except biochemists	69,000	57,000	56,000	*	*	5,000	5,000	S	6,000	2,000	4,000
Earth/atmospheric/ocean scientists	33,000	20,000	18,000	2,000	S	3,000	3,000	S	11,000	5,000	6,000
Physicists/astronomers	5,000	2,000	2,000	S	S	3,000	3,000	S	*	*	S
Postsecondary teachers-physical/related sciences	10,000	S	S	S	S	10,000	9,000	S	S	S	S
Other physical/related scientists	22,000	10,000	9,000	S	S	3,000	3,000	S	10,000	1,000	9,000
Social/related scientists	123,000	74,000	48,000	8,000	18,000	22,000	18,000	4,000	27,000	6,000	21,000
Economists	9,000	6,000	3,000	S	S	1,000	1,000	S	2,000	2,000	1,000
Political/related scientists	9,000	5,000	2,000	S	3,000	S	S	S	3,000	1,000	2,000
Postsecondary teachers-social/related sciences	9,000	S	S	S	S	8,000	5,000	3,000	S	S	S
Psychologists	14,000	6,000	5,000	S	S	6,000	5,000	1,000	2,000	S	S

TABLE 16. Employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Sociologists/anthropologists	9,000	5,000	3,000	S	S	1,000	1,000	S	2,000	S	S
Other social/related scientists	74,000	52,000	34,000	4,000	14,000	5,000	5,000	S	18,000	2,000	16,000
Engineers	1,010,000	846,000	805,000	28,000	12,000	22,000	19,000	3,000	142,000	66,000	76,000
Aerospace/aeronautical/astronautical engineers	53,000	43,000	43,000	S	*	1,000	*	S	9,000	8,000	S
Chemical engineers	45,000	39,000	39,000	1,000	S	1,000	1,000	S	4,000	4,000	S
Civil/architectural/sanitary engineers	174,000	112,000	102,000	9,000	S	1,000	1,000	S	61,000	11,000	50,000
Electrical/computer hardware engineers	229,000	205,000	198,000	4,000	4,000	3,000	3,000	S	20,000	16,000	4,000
Industrial engineers	60,000	58,000	55,000	2,000	1,000	1,000	1,000	S	2,000	2,000	1,000
Mechanical engineers	188,000	173,000	167,000	4,000	2,000	4,000	4,000	S	11,000	8,000	3,000
Postsecondary teachers-engineering	5,000	S	S	S	S	5,000	4,000	2,000	S	S	S
Other engineers	255,000	216,000	202,000	9,000	4,000	5,000	5,000	S	33,000	17,000	17,000
S&E-related occupations	2,956,000	1,990,000	1,357,000	124,000	509,000	674,000	258,000	417,000	291,000	79,000	213,000
Health-related occupations	1,829,000	1,350,000	806,000	76,000	468,000	277,000	221,000	56,000	203,000	52,000	150,000
S&E managers	219,000	184,000	154,000	4,000	26,000	9,000	8,000	S	26,000	6,000	20,000
S&E precollege teachers	357,000	S	S	S	S	355,000	S	355,000	S	S	S
S&E technicians/technologists	401,000	318,000	289,000	15,000	14,000	29,000	26,000	3,000	54,000	18,000	36,000
Other S&E-related occupations	149,000	137,000	107,000	29,000	1,000	4,000	3,000	S	8,000	2,000	6,000
Non-S&E occupations	4,747,000	3,607,000	2,874,000	395,000	338,000	509,000	125,000	384,000	631,000	221,000	410,000
Art/humanities/related occupations	160,000	145,000	104,000	32,000	10,000	6,000	5,000	1,000	8,000	3,000	5,000
Management-related occupations	793,000	663,000	563,000	49,000	51,000	36,000	25,000	11,000	95,000	45,000	50,000
Non-S&E managers	456,000	392,000	364,000	8,000	20,000	17,000	4,000	13,000	47,000	21,000	26,000
Non-S&E postsecondary teachers	26,000	2,000	2,000	S	S	22,000	16,000	5,000	2,000	S	S
Non-S&E precollege/other teachers	304,000	15,000	5,000	3,000	7,000	286,000	1,000	285,000	3,000	S	3,000
Sales/marketing occupations	980,000	965,000	814,000	121,000	29,000	7,000	6,000	S	9,000	3,000	5,000
Social services/related occupations	240,000	117,000	22,000	2,000	92,000	28,000	12,000	16,000	95,000	S	94,000
Other non-S&E occupations	1,789,000	1,309,000	1,000,000	180,000	130,000	107,000	55,000	51,000	372,000	145,000	227,000
Master's degrees, all occupations	4,979,000	3,026,000	2,293,000	293,000	440,000	1,346,000	370,000	976,000	607,000	239,000	368,000
S&E occupations	1,424,000	1,009,000	889,000	66,000	54,000	235,000	151,000	84,000	180,000	93,000	87,000
Scientists	974,000	640,000	543,000	50,000	47,000	212,000	130,000	82,000	123,000	59,000	64,000
Biological/agricultural/other life scientists	98,000	33,000	24,000	2,000	7,000	39,000	33,000	6,000	25,000	13,000	13,000
Agricultural/food scientists	13,000	5,000	4,000	S	S	5,000	5,000	S	2,000	2,000	S
Biological/medical scientists	63,000	25,000	20,000	S	5,000	20,000	19,000	S	18,000	9,000	9,000
Environmental life scientists	9,000	3,000	S	S	1,000	S	S	S	6,000	2,000	3,000
Postsecondary teachers-life/related sciences	13,000	S	S	S	S	13,000	7,000	6,000	S	S	S
Computer/mathematical scientists	578,000	455,000	420,000	17,000	17,000	74,000	48,000	27,000	49,000	27,000	23,000
Computer/information scientists	515,000	439,000	406,000	16,000	17,000	33,000	26,000	7,000	42,000	23,000	20,000
Mathematical scientists	25,000	15,000	14,000	S	1,000	4,000	3,000	S	7,000	4,000	3,000

TABLE 16. Employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Postsecondary teachers-computer/mathematical sciences	38,000	S	S	S	S	37,000	19,000	19,000	S	S	S
Physical/related scientists	83,000	49,000	45,000	2,000	2,000	19,000	15,000	4,000	15,000	8,000	7,000
Chemists, except biochemists	25,000	20,000	20,000	S	S	2,000	2,000	S	3,000	2,000	1,000
Earth/atmospheric/ocean scientists	27,000	19,000	17,000	2,000	S	2,000	2,000	S	6,000	3,000	2,000
Physicists/astronomers	8,000	5,000	5,000	S	S	2,000	2,000	S	1,000	1,000	S
Postsecondary teachers-physical/related sciences	12,000	S	S	S	S	12,000	8,000	4,000	S	S	S
Other physical/related scientists	10,000	5,000	4,000	S	1,000	S	S	S	5,000	2,000	3,000
Social/related scientists	215,000	102,000	53,000	29,000	20,000	80,000	35,000	45,000	33,000	12,000	21,000
Economists	17,000	9,000	7,000	S	1,000	2,000	2,000	S	6,000	4,000	2,000
Political/related scientists	4,000	1,000	S	S	S	*	*	S	2,000	1,000	S
Postsecondary teachers-social/related sciences	30,000	S	S	S	S	30,000	18,000	12,000	S	S	S
Psychologists	100,000	48,000	16,000	20,000	11,000	42,000	9,000	33,000	10,000	2,000	7,000
Sociologists/anthropologists	8,000	4,000	1,000	2,000	S	3,000	3,000	S	1,000	S	1,000
Other social/related scientists	56,000	40,000	28,000	6,000	6,000	3,000	3,000	S	13,000	3,000	10,000
Engineers	450,000	369,000	346,000	16,000	7,000	23,000	21,000	2,000	57,000	34,000	23,000
Aerospace/aeronautical/astronautical engineers	37,000	27,000	25,000	S	S	1,000	1,000	S	8,000	8,000	S
Chemical engineers	21,000	20,000	18,000	S	S	1,000	1,000	S	S	S	S
Civil/architectural/sanitary engineers	68,000	48,000	44,000	3,000	S	1,000	1,000	S	19,000	5,000	14,000
Electrical/computer hardware engineers	118,000	103,000	99,000	3,000	2,000	5,000	5,000	S	9,000	8,000	2,000
Industrial engineers	23,000	20,000	18,000	S	S	*	*	S	2,000	2,000	S
Mechanical engineers	74,000	65,000	64,000	1,000	1,000	3,000	3,000	S	5,000	5,000	*
Postsecondary teachers-engineering	8,000	S	S	S	S	7,000	6,000	2,000	S	S	S
Other engineers	102,000	85,000	78,000	5,000	2,000	4,000	4,000	S	13,000	7,000	6,000
S&E-related occupations	1,228,000	611,000	394,000	65,000	152,000	503,000	86,000	417,000	113,000	46,000	67,000
Health-related occupations	599,000	382,000	211,000	45,000	127,000	146,000	70,000	76,000	72,000	30,000	42,000
S&E managers	135,000	99,000	80,000	S	18,000	10,000	9,000	S	27,000	13,000	14,000
S&E precollege teachers	341,000	3,000	S	S	S	338,000	S	337,000	1,000	S	S
S&E technicians/technologists	89,000	70,000	64,000	4,000	3,000	9,000	7,000	S	10,000	2,000	8,000
Other S&E-related occupations	62,000	58,000	39,000	15,000	S	S	S	S	4,000	S	3,000
Non-S&E occupations	2,328,000	1,406,000	1,009,000	162,000	235,000	608,000	133,000	475,000	314,000	100,000	214,000
Art/humanities/related occupations	74,000	63,000	36,000	21,000	6,000	6,000	5,000	S	5,000	3,000	1,000
Management-related occupations	457,000	353,000	291,000	31,000	31,000	28,000	17,000	11,000	77,000	32,000	44,000
Non-S&E managers	362,000	235,000	198,000	S	37,000	81,000	18,000	63,000	46,000	15,000	31,000
Non-S&E postsecondary teachers	63,000	S	S	S	S	59,000	39,000	20,000	3,000	S	1,000
Non-S&E precollege/other teachers	283,000	10,000	3,000	3,000	5,000	270,000	1,000	268,000	3,000	S	3,000
Sales/marketing occupations	304,000	302,000	253,000	40,000	8,000	S	S	S	2,000	S	S
Social services/related occupations	353,000	175,000	41,000	21,000	113,000	100,000	18,000	82,000	78,000	7,000	71,000

TABLE 16. Employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Other non-S&E occupations	432,000	267,000	187,000	45,000	35,000	63,000	34,000	29,000	102,000	39,000	63,000
Doctorate degrees, all occupations	885,000	366,000	267,000	48,000	52,000	444,000	385,000	59,000	75,000	50,000	25,000
S&E occupations	558,000	216,000	163,000	30,000	24,000	289,000	272,000	18,000	52,000	39,000	13,000
Scientists	465,000	159,000	111,000	26,000	22,000	261,000	244,000	17,000	45,000	33,000	12,000
Biological/agricultural/other life scientists	148,000	38,000	29,000	2,000	7,000	93,000	90,000	3,000	17,000	14,000	3,000
Agricultural/food scientists	9,000	4,000	3,000	*	*	4,000	4,000	S	2,000	2,000	*
Biological/medical scientists	103,000	34,000	26,000	2,000	6,000	54,000	54,000	*	15,000	12,000	3,000
Environmental life scientists	2,000	*	S	S	*	1,000	1,000	S	1,000	1,000	S
Postsecondary teachers-life/related sciences	34,000	S	S	S	S	34,000	31,000	3,000	S	S	S
Computer/mathematical scientists	86,000	40,000	36,000	3,000	2,000	41,000	38,000	3,000	5,000	3,000	2,000
Computer/information scientists	43,000	35,000	31,000	2,000	1,000	5,000	5,000	*	3,000	1,000	1,000
Mathematical scientists	11,000	6,000	4,000	*	1,000	3,000	3,000	S	2,000	2,000	*
Postsecondary teachers-computer/mathematical sciences	33,000	S	S	S	S	33,000	31,000	2,000	S	S	S
Physical/related scientists	91,000	35,000	30,000	2,000	3,000	45,000	42,000	3,000	11,000	9,000	2,000
Chemists, except biochemists	30,000	22,000	21,000	1,000	1,000	4,000	4,000	S	3,000	2,000	1,000
Earth/atmospheric/ocean scientists	10,000	3,000	3,000	*	*	3,000	3,000	S	3,000	3,000	1,000
Physicists/astronomers	17,000	7,000	5,000	*	1,000	6,000	6,000	S	4,000	3,000	*
Postsecondary teachers-physical/related sciences	30,000	S	S	S	S	30,000	27,000	3,000	S	S	S
Other physical/related scientists	4,000	2,000	1,000	*	1,000	1,000	1,000	S	1,000	*	*
Social/related scientists	140,000	46,000	16,000	20,000	10,000	83,000	74,000	9,000	11,000	6,000	5,000
Economists	9,000	4,000	3,000	1,000	1,000	2,000	2,000	S	3,000	2,000	*
Political/related scientists	2,000	*	*	S	*	1,000	1,000	S	*	*	S
Postsecondary teachers-social/related sciences	64,000	*	S	S	S	64,000	59,000	4,000	S	S	S
Psychologists	55,000	36,000	11,000	19,000	6,000	13,000	8,000	4,000	6,000	2,000	4,000
Sociologists/anthropologists	5,000	2,000	1,000	*	1,000	2,000	2,000	S	1,000	1,000	*
Other social/related scientists	6,000	3,000	2,000	*	2,000	2,000	1,000	S	1,000	1,000	*
Engineers	93,000	58,000	52,000	3,000	2,000	28,000	28,000	*	8,000	6,000	2,000
Aerospace/aeronautical/astronautical engineers	5,000	4,000	3,000	S	*	*	*	S	1,000	1,000	S
Chemical engineers	9,000	8,000	7,000	*	*	1,000	1,000	S	*	*	S
Civil/architectural/sanitary engineers	5,000	3,000	3,000	*	*	1,000	1,000	S	1,000	*	1,000
Electrical/computer hardware engineers	21,000	17,000	15,000	1,000	1,000	2,000	2,000	S	1,000	1,000	*
Industrial engineers	2,000	2,000	2,000	S	S	*	*	S	S	S	S
Mechanical engineers	10,000	8,000	7,000	*	*	1,000	1,000	S	1,000	1,000	*
Postsecondary teachers-engineering	20,000	S	S	S	S	20,000	19,000	*	S	S	S
Other engineers	22,000	16,000	14,000	1,000	1,000	3,000	3,000	S	3,000	2,000	1,000

TABLE 16. Employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
S&E-related occupations	105,000	46,000	34,000	4,000	8,000	50,000	38,000	13,000	9,000	4,000	4,000
Health-related occupations	57,000	21,000	12,000	3,000	5,000	32,000	32,000	1,000	4,000	1,000	2,000
S&E managers	26,000	18,000	15,000	*	2,000	4,000	4,000	*	4,000	3,000	1,000
S&E precollege teachers	12,000	S	S	S	S	12,000	S	12,000	S	S	S
S&E technicians/technologists	8,000	5,000	5,000	*	*	2,000	2,000	S	*	*	*
Other S&E-related occupations	3,000	2,000	2,000	S	S	S	S	S	*	S	S
Non-S&E occupations	222,000	104,000	70,000	14,000	20,000	104,000	76,000	28,000	14,000	7,000	7,000
Art/humanities/related occupations	10,000	8,000	3,000	4,000	1,000	1,000	1,000	S	1,000	*	*
Management-related occupations	31,000	20,000	15,000	2,000	3,000	7,000	6,000	1,000	4,000	2,000	2,000
Non-S&E managers	74,000	33,000	26,000	1,000	6,000	36,000	22,000	14,000	5,000	3,000	2,000
Non-S&E postsecondary teachers	46,000	*	S	S	S	45,000	42,000	3,000	S	S	S
Non-S&E precollege/other teachers	8,000	1,000	*	S	S	7,000	S	7,000	S	S	S
Sales/marketing occupations	18,000	17,000	14,000	2,000	1,000	*	*	S	S	S	S
Social services/related occupations	12,000	9,000	1,000	1,000	7,000	3,000	1,000	1,000	1,000	*	1,000
Other non-S&E occupations	23,000	15,000	10,000	4,000	2,000	5,000	4,000	1,000	3,000	1,000	2,000

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
All degree levels and occupations[a]	18,021,000	12,477,000	1,505,000	1,896,000	2,142,000
U.S. citizen	16,980,000	11,671,000	1,346,000	1,864,000	2,099,000
Native-born	15,198,000	10,348,000	1,178,000	1,766,000	1,906,000
Naturalized	1,782,000	1,323,000	167,000	99,000	193,000
Non-U.S. citizen	1,041,000	806,000	160,000	32,000	43,000
Permanent resident	733,000	590,000	83,000	26,000	34,000
Temporary resident	308,000	217,000	77,000	6,000	9,000
S&E occupations	4,817,000	3,454,000	620,000	144,000	598,000
U.S. citizen	4,332,000	3,091,000	517,000	140,000	583,000
Native-born	3,794,000	2,695,000	451,000	131,000	517,000
Naturalized	537,000	396,000	66,000	9,000	66,000
Non-U.S. citizen	485,000	363,000	103,000	4,000	15,000
Permanent resident	293,000	236,000	44,000	3,000	9,000
Temporary resident	192,000	127,000	59,000	1,000	6,000
Scientists	3,262,000	2,181,000	552,000	139,000	390,000
U.S. citizen	2,893,000	1,916,000	465,000	135,000	378,000
Native-born	2,553,000	1,674,000	410,000	126,000	344,000
Naturalized	340,000	242,000	55,000	9,000	34,000
Non-U.S. citizen	369,000	265,000	87,000	4,000	12,000
Permanent resident	227,000	176,000	41,000	3,000	7,000
Temporary resident	142,000	89,000	47,000	1,000	5,000
Biological/agricultural/other life scientists	444,000	154,000	189,000	11,000	90,000
U.S. citizen	386,000	138,000	152,000	10,000	86,000
Native-born	342,000	121,000	132,000	10,000	79,000
Naturalized	45,000	17,000	21,000	1,000	6,000
Non-U.S. citizen	58,000	16,000	36,000	*	4,000
Permanent resident	33,000	12,000	18,000	S	2,000
Temporary resident	25,000	4,000	19,000	S	2,000
Agricultural/food scientists	48,000	25,000	12,000	S	11,000
U.S. citizen	43,000	23,000	9,000	S	11,000
Native-born	41,000	22,000	9,000	S	11,000
Naturalized	2,000	1,000	*	S	1,000
Non-U.S. citizen	5,000	2,000	3,000	S	S
Permanent resident	3,000	2,000	2,000	S	S
Temporary resident	2,000	*	2,000	S	S
Biological/medical scientists	298,000	114,000	126,000	*	57,000
U.S. citizen	252,000	101,000	98,000	*	53,000
Native-born	216,000	85,000	83,000	*	47,000
Naturalized	36,000	16,000	15,000	S	5,000
Non-U.S. citizen	47,000	14,000	29,000	S	4,000
Permanent resident	26,000	10,000	14,000	S	2,000
Temporary resident	20,000	3,000	14,000	S	2,000
Environmental life scientists	39,000	15,000	3,000	S	22,000
U.S. citizen	39,000	14,000	3,000	S	22,000
Native-born	37,000	14,000	2,000	S	21,000
Naturalized	2,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-life/related sciences	57,000	S	47,000	10,000	S
U.S. citizen	52,000	S	42,000	10,000	S
Native-born	48,000	S	38,000	9,000	S
Naturalized	5,000	S	4,000	1,000	S
Non-U.S. citizen	5,000	S	4,000	*	S
Permanent resident	2,000	S	2,000	S	S
Temporary resident	3,000	S	3,000	S	S

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Computer/mathematical scientists	2,008,000	1,621,000	154,000	61,000	172,000
U.S. citizen	1,755,000	1,400,000	129,000	59,000	167,000
Native-born	1,521,000	1,208,000	112,000	55,000	146,000
Naturalized	234,000	192,000	17,000	4,000	21,000
Non-U.S. citizen	253,000	221,000	25,000	2,000	5,000
Permanent resident	162,000	145,000	12,000	2,000	4,000
Temporary resident	91,000	76,000	13,000	S	2,000
Computer/information scientists	1,849,000	1,582,000	88,000	28,000	152,000
U.S. citizen	1,613,000	1,364,000	74,000	28,000	147,000
Native-born	1,396,000	1,176,000	66,000	26,000	128,000
Naturalized	217,000	189,000	8,000	2,000	19,000
Non-U.S. citizen	236,000	217,000	13,000	S	5,000
Permanent resident	152,000	143,000	5,000	S	3,000
Temporary resident	84,000	74,000	8,000	S	2,000
Mathematical scientists	67,000	38,000	8,000	1,000	20,000
U.S. citizen	62,000	34,000	6,000	1,000	20,000
Native-born	55,000	31,000	5,000	1,000	18,000
Naturalized	6,000	3,000	1,000	S	2,000
Non-U.S. citizen	6,000	3,000	2,000	S	*
Permanent resident	2,000	2,000	1,000	S	S
Temporary resident	3,000	2,000	1,000	S	S
Postsecondary teachers-computer/mathematical sciences	92,000	1,000	59,000	32,000	S
U.S. citizen	81,000	1,000	49,000	30,000	S
Native-born	70,000	1,000	40,000	28,000	S
Naturalized	11,000	S	9,000	2,000	S
Non-U.S. citizen	12,000	S	10,000	2,000	S
Permanent resident	7,000	S	6,000	1,000	S
Temporary resident	4,000	S	4,000	S	S
Physical/related scientists	315,000	174,000	80,000	7,000	53,000
U.S. citizen	285,000	161,000	65,000	7,000	52,000
Native-born	251,000	140,000	57,000	6,000	48,000
Naturalized	34,000	21,000	8,000	1,000	4,000
Non-U.S. citizen	31,000	14,000	15,000	*	1,000
Permanent resident	17,000	10,000	6,000	*	*
Temporary resident	14,000	4,000	9,000	S	1,000
Chemists, except biochemists	124,000	100,000	12,000	S	13,000
U.S. citizen	111,000	90,000	8,000	S	12,000
Native-born	92,000	74,000	7,000	S	11,000
Naturalized	19,000	16,000	1,000	S	2,000
Non-U.S. citizen	13,000	9,000	3,000	S	*
Permanent resident	8,000	7,000	1,000	S	*
Temporary resident	5,000	2,000	2,000	S	S
Earth/atmospheric/ocean scientists	71,000	43,000	8,000	S	20,000
U.S. citizen	68,000	42,000	7,000	S	19,000
Native-born	65,000	41,000	7,000	S	18,000
Naturalized	3,000	1,000	*	S	1,000
Non-U.S. citizen	3,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	2,000	*	1,000	S	S
Physicists/astronomers	31,000	14,000	11,000	S	5,000
U.S. citizen	25,000	12,000	8,000	S	5,000
Native-born	21,000	10,000	7,000	S	4,000
Naturalized	4,000	2,000	1,000	S	1,000
Non-U.S. citizen	6,000	2,000	4,000	S	*
Permanent resident	2,000	1,000	1,000	S	*

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Temporary resident	4,000	1,000	3,000	S	*
Postsecondary teachers-physical/related sciences	52,000	*	44,000	7,000	S
U.S. citizen	45,000	S	38,000	7,000	S
Native-born	39,000	S	33,000	6,000	S
Naturalized	6,000	S	5,000	1,000	S
Non-U.S. citizen	7,000	S	6,000	*	S
Permanent resident	3,000	S	3,000	*	S
Temporary resident	3,000	S	3,000	S	S
Other physical/related scientists	37,000	17,000	4,000	S	16,000
U.S. citizen	35,000	16,000	4,000	S	16,000
Native-born	33,000	15,000	3,000	S	15,000
Naturalized	2,000	1,000	S	S	1,000
Non-U.S. citizen	2,000	2,000	1,000	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	1,000	*	1,000	S	S
Social/related scientists	495,000	231,000	129,000	59,000	74,000
U.S. citizen	467,000	217,000	119,000	58,000	73,000
Native-born	440,000	205,000	110,000	55,000	71,000
Naturalized	27,000	13,000	9,000	3,000	2,000
Non-U.S. citizen	27,000	14,000	10,000	1,000	1,000
Permanent resident	16,000	9,000	5,000	1,000	1,000
Temporary resident	11,000	5,000	5,000	S	*
Economists	35,000	19,000	4,000	S	11,000
U.S. citizen	30,000	16,000	3,000	S	11,000
Native-born	28,000	15,000	3,000	S	10,000
Naturalized	2,000	1,000	*	S	*
Non-U.S. citizen	5,000	3,000	1,000	S	*
Permanent resident	2,000	1,000	*	S	*
Temporary resident	3,000	2,000	1,000	S	*
Political/related scientists	14,000	7,000	1,000	S	6,000
U.S. citizen	14,000	6,000	1,000	S	6,000
Native-born	13,000	6,000	1,000	S	6,000
Naturalized	*	*	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-social/related sciences	106,000	1,000	85,000	19,000	*
U.S. citizen	97,000	1,000	78,000	18,000	*
Native-born	90,000	1,000	70,000	18,000	*
Naturalized	8,000	S	7,000	1,000	S
Non-U.S. citizen	8,000	S	8,000	1,000	S
Permanent resident	5,000	S	4,000	*	S
Temporary resident	4,000	S	4,000	S	S
Psychologists	181,000	98,000	23,000	40,000	20,000
U.S. citizen	177,000	96,000	22,000	39,000	20,000
Native-born	168,000	91,000	21,000	37,000	19,000
Naturalized	9,000	5,000	1,000	2,000	1,000
Non-U.S. citizen	4,000	3,000	1,000	S	S
Permanent resident	3,000	2,000	*	S	S
Temporary resident	1,000	1,000	*	S	S
Sociologists/anthropologists	22,000	11,000	6,000	S	4,000
U.S. citizen	21,000	11,000	6,000	S	4,000
Native-born	21,000	10,000	6,000	S	4,000
Naturalized	1,000	1,000	*	S	S
Non-U.S. citizen	1,000	S	*	S	S

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Permanent resident	*	S	S	S	S
Temporary resident	*	S	S	S	S
Other social/related scientists	138,000	95,000	9,000	1,000	33,000
U.S. citizen	128,000	87,000	9,000	*	32,000
Native-born	121,000	81,000	8,000	*	31,000
Naturalized	7,000	6,000	*	S	1,000
Non-U.S. citizen	9,000	8,000	*	S	S
Permanent resident	7,000	5,000	S	S	S
Temporary resident	3,000	2,000	*	S	S
Engineers	1,555,000	1,273,000	68,000	6,000	208,000
U.S. citizen	1,438,000	1,175,000	52,000	5,000	205,000
Native-born	1,241,000	1,021,000	42,000	5,000	173,000
Naturalized	197,000	154,000	11,000	1,000	32,000
Non-U.S. citizen	117,000	98,000	16,000	S	2,000
Permanent resident	67,000	61,000	4,000	S	2,000
Temporary resident	50,000	38,000	12,000	S	*
Aerospace/aeronautical/astronautical engineers	95,000	75,000	2,000	S	18,000
U.S. citizen	93,000	73,000	2,000	S	18,000
Native-born	82,000	63,000	1,000	S	16,000
Naturalized	11,000	10,000	*	S	1,000
Non-U.S. citizen	2,000	2,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	*	*	*	S	S
Chemical engineers	75,000	67,000	3,000	S	5,000
U.S. citizen	68,000	61,000	1,000	S	5,000
Native-born	57,000	52,000	1,000	S	4,000
Naturalized	11,000	10,000	S	S	1,000
Non-U.S. citizen	7,000	5,000	1,000	S	S
Permanent resident	4,000	4,000	S	S	S
Temporary resident	3,000	2,000	1,000	S	S
Civil/architectural/sanitary engineers	247,000	163,000	2,000	S	82,000
U.S. citizen	235,000	153,000	2,000	S	80,000
Native-born	201,000	136,000	1,000	S	64,000
Naturalized	34,000	17,000	*	S	17,000
Non-U.S. citizen	12,000	10,000	1,000	S	2,000
Permanent resident	8,000	6,000	*	S	2,000
Temporary resident	5,000	4,000	1,000	S	S
Electrical/computer hardware engineers	367,000	325,000	11,000	S	31,000
U.S. citizen	322,000	284,000	7,000	S	31,000
Native-born	255,000	224,000	6,000	S	26,000
Naturalized	67,000	60,000	2,000	S	5,000
Non-U.S. citizen	45,000	42,000	4,000	S	*
Permanent resident	26,000	26,000	*	S	S
Temporary resident	19,000	16,000	3,000	S	S
Industrial engineers	86,000	80,000	1,000	S	4,000
U.S. citizen	79,000	74,000	1,000	S	4,000
Native-born	72,000	68,000	1,000	S	4,000
Naturalized	7,000	6,000	S	S	1,000
Non-U.S. citizen	6,000	6,000	*	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	4,000	3,000	S	S	S
Mechanical engineers	272,000	246,000	8,000	S	17,000
U.S. citizen	254,000	230,000	7,000	S	17,000
Native-born	224,000	203,000	6,000	S	15,000
Naturalized	30,000	27,000	1,000	S	3,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Non-U.S. citizen	18,000	16,000	2,000	S	S
Permanent resident	11,000	10,000	*	S	S
Temporary resident	7,000	6,000	1,000	S	S
Postsecondary teachers-engineering	33,000	S	29,000	4,000	S
U.S. citizen	27,000	S	23,000	4,000	S
Native-born	21,000	S	17,000	3,000	S
Naturalized	7,000	S	6,000	*	S
Non-U.S. citizen	6,000	S	5,000	S	S
Permanent resident	2,000	S	2,000	S	S
Temporary resident	3,000	S	3,000	S	S
Other engineers	380,000	317,000	13,000	S	50,000
U.S. citizen	359,000	299,000	10,000	S	50,000
Native-born	329,000	275,000	8,000	S	45,000
Naturalized	31,000	24,000	2,000	S	5,000
Non-U.S. citizen	20,000	17,000	3,000	S	*
Permanent resident	12,000	11,000	*	S	*
Temporary resident	8,000	6,000	2,000	S	S
S&E-related occupations	5,331,000	3,473,000	539,000	854,000	465,000
U.S. citizen	5,115,000	3,314,000	501,000	844,000	455,000
Native-born	4,529,000	2,889,000	427,000	809,000	405,000
Naturalized	586,000	425,000	74,000	36,000	51,000
Non-U.S. citizen	216,000	158,000	38,000	10,000	10,000
Permanent resident	168,000	127,000	25,000	8,000	9,000
Temporary resident	48,000	32,000	13,000	2,000	1,000
Health-related occupations	3,515,000	2,573,000	478,000	135,000	329,000
U.S. citizen	3,374,000	2,475,000	445,000	133,000	321,000
Native-born	2,941,000	2,154,000	379,000	127,000	281,000
Naturalized	433,000	321,000	66,000	6,000	40,000
Non-U.S. citizen	141,000	98,000	33,000	2,000	8,000
Permanent resident	114,000	82,000	23,000	2,000	7,000
Temporary resident	27,000	16,000	10,000	S	S
S&E managers	386,000	303,000	22,000	3,000	58,000
U.S. citizen	372,000	290,000	21,000	3,000	57,000
Native-born	339,000	265,000	18,000	3,000	53,000
Naturalized	32,000	25,000	3,000	S	4,000
Non-U.S. citizen	14,000	13,000	*	S	S
Permanent resident	10,000	9,000	S	S	S
Temporary resident	4,000	4,000	S	S	S
S&E precollege teachers	716,000	4,000	S	709,000	2,000
U.S. citizen	708,000	4,000	S	701,000	2,000
Native-born	679,000	4,000	S	672,000	2,000
Naturalized	29,000	S	S	29,000	S
Non-U.S. citizen	8,000	S	S	8,000	S
Permanent resident	6,000	S	S	6,000	S
Temporary resident	2,000	S	S	2,000	S
S&E technicians/technologists	500,000	395,000	36,000	6,000	64,000
U.S. citizen	458,000	358,000	31,000	6,000	63,000
Native-born	391,000	302,000	26,000	5,000	58,000
Naturalized	66,000	56,000	5,000	S	5,000
Non-U.S. citizen	42,000	36,000	5,000	S	1,000
Permanent resident	30,000	27,000	2,000	S	1,000
Temporary resident	12,000	9,000	3,000	S	S
Other S&E-related occupations	214,000	197,000	3,000	1,000	12,000
U.S. citizen	203,000	187,000	3,000	1,000	12,000
Native-born	178,000	164,000	3,000	S	10,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Naturalized	25,000	23,000	S	S	2,000
Non-U.S. citizen	11,000	11,000	S	S	S
Permanent resident	8,000	8,000	S	S	S
Temporary resident	3,000	3,000	S	S	S
Non-S&E occupations	7,873,000	5,551,000	346,000	898,000	1,079,000
U.S. citizen	7,533,000	5,266,000	327,000	880,000	1,061,000
Native-born	6,875,000	4,764,000	300,000	826,000	984,000
Naturalized	659,000	501,000	27,000	54,000	76,000
Non-U.S. citizen	340,000	285,000	19,000	18,000	18,000
Permanent resident	271,000	227,000	13,000	15,000	16,000
Temporary resident	69,000	58,000	6,000	3,000	2,000
Art/humanities/related occupations	248,000	221,000	11,000	2,000	14,000
U.S. citizen	236,000	211,000	11,000	2,000	12,000
Native-born	222,000	199,000	10,000	2,000	11,000
Naturalized	14,000	12,000	1,000	S	1,000
Non-U.S. citizen	11,000	10,000	S	S	S
Permanent resident	9,000	7,000	S	S	S
Temporary resident	2,000	S	S	S	S
Management-related occupations	1,310,000	1,058,000	49,000	23,000	181,000
U.S. citizen	1,251,000	1,005,000	46,000	23,000	177,000
Native-born	1,107,000	882,000	42,000	20,000	163,000
Naturalized	144,000	123,000	4,000	2,000	15,000
Non-U.S. citizen	59,000	53,000	3,000	S	3,000
Permanent resident	43,000	38,000	2,000	S	3,000
Temporary resident	16,000	16,000	S	S	S
Non-S&E managers	922,000	680,000	47,000	91,000	103,000
U.S. citizen	888,000	649,000	47,000	91,000	102,000
Native-born	823,000	594,000	44,000	89,000	97,000
Naturalized	65,000	55,000	3,000	2,000	4,000
Non-U.S. citizen	34,000	30,000	1,000	S	2,000
Permanent resident	27,000	24,000	1,000	S	S
Temporary resident	7,000	6,000	S	S	S
Non-S&E postsecondary teachers	140,000	3,000	102,000	29,000	6,000
U.S. citizen	131,000	2,000	94,000	28,000	6,000
Native-born	117,000	2,000	83,000	26,000	6,000
Naturalized	14,000	S	11,000	2,000	S
Non-U.S. citizen	9,000	S	8,000	1,000	S
Permanent resident	5,000	S	4,000	1,000	S
Temporary resident	4,000	S	3,000	S	S
Non-S&E precollege/other teachers	600,000	26,000	3,000	566,000	5,000
U.S. citizen	586,000	25,000	2,000	554,000	5,000
Native-born	550,000	23,000	2,000	519,000	5,000
Naturalized	37,000	1,000	S	35,000	S
Non-U.S. citizen	14,000	2,000	S	11,000	S
Permanent resident	11,000	2,000	S	9,000	S
Temporary resident	2,000	S	S	2,000	S
Sales/marketing occupations	1,322,000	1,304,000	6,000	S	11,000
U.S. citizen	1,263,000	1,245,000	6,000	S	11,000
Native-born	1,152,000	1,134,000	6,000	S	11,000
Naturalized	111,000	110,000	S	S	S
Non-U.S. citizen	59,000	59,000	S	S	S
Permanent resident	51,000	50,000	S	S	S
Temporary resident	8,000	8,000	S	S	S
Social services/related occupations	621,000	313,000	33,000	100,000	175,000
U.S. citizen	604,000	302,000	31,000	99,000	171,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Native-born	564,000	284,000	29,000	94,000	156,000
Naturalized	39,000	18,000	2,000	5,000	14,000
Non-U.S. citizen	17,000	11,000	1,000	S	4,000
Permanent resident	15,000	10,000	S	S	4,000
Temporary resident	2,000	1,000	S	S	S
Other non-S&E occupations	2,711,000	1,946,000	95,000	86,000	584,000
U.S. citizen	2,574,000	1,827,000	89,000	82,000	576,000
Native-born	2,340,000	1,647,000	83,000	75,000	536,000
Naturalized	234,000	181,000	6,000	7,000	40,000
Non-U.S. citizen	137,000	119,000	6,000	4,000	8,000
Permanent resident	110,000	94,000	6,000	4,000	6,000
Temporary resident	27,000	24,000	1,000	S	S
Bachelor's degrees, all occupations	10,490,000	7,801,000	566,000	841,000	1,281,000
U.S. citizen	10,005,000	7,390,000	529,000	826,000	1,259,000
Native-born	9,074,000	6,662,000	473,000	778,000	1,161,000
Naturalized	931,000	728,000	56,000	48,000	99,000
Non-U.S. citizen	485,000	411,000	37,000	15,000	21,000
Permanent resident	366,000	313,000	23,000	12,000	18,000
Temporary resident	119,000	99,000	14,000	4,000	3,000
S&E occupations	2,786,000	2,204,000	184,000	41,000	358,000
U.S. citizen	2,620,000	2,058,000	169,000	40,000	353,000
Native-born	2,373,000	1,861,000	157,000	37,000	319,000
Naturalized	246,000	197,000	11,000	3,000	34,000
Non-U.S. citizen	167,000	146,000	16,000	S	5,000
Permanent resident	107,000	97,000	5,000	S	3,000
Temporary resident	60,000	48,000	10,000	S	2,000
Scientists	1,777,000	1,358,000	165,000	38,000	216,000
U.S. citizen	1,653,000	1,252,000	152,000	37,000	213,000
Native-born	1,502,000	1,130,000	142,000	34,000	197,000
Naturalized	151,000	122,000	10,000	3,000	16,000
Non-U.S. citizen	123,000	106,000	13,000	S	4,000
Permanent resident	82,000	74,000	5,000	S	2,000
Temporary resident	42,000	32,000	8,000	S	2,000
Biological/agricultural/other life scientists	182,000	77,000	58,000	1,000	46,000
U.S. citizen	173,000	74,000	52,000	1,000	45,000
Native-born	162,000	70,000	49,000	1,000	43,000
Naturalized	11,000	5,000	4,000	S	2,000
Non-U.S. citizen	9,000	2,000	6,000	S	S
Permanent resident	5,000	2,000	3,000	S	S
Temporary resident	3,000	S	3,000	S	S
Agricultural/food scientists	26,000	15,000	3,000	S	8,000
U.S. citizen	24,000	14,000	2,000	S	8,000
Native-born	24,000	14,000	2,000	S	7,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	2,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Biological/medical scientists	118,000	50,000	45,000	S	23,000
U.S. citizen	113,000	48,000	42,000	S	22,000
Native-born	104,000	44,000	40,000	S	21,000
Naturalized	8,000	5,000	2,000	S	2,000
Non-U.S. citizen	5,000	1,000	4,000	S	S
Permanent resident	4,000	1,000	2,000	S	S
Temporary resident	2,000	S	1,000	S	S
Environmental life scientists	29,000	12,000	S	S	15,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
U.S. citizen	28,000	11,000	S	S	15,000
Native-born	27,000	11,000	S	S	15,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-life/related sciences	9,000	S	8,000	S	S
U.S. citizen	8,000	S	7,000	S	S
Native-born	8,000	S	7,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Computer/mathematical scientists	1,332,000	1,119,000	66,000	32,000	116,000
U.S. citizen	1,230,000	1,023,000	62,000	31,000	114,000
Native-born	1,104,000	916,000	57,000	29,000	101,000
Naturalized	126,000	107,000	5,000	2,000	12,000
Non-U.S. citizen	102,000	96,000	4,000	S	2,000
Permanent resident	69,000	65,000	2,000	S	2,000
Temporary resident	33,000	30,000	2,000	S	S
Computer/information scientists	1,282,000	1,102,000	55,000	20,000	105,000
U.S. citizen	1,181,000	1,006,000	51,000	20,000	103,000
Native-born	1,057,000	900,000	47,000	19,000	91,000
Naturalized	124,000	107,000	4,000	2,000	12,000
Non-U.S. citizen	102,000	95,000	4,000	S	2,000
Permanent resident	69,000	65,000	2,000	S	2,000
Temporary resident	33,000	30,000	2,000	S	S
Mathematical scientists	29,000	16,000	2,000	S	10,000
U.S. citizen	29,000	16,000	2,000	S	10,000
Native-born	28,000	16,000	2,000	S	10,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	21,000	S	9,000	11,000	S
U.S. citizen	21,000	S	9,000	11,000	S
Native-born	19,000	S	8,000	10,000	S
Naturalized	2,000	S	S	1,000	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physical/related scientists	139,000	89,000	23,000	S	27,000
U.S. citizen	133,000	86,000	20,000	S	27,000
Native-born	124,000	78,000	19,000	S	26,000
Naturalized	10,000	8,000	1,000	S	S
Non-U.S. citizen	6,000	3,000	3,000	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	3,000	S	2,000	S	S
Chemists, except biochemists	69,000	57,000	5,000	S	6,000
U.S. citizen	66,000	55,000	5,000	S	6,000
Native-born	59,000	48,000	5,000	S	6,000
Naturalized	7,000	7,000	S	S	S
Non-U.S. citizen	3,000	2,000	S	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	S	S	S	S	S

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Earth/atmospheric/ocean scientists	33,000	20,000	3,000	S	11,000
U.S. citizen	33,000	20,000	3,000	S	10,000
Native-born	32,000	20,000	3,000	S	10,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physicists/astronomers	5,000	2,000	3,000	S	*
U.S. citizen	4,000	2,000	2,000	S	*
Native-born	4,000	2,000	2,000	S	*
Naturalized	S	S	S	S	S
Non-U.S. citizen	1,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-physical/related sciences	10,000	S	9,000	S	S
U.S. citizen	9,000	S	8,000	S	S
Native-born	8,000	S	7,000	S	S
Naturalized	1,000	S	1,000	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other physical/related scientists	22,000	10,000	3,000	S	10,000
U.S. citizen	22,000	9,000	3,000	S	10,000
Native-born	21,000	8,000	S	S	10,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Social/related scientists	123,000	74,000	18,000	4,000	27,000
U.S. citizen	117,000	69,000	17,000	4,000	27,000
Native-born	113,000	66,000	17,000	4,000	26,000
Naturalized	4,000	3,000	S	S	S
Non-U.S. citizen	6,000	6,000	S	S	S
Permanent resident	4,000	4,000	S	S	S
Temporary resident	2,000	S	S	S	S
Economists	9,000	6,000	1,000	S	2,000
U.S. citizen	8,000	5,000	1,000	S	2,000
Native-born	8,000	5,000	1,000	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Political/related scientists	9,000	5,000	S	S	3,000
U.S. citizen	8,000	5,000	S	S	3,000
Native-born	8,000	5,000	S	S	3,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-social/related sciences	9,000	S	5,000	3,000	S
U.S. citizen	9,000	S	5,000	3,000	S
Native-born	9,000	S	5,000	3,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Psychologists	14,000	6,000	5,000	1,000	2,000
U.S. citizen	13,000	5,000	5,000	1,000	2,000
Native-born	12,000	5,000	4,000	S	2,000
Naturalized	1,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	9,000	5,000	1,000	S	2,000
U.S. citizen	9,000	5,000	1,000	S	2,000
Native-born	8,000	5,000	1,000	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	74,000	52,000	5,000	S	18,000
U.S. citizen	70,000	47,000	5,000	S	18,000
Native-born	67,000	46,000	5,000	S	17,000
Naturalized	2,000	2,000	S	S	S
Non-U.S. citizen	4,000	4,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	S	S	S	S	S
Engineers	1,010,000	846,000	19,000	3,000	142,000
U.S. citizen	966,000	806,000	16,000	3,000	141,000
Native-born	871,000	731,000	15,000	3,000	122,000
Naturalized	95,000	75,000	1,000	S	18,000
Non-U.S. citizen	43,000	39,000	3,000	S	1,000
Permanent resident	25,000	23,000	*	S	1,000
Temporary resident	19,000	16,000	2,000	S	S
Aerospace/aeronautical/astronautical engineers	53,000	43,000	*	S	9,000
U.S. citizen	53,000	42,000	*	S	9,000
Native-born	48,000	38,000	*	S	8,000
Naturalized	5,000	4,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	45,000	39,000	1,000	S	4,000
U.S. citizen	43,000	38,000	1,000	S	4,000
Native-born	39,000	34,000	1,000	S	4,000
Naturalized	4,000	4,000	S	S	S
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	S	S	S	S
Civil/architectural/sanitary engineers	174,000	112,000	1,000	S	61,000
U.S. citizen	169,000	108,000	1,000	S	60,000
Native-born	151,000	100,000	1,000	S	51,000
Naturalized	17,000	8,000	S	S	9,000
Non-U.S. citizen	5,000	4,000	S	S	1,000
Permanent resident	4,000	3,000	S	S	1,000
Temporary resident	1,000	1,000	S	S	S
Electrical/computer hardware engineers	229,000	205,000	3,000	S	20,000
U.S. citizen	210,000	187,000	3,000	S	20,000
Native-born	175,000	156,000	3,000	S	16,000
Naturalized	35,000	30,000	S	S	4,000
Non-U.S. citizen	19,000	18,000	S	S	S
Permanent resident	10,000	10,000	S	S	S

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Temporary resident	9,000	8,000	S	S	S
Industrial engineers	60,000	58,000	1,000	S	2,000
U.S. citizen	58,000	55,000	1,000	S	2,000
Native-born	53,000	51,000	1,000	S	2,000
Naturalized	5,000	5,000	S	S	S
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Mechanical engineers	188,000	173,000	4,000	S	11,000
U.S. citizen	181,000	166,000	4,000	S	11,000
Native-born	166,000	152,000	4,000	S	10,000
Naturalized	15,000	14,000	S	S	2,000
Non-U.S. citizen	7,000	6,000	S	S	S
Permanent resident	5,000	5,000	S	S	S
Temporary resident	2,000	2,000	S	S	S
Postsecondary teachers-engineering	5,000	S	4,000	2,000	S
U.S. citizen	4,000	S	3,000	2,000	S
Native-born	4,000	S	2,000	2,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Other engineers	255,000	216,000	5,000	S	33,000
U.S. citizen	248,000	210,000	5,000	S	33,000
Native-born	235,000	199,000	4,000	S	31,000
Naturalized	14,000	11,000	S	S	2,000
Non-U.S. citizen	6,000	6,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	3,000	3,000	S	S	S
S&E-related occupations	2,956,000	1,990,000	258,000	417,000	291,000
U.S. citizen	2,838,000	1,897,000	243,000	412,000	286,000
Native-born	2,550,000	1,685,000	208,000	396,000	262,000
Naturalized	288,000	212,000	35,000	16,000	24,000
Non-U.S. citizen	118,000	93,000	14,000	5,000	5,000
Permanent resident	97,000	76,000	12,000	4,000	5,000
Temporary resident	21,000	18,000	2,000	S	S
Health-related occupations	1,829,000	1,350,000	221,000	56,000	203,000
U.S. citizen	1,753,000	1,292,000	208,000	55,000	198,000
Native-born	1,552,000	1,144,000	177,000	51,000	180,000
Naturalized	200,000	148,000	31,000	4,000	17,000
Non-U.S. citizen	76,000	58,000	13,000	S	5,000
Permanent resident	65,000	49,000	11,000	S	5,000
Temporary resident	11,000	9,000	S	S	S
S&E managers	219,000	184,000	8,000	S	26,000
U.S. citizen	212,000	177,000	8,000	S	26,000
Native-born	199,000	167,000	6,000	S	24,000
Naturalized	14,000	10,000	S	S	2,000
Non-U.S. citizen	7,000	7,000	S	S	S
Permanent resident	4,000	4,000	S	S	S
Temporary resident	3,000	3,000	S	S	S
S&E precollege teachers	357,000	S	S	355,000	S
U.S. citizen	353,000	S	S	351,000	S
Native-born	342,000	S	S	339,000	S
Naturalized	11,000	S	S	11,000	S
Non-U.S. citizen	4,000	S	S	4,000	S

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Permanent resident	3,000	S	S	3,000	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	401,000	318,000	26,000	3,000	54,000
U.S. citizen	376,000	296,000	24,000	3,000	53,000
Native-born	331,000	257,000	22,000	3,000	50,000
Naturalized	45,000	39,000	3,000	S	4,000
Non-U.S. citizen	25,000	23,000	2,000	S	S
Permanent resident	20,000	18,000	1,000	S	S
Temporary resident	5,000	4,000	S	S	S
Other S&E-related occupations	149,000	137,000	3,000	S	8,000
U.S. citizen	143,000	131,000	3,000	S	8,000
Native-born	126,000	116,000	3,000	S	6,000
Naturalized	17,000	15,000	S	S	1,000
Non-U.S. citizen	6,000	6,000	S	S	S
Permanent resident	5,000	5,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	4,747,000	3,607,000	125,000	384,000	631,000
U.S. citizen	4,547,000	3,435,000	118,000	374,000	620,000
Native-born	4,150,000	3,116,000	108,000	346,000	580,000
Naturalized	397,000	319,000	10,000	29,000	40,000
Non-U.S. citizen	200,000	172,000	7,000	10,000	11,000
Permanent resident	162,000	140,000	6,000	7,000	9,000
Temporary resident	38,000	33,000	1,000	2,000	S
Art/humanities/related occupations	160,000	145,000	5,000	1,000	8,000
U.S. citizen	155,000	141,000	5,000	1,000	8,000
Native-born	146,000	132,000	5,000	1,000	8,000
Naturalized	9,000	8,000	S	S	S
Non-U.S. citizen	5,000	5,000	S	S	S
Permanent resident	5,000	5,000	S	S	S
Temporary resident	S	S	S	S	S
Management-related occupations	793,000	663,000	25,000	11,000	95,000
U.S. citizen	769,000	640,000	24,000	11,000	94,000
Native-born	683,000	562,000	21,000	10,000	89,000
Naturalized	86,000	78,000	2,000	S	5,000
Non-U.S. citizen	25,000	23,000	S	S	S
Permanent resident	18,000	16,000	S	S	S
Temporary resident	7,000	7,000	S	S	S
Non-S&E managers	456,000	392,000	4,000	13,000	47,000
U.S. citizen	437,000	375,000	4,000	13,000	45,000
Native-born	409,000	349,000	4,000	12,000	44,000
Naturalized	28,000	26,000	S	S	S
Non-U.S. citizen	19,000	17,000	S	S	S
Permanent resident	16,000	14,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E postsecondary teachers	26,000	2,000	16,000	5,000	2,000
U.S. citizen	24,000	2,000	15,000	5,000	S
Native-born	21,000	2,000	12,000	5,000	S
Naturalized	4,000	S	3,000	S	S
Non-U.S. citizen	1,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E precollege/other teachers	304,000	15,000	1,000	285,000	3,000
U.S. citizen	297,000	14,000	1,000	279,000	3,000
Native-born	275,000	14,000	1,000	257,000	2,000
Naturalized	22,000	S	S	22,000	S

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Non-U.S. citizen	7,000	S	S	6,000	S
Permanent resident	5,000	S	S	4,000	S
Temporary resident	2,000	S	S	S	S
Sales/marketing occupations	980,000	965,000	6,000	S	9,000
U.S. citizen	943,000	928,000	6,000	S	9,000
Native-born	872,000	857,000	6,000	S	9,000
Naturalized	71,000	71,000	S	S	S
Non-U.S. citizen	37,000	37,000	S	S	S
Permanent resident	32,000	32,000	S	S	S
Temporary resident	5,000	5,000	S	S	S
Social services/related occupations	240,000	117,000	12,000	16,000	95,000
U.S. citizen	230,000	110,000	12,000	15,000	93,000
Native-born	214,000	102,000	12,000	14,000	87,000
Naturalized	16,000	8,000	S	S	6,000
Non-U.S. citizen	10,000	7,000	S	S	3,000
Permanent resident	9,000	6,000	S	S	3,000
Temporary resident	1,000	S	S	S	S
Other non-S&E occupations	1,789,000	1,309,000	55,000	51,000	372,000
U.S. citizen	1,693,000	1,226,000	52,000	49,000	367,000
Native-born	1,531,000	1,098,000	48,000	45,000	340,000
Naturalized	162,000	128,000	3,000	4,000	27,000
Non-U.S. citizen	96,000	84,000	4,000	S	6,000
Permanent resident	76,000	66,000	4,000	S	5,000
Temporary resident	20,000	18,000	S	S	S
Master's degrees, all occupations	4,979,000	3,026,000	370,000	976,000	607,000
U.S. citizen	4,625,000	2,740,000	328,000	964,000	594,000
Native-born	4,126,000	2,375,000	300,000	922,000	530,000
Naturalized	499,000	365,000	28,000	42,000	64,000
Non-U.S. citizen	354,000	286,000	42,000	12,000	13,000
Permanent resident	230,000	195,000	13,000	11,000	11,000
Temporary resident	124,000	91,000	29,000	2,000	2,000
S&E occupations	1,424,000	1,009,000	151,000	84,000	180,000
U.S. citizen	1,215,000	839,000	119,000	82,000	175,000
Native-born	1,025,000	686,000	107,000	78,000	154,000
Naturalized	190,000	153,000	12,000	4,000	21,000
Non-U.S. citizen	209,000	170,000	32,000	2,000	5,000
Permanent resident	119,000	107,000	7,000	2,000	3,000
Temporary resident	90,000	63,000	24,000	S	2,000
Scientists	974,000	640,000	130,000	82,000	123,000
U.S. citizen	818,000	514,000	106,000	80,000	118,000
Native-born	704,000	423,000	96,000	76,000	109,000
Naturalized	114,000	91,000	10,000	3,000	10,000
Non-U.S. citizen	156,000	125,000	24,000	2,000	4,000
Permanent resident	90,000	79,000	6,000	2,000	3,000
Temporary resident	66,000	46,000	18,000	S	2,000
Biological/agricultural/other life scientists	98,000	33,000	33,000	6,000	25,000
U.S. citizen	88,000	30,000	27,000	6,000	25,000
Native-born	81,000	26,000	25,000	6,000	24,000
Naturalized	7,000	4,000	2,000	S	1,000
Non-U.S. citizen	10,000	3,000	5,000	S	S
Permanent resident	5,000	3,000	2,000	S	S
Temporary resident	5,000	1,000	4,000	S	S
Agricultural/food scientists	13,000	5,000	5,000	S	2,000
U.S. citizen	11,000	4,000	4,000	S	2,000
Native-born	11,000	4,000	4,000	S	2,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Naturalized	S	S	S	S	S
Non-U.S. citizen	2,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Biological/medical scientists	63,000	25,000	19,000	S	18,000
U.S. citizen	56,000	23,000	16,000	S	17,000
Native-born	49,000	19,000	14,000	S	16,000
Naturalized	6,000	4,000	2,000	S	1,000
Non-U.S. citizen	7,000	2,000	4,000	S	S
Permanent resident	3,000	2,000	1,000	S	S
Temporary resident	4,000	1,000	3,000	S	S
Environmental life scientists	9,000	3,000	S	S	6,000
U.S. citizen	9,000	3,000	S	S	6,000
Native-born	9,000	3,000	S	S	6,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-life/related sciences	13,000	S	7,000	6,000	S
U.S. citizen	13,000	S	7,000	6,000	S
Native-born	13,000	S	6,000	6,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Computer/mathematical scientists	578,000	455,000	48,000	27,000	49,000
U.S. citizen	451,000	343,000	36,000	25,000	47,000
Native-born	362,000	267,000	31,000	24,000	40,000
Naturalized	89,000	75,000	5,000	1,000	7,000
Non-U.S. citizen	127,000	112,000	11,000	1,000	3,000
Permanent resident	77,000	70,000	4,000	1,000	2,000
Temporary resident	50,000	42,000	7,000	S	1,000
Computer/information scientists	515,000	439,000	26,000	7,000	42,000
U.S. citizen	394,000	329,000	18,000	7,000	40,000
Native-born	311,000	256,000	15,000	7,000	34,000
Naturalized	83,000	74,000	3,000	S	6,000
Non-U.S. citizen	121,000	110,000	8,000	S	3,000
Permanent resident	74,000	70,000	3,000	S	2,000
Temporary resident	46,000	40,000	5,000	S	1,000
Mathematical scientists	25,000	15,000	3,000	S	7,000
U.S. citizen	23,000	13,000	2,000	S	7,000
Native-born	19,000	11,000	2,000	S	6,000
Naturalized	3,000	2,000	S	S	1,000
Non-U.S. citizen	3,000	2,000	1,000	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	2,000	1,000	*	S	S
Postsecondary teachers-computer/mathematical sciences	38,000	S	19,000	19,000	S
U.S. citizen	34,000	S	16,000	17,000	S
Native-born	31,000	S	14,000	16,000	S
Naturalized	3,000	S	2,000	1,000	S
Non-U.S. citizen	4,000	S	3,000	1,000	S
Permanent resident	2,000	S	1,000	1,000	S
Temporary resident	2,000	S	2,000	S	S
Physical/related scientists	83,000	49,000	15,000	4,000	15,000
U.S. citizen	76,000	46,000	11,000	4,000	15,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Native-born	67,000	40,000	10,000	3,000	14,000
Naturalized	9,000	6,000	2,000	S	1,000
Non-U.S. citizen	7,000	3,000	4,000	S	S
Permanent resident	3,000	2,000	*	S	S
Temporary resident	4,000	1,000	3,000	S	S
Chemists, except biochemists	25,000	20,000	2,000	S	3,000
U.S. citizen	21,000	17,000	1,000	S	3,000
Native-born	16,000	13,000	*	S	2,000
Naturalized	5,000	4,000	S	S	1,000
Non-U.S. citizen	4,000	3,000	1,000	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	2,000	1,000	1,000	S	S
Earth/atmospheric/ocean scientists	27,000	19,000	2,000	S	6,000
U.S. citizen	26,000	19,000	2,000	S	5,000
Native-born	26,000	18,000	2,000	S	5,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	S	*	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	S	*	S	S
Physicists/astronomers	8,000	5,000	2,000	S	1,000
U.S. citizen	7,000	5,000	1,000	S	1,000
Native-born	6,000	4,000	1,000	S	1,000
Naturalized	1,000	S	S	S	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Postsecondary teachers-physical/related sciences	12,000	S	8,000	4,000	S
U.S. citizen	11,000	S	7,000	4,000	S
Native-born	9,000	S	6,000	3,000	S
Naturalized	1,000	S	1,000	S	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Other physical/related scientists	10,000	5,000	S	S	5,000
U.S. citizen	10,000	5,000	S	S	5,000
Native-born	9,000	5,000	S	S	5,000
Naturalized	1,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Social/related scientists	215,000	102,000	35,000	45,000	33,000
U.S. citizen	203,000	96,000	31,000	44,000	32,000
Native-born	193,000	89,000	29,000	43,000	32,000
Naturalized	9,000	6,000	1,000	2,000	S
Non-U.S. citizen	12,000	7,000	4,000	S	S
Permanent resident	5,000	4,000	S	S	S
Temporary resident	7,000	3,000	3,000	S	S
Economists	17,000	9,000	2,000	S	6,000
U.S. citizen	15,000	8,000	1,000	S	6,000
Native-born	14,000	7,000	1,000	S	6,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	3,000	2,000	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	1,000	1,000	S	S
Political/related scientists	4,000	1,000	*	S	2,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
U.S. citizen	4,000	1,000	S	S	2,000
Native-born	4,000	1,000	S	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-social/related sciences	30,000	S	18,000	12,000	S
U.S. citizen	27,000	S	15,000	11,000	S
Native-born	26,000	S	14,000	11,000	S
Naturalized	1,000	S	1,000	*	S
Non-U.S. citizen	3,000	S	3,000	S	S
Permanent resident	1,000	S	S	S	S
Temporary resident	2,000	S	2,000	S	S
Psychologists	100,000	48,000	9,000	33,000	10,000
U.S. citizen	98,000	47,000	9,000	33,000	10,000
Native-born	95,000	45,000	9,000	31,000	10,000
Naturalized	3,000	2,000	S	1,000	S
Non-U.S. citizen	2,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	8,000	4,000	3,000	S	1,000
U.S. citizen	8,000	4,000	2,000	S	1,000
Native-born	8,000	4,000	2,000	S	1,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	56,000	40,000	3,000	S	13,000
U.S. citizen	52,000	36,000	2,000	S	13,000
Native-born	48,000	33,000	2,000	S	12,000
Naturalized	4,000	3,000	S	S	S
Non-U.S. citizen	4,000	4,000	S	S	S
Permanent resident	3,000	2,000	S	S	S
Temporary resident	2,000	2,000	S	S	S
Engineers	450,000	369,000	21,000	2,000	57,000
U.S. citizen	397,000	325,000	14,000	2,000	57,000
Native-born	321,000	263,000	11,000	2,000	45,000
Naturalized	76,000	62,000	2,000	S	11,000
Non-U.S. citizen	53,000	44,000	8,000	S	1,000
Permanent resident	29,000	28,000	1,000	S	1,000
Temporary resident	24,000	17,000	7,000	S	S
Aerospace/aeronautical/astronautical engineers	37,000	27,000	1,000	S	8,000
U.S. citizen	36,000	27,000	1,000	S	8,000
Native-born	31,000	23,000	1,000	S	8,000
Naturalized	5,000	4,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	*	S	S
Permanent resident	1,000	S	S	S	S
Temporary resident	*	S	*	S	S
Chemical engineers	21,000	20,000	1,000	S	S
U.S. citizen	18,000	17,000	*	S	S
Native-born	14,000	14,000	*	S	S
Naturalized	3,000	3,000	S	S	S
Non-U.S. citizen	3,000	2,000	*	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	1,000	1,000	*	S	S

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Civil/architectural/sanitary engineers	68,000	48,000	1,000	S	19,000
U.S. citizen	63,000	43,000	1,000	S	19,000
Native-born	47,000	35,000	1,000	S	12,000
Naturalized	15,000	8,000	S	S	7,000
Non-U.S. citizen	6,000	5,000	S	S	*
Permanent resident	3,000	2,000	S	S	*
Temporary resident	3,000	3,000	S	S	S
Electrical/computer hardware engineers	118,000	103,000	5,000	S	9,000
U.S. citizen	97,000	85,000	3,000	S	9,000
Native-born	71,000	61,000	2,000	S	8,000
Naturalized	26,000	24,000	1,000	S	1,000
Non-U.S. citizen	20,000	18,000	2,000	S	S
Permanent resident	12,000	12,000	S	S	S
Temporary resident	8,000	5,000	2,000	S	S
Industrial engineers	23,000	20,000	*	S	2,000
U.S. citizen	19,000	17,000	S	S	2,000
Native-born	17,000	16,000	S	S	2,000
Naturalized	2,000	2,000	S	S	S
Non-U.S. citizen	4,000	3,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	2,000	2,000	S	S	S
Mechanical engineers	74,000	65,000	3,000	S	5,000
U.S. citizen	65,000	58,000	2,000	S	5,000
Native-born	54,000	47,000	2,000	S	5,000
Naturalized	11,000	10,000	S	S	1,000
Non-U.S. citizen	9,000	8,000	1,000	S	S
Permanent resident	5,000	5,000	S	S	S
Temporary resident	4,000	3,000	1,000	S	S
Postsecondary teachers-engineering	8,000	S	6,000	2,000	S
U.S. citizen	6,000	S	4,000	2,000	S
Native-born	5,000	S	4,000	1,000	S
Naturalized	1,000	S	S	S	S
Non-U.S. citizen	2,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Other engineers	102,000	85,000	4,000	S	13,000
U.S. citizen	93,000	77,000	3,000	S	13,000
Native-born	81,000	67,000	2,000	S	11,000
Naturalized	12,000	10,000	S	S	2,000
Non-U.S. citizen	9,000	8,000	1,000	S	S
Permanent resident	5,000	5,000	S	S	S
Temporary resident	4,000	2,000	1,000	S	S
S&E-related occupations	1,228,000	611,000	86,000	417,000	113,000
U.S. citizen	1,190,000	582,000	82,000	414,000	112,000
Native-born	1,080,000	511,000	74,000	396,000	99,000
Naturalized	110,000	71,000	8,000	18,000	13,000
Non-U.S. citizen	37,000	29,000	4,000	3,000	1,000
Permanent resident	28,000	23,000	2,000	2,000	1,000
Temporary resident	9,000	7,000	1,000	S	S
Health-related occupations	599,000	382,000	70,000	76,000	72,000
U.S. citizen	589,000	374,000	68,000	76,000	72,000
Native-born	536,000	337,000	62,000	74,000	62,000
Naturalized	53,000	37,000	5,000	2,000	10,000
Non-U.S. citizen	11,000	8,000	2,000	S	S
Permanent resident	11,000	8,000	2,000	S	S
Temporary resident	S	S	S	S	S

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
S&E managers	135,000	99,000	9,000	S	27,000
U.S. citizen	130,000	94,000	9,000	S	26,000
Native-born	117,000	83,000	8,000	S	25,000
Naturalized	13,000	11,000	1,000	S	1,000
Non-U.S. citizen	5,000	4,000	S	S	S
Permanent resident	4,000	4,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
S&E precollege teachers	341,000	3,000	S	337,000	1,000
U.S. citizen	338,000	3,000	S	334,000	1,000
Native-born	322,000	3,000	S	318,000	1,000
Naturalized	16,000	S	S	16,000	S
Non-U.S. citizen	3,000	S	S	3,000	S
Permanent resident	2,000	S	S	2,000	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	89,000	70,000	7,000	S	10,000
U.S. citizen	76,000	59,000	6,000	S	9,000
Native-born	57,000	42,000	4,000	S	8,000
Naturalized	19,000	16,000	1,000	S	1,000
Non-U.S. citizen	14,000	12,000	1,000	S	S
Permanent resident	8,000	7,000	S	S	S
Temporary resident	5,000	4,000	1,000	S	S
Other S&E-related occupations	62,000	58,000	S	S	4,000
U.S. citizen	57,000	53,000	S	S	4,000
Native-born	49,000	46,000	S	S	3,000
Naturalized	8,000	7,000	S	S	S
Non-U.S. citizen	5,000	5,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	2,000	2,000	S	S	S
Non-S&E occupations	2,328,000	1,406,000	133,000	475,000	314,000
U.S. citizen	2,220,000	1,319,000	126,000	468,000	307,000
Native-born	2,021,000	1,178,000	118,000	448,000	277,000
Naturalized	199,000	141,000	8,000	20,000	30,000
Non-U.S. citizen	108,000	87,000	7,000	7,000	7,000
Permanent resident	83,000	66,000	4,000	6,000	7,000
Temporary resident	25,000	22,000	3,000	S	S
Art/humanities/related occupations	74,000	63,000	5,000	S	5,000
U.S. citizen	69,000	59,000	5,000	S	3,000
Native-born	65,000	56,000	5,000	S	3,000
Naturalized	4,000	3,000	S	S	S
Non-U.S. citizen	5,000	4,000	S	S	S
Permanent resident	3,000	S	S	S	S
Temporary resident	S	S	S	S	S
Management-related occupations	457,000	353,000	17,000	11,000	77,000
U.S. citizen	428,000	327,000	16,000	11,000	74,000
Native-born	375,000	287,000	14,000	9,000	65,000
Naturalized	53,000	41,000	2,000	S	9,000
Non-U.S. citizen	30,000	26,000	S	S	3,000
Permanent resident	21,000	18,000	S	S	2,000
Temporary resident	8,000	8,000	S	S	S
Non-S&E Managers	362,000	235,000	18,000	63,000	46,000
U.S. citizen	351,000	225,000	18,000	63,000	45,000
Native-born	325,000	203,000	17,000	62,000	43,000
Naturalized	26,000	21,000	1,000	1,000	3,000
Non-U.S. citizen	11,000	11,000	S	S	S
Permanent resident	7,000	7,000	S	S	S

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Temporary resident	4,000	4,000	S	S	S
Non-S&E postsecondary teachers	63,000	S	39,000	20,000	3,000
U.S. citizen	60,000	S	37,000	20,000	3,000
Native-born	57,000	S	35,000	19,000	3,000
Naturalized	3,000	S	2,000	1,000	S
Non-U.S. citizen	3,000	S	2,000	S	S
Permanent resident	1,000	S	1,000	S	S
Temporary resident	2,000	S	2,000	S	S
Non-S&E precollege/other teachers	283,000	10,000	1,000	268,000	3,000
U.S. citizen	278,000	9,000	1,000	264,000	3,000
Native-born	264,000	8,000	1,000	252,000	2,000
Naturalized	14,000	1,000	S	12,000	S
Non-U.S. citizen	5,000	S	S	4,000	S
Permanent resident	5,000	S	S	4,000	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	304,000	302,000	S	S	2,000
U.S. citizen	286,000	284,000	S	S	2,000
Native-born	251,000	250,000	S	S	S
Naturalized	34,000	34,000	S	S	S
Non-U.S. citizen	18,000	18,000	S	S	S
Permanent resident	15,000	15,000	S	S	S
Temporary resident	3,000	3,000	S	S	S
Social services/related occupations	353,000	175,000	18,000	82,000	78,000
U.S. citizen	348,000	173,000	18,000	82,000	77,000
Native-born	328,000	165,000	16,000	78,000	69,000
Naturalized	21,000	8,000	2,000	4,000	7,000
Non-U.S. citizen	5,000	2,000	S	S	S
Permanent resident	4,000	2,000	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	432,000	267,000	34,000	29,000	102,000
U.S. citizen	400,000	241,000	31,000	28,000	100,000
Native-born	356,000	210,000	29,000	27,000	91,000
Naturalized	44,000	32,000	2,000	S	9,000
Non-U.S. citizen	32,000	26,000	2,000	2,000	2,000
Permanent resident	27,000	22,000	2,000	2,000	2,000
Temporary resident	5,000	4,000	1,000	S	S
Doctorate degrees, all occupations	885,000	366,000	385,000	59,000	75,000
U.S. citizen	748,000	300,000	324,000	55,000	69,000
Native-born	605,000	228,000	270,000	51,000	56,000
Naturalized	143,000	71,000	54,000	5,000	13,000
Non-U.S. citizen	137,000	67,000	62,000	3,000	6,000
Permanent resident	92,000	49,000	37,000	3,000	3,000
Temporary resident	45,000	18,000	25,000	*	2,000
S&E occupations	558,000	216,000	272,000	18,000	52,000
U.S. citizen	454,000	170,000	219,000	17,000	48,000
Native-born	359,000	127,000	179,000	15,000	38,000
Naturalized	95,000	43,000	41,000	2,000	9,000
Non-U.S. citizen	104,000	46,000	52,000	1,000	5,000
Permanent resident	65,000	31,000	30,000	1,000	3,000
Temporary resident	39,000	15,000	22,000	*	2,000
Scientists	465,000	159,000	244,000	17,000	45,000
U.S. citizen	381,000	127,000	197,000	16,000	40,000
Native-born	312,000	101,000	164,000	15,000	33,000
Naturalized	69,000	27,000	33,000	2,000	7,000
Non-U.S. citizen	84,000	32,000	47,000	1,000	4,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Permanent resident	52,000	22,000	28,000	1,000	2,000
Temporary resident	31,000	10,000	19,000	*	2,000
Biological/agricultural/other life scientists	148,000	38,000	90,000	3,000	17,000
U.S. citizen	112,000	28,000	67,000	3,000	14,000
Native-born	88,000	20,000	54,000	2,000	12,000
Naturalized	24,000	7,000	13,000	*	3,000
Non-U.S. citizen	36,000	10,000	23,000	*	3,000
Permanent resident	22,000	7,000	12,000	S	2,000
Temporary resident	14,000	3,000	11,000	S	1,000
Agricultural/food scientists	9,000	4,000	4,000	S	2,000
U.S. citizen	8,000	3,000	3,000	S	2,000
Native-born	7,000	3,000	2,000	S	2,000
Naturalized	1,000	1,000	*	S	S
Non-U.S. citizen	2,000	1,000	1,000	S	S
Permanent resident	1,000	*	1,000	S	S
Temporary resident	*	*	*	S	S
Biological/medical scientists	103,000	34,000	54,000	*	15,000
U.S. citizen	72,000	24,000	35,000	*	12,000
Native-born	53,000	17,000	26,000	*	9,000
Naturalized	19,000	7,000	9,000	S	3,000
Non-U.S. citizen	31,000	9,000	19,000	S	3,000
Permanent resident	18,000	7,000	10,000	S	1,000
Temporary resident	13,000	2,000	9,000	S	1,000
Environmental life scientists	2,000	*	1,000	S	1,000
U.S. citizen	2,000	*	1,000	S	1,000
Native-born	1,000	*	*	S	1,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-life/related sciences	34,000	S	31,000	3,000	S
U.S. citizen	31,000	S	28,000	2,000	S
Native-born	27,000	S	25,000	2,000	S
Naturalized	4,000	S	3,000	*	S
Non-U.S. citizen	3,000	S	3,000	*	S
Permanent resident	2,000	S	2,000	S	S
Temporary resident	1,000	S	1,000	S	S
Computer/mathematical scientists	86,000	40,000	38,000	3,000	5,000
U.S. citizen	64,000	28,000	29,000	2,000	5,000
Native-born	46,000	19,000	22,000	2,000	3,000
Naturalized	18,000	9,000	7,000	*	1,000
Non-U.S. citizen	23,000	13,000	9,000	*	*
Permanent resident	15,000	9,000	6,000	*	*
Temporary resident	7,000	4,000	3,000	S	S
Computer/information scientists	43,000	35,000	5,000	*	3,000
U.S. citizen	30,000	23,000	3,000	*	2,000
Native-born	20,000	15,000	3,000	*	2,000
Naturalized	10,000	8,000	1,000	S	1,000
Non-U.S. citizen	13,000	11,000	1,000	S	*
Permanent resident	8,000	8,000	*	S	S
Temporary resident	4,000	3,000	1,000	S	S
Mathematical scientists	11,000	6,000	3,000	S	2,000
U.S. citizen	8,000	4,000	2,000	S	2,000
Native-born	6,000	3,000	1,000	S	1,000
Naturalized	2,000	1,000	*	S	1,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Non-U.S. citizen	3,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	1,000	1,000	1,000	S	S
Postsecondary teachers-computer/mathematical sciences	33,000	S	31,000	2,000	S
U.S. citizen	26,000	S	24,000	2,000	S
Native-born	19,000	S	18,000	2,000	S
Naturalized	6,000	S	6,000	*	S
Non-U.S. citizen	7,000	S	7,000	*	S
Permanent resident	5,000	S	5,000	S	S
Temporary resident	2,000	S	2,000	S	S
Physical/related scientists	91,000	35,000	42,000	3,000	11,000
U.S. citizen	74,000	27,000	33,000	3,000	11,000
Native-born	59,000	20,000	28,000	2,000	8,000
Naturalized	15,000	7,000	5,000	*	2,000
Non-U.S. citizen	17,000	7,000	9,000	*	1,000
Permanent resident	10,000	5,000	5,000	*	*
Temporary resident	7,000	2,000	4,000	S	*
Chemists, except biochemists	30,000	22,000	4,000	S	3,000
U.S. citizen	24,000	18,000	3,000	S	3,000
Native-born	17,000	13,000	2,000	S	2,000
Naturalized	6,000	5,000	1,000	S	1,000
Non-U.S. citizen	6,000	4,000	2,000	S	*
Permanent resident	4,000	3,000	1,000	S	S
Temporary resident	2,000	1,000	1,000	S	S
Earth/atmospheric/ocean scientists	10,000	3,000	3,000	S	3,000
U.S. citizen	9,000	3,000	2,000	S	3,000
Native-born	7,000	2,000	2,000	S	3,000
Naturalized	1,000	*	*	S	1,000
Non-U.S. citizen	2,000	1,000	1,000	S	S
Permanent resident	1,000	*	*	S	S
Temporary resident	1,000	*	1,000	S	S
Physicists/astronomers	17,000	7,000	6,000	S	4,000
U.S. citizen	13,000	5,000	4,000	S	3,000
Native-born	10,000	4,000	3,000	S	3,000
Naturalized	3,000	1,000	1,000	S	1,000
Non-U.S. citizen	4,000	2,000	2,000	S	*
Permanent resident	2,000	1,000	1,000	S	*
Temporary resident	2,000	1,000	1,000	S	*
Postsecondary teachers-physical/related sciences	30,000	S	27,000	3,000	S
U.S. citizen	26,000	S	23,000	3,000	S
Native-born	22,000	S	20,000	2,000	S
Naturalized	4,000	S	3,000	*	S
Non-U.S. citizen	4,000	S	4,000	*	S
Permanent resident	3,000	S	3,000	*	S
Temporary resident	1,000	S	1,000	S	S
Other physical/related scientists	4,000	2,000	1,000	S	1,000
U.S. citizen	3,000	1,000	1,000	S	1,000
Native-born	2,000	1,000	1,000	S	*
Naturalized	1,000	1,000	S	S	*
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	*	*	S	S
Temporary resident	1,000	S	*	S	S
Social/related scientists	140,000	46,000	74,000	9,000	11,000
U.S. citizen	131,000	44,000	68,000	8,000	11,000
Native-born	119,000	41,000	61,000	8,000	10,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Naturalized	12,000	3,000	7,000	1,000	1,000
Non-U.S. citizen	9,000	2,000	6,000	*	*
Permanent resident	6,000	1,000	4,000	*	*
Temporary resident	3,000	1,000	2,000	S	S
Economists	9,000	4,000	2,000	S	3,000
U.S. citizen	7,000	3,000	1,000	S	2,000
Native-born	6,000	3,000	1,000	S	2,000
Naturalized	1,000	*	*	S	*
Non-U.S. citizen	2,000	1,000	*	S	*
Permanent resident	1,000	*	*	S	*
Temporary resident	1,000	1,000	S	S	S
Political/related scientists	2,000	*	1,000	S	*
U.S. citizen	1,000	*	1,000	S	*
Native-born	1,000	*	1,000	S	*
Naturalized	*	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-social/related sciences	64,000	*	59,000	4,000	S
U.S. citizen	59,000	*	55,000	4,000	S
Native-born	53,000	*	49,000	4,000	S
Naturalized	6,000	S	6,000	*	S
Non-U.S. citizen	5,000	S	4,000	*	S
Permanent resident	3,000	S	3,000	*	S
Temporary resident	1,000	S	1,000	S	S
Psychologists	55,000	36,000	8,000	4,000	6,000
U.S. citizen	53,000	35,000	8,000	4,000	6,000
Native-born	50,000	33,000	7,000	4,000	6,000
Naturalized	3,000	2,000	1,000	*	*
Non-U.S. citizen	1,000	*	1,000	S	S
Permanent resident	1,000	*	*	S	S
Temporary resident	*	S	*	S	S
Sociologists/anthropologists	5,000	2,000	2,000	S	1,000
U.S. citizen	5,000	2,000	2,000	S	1,000
Native-born	5,000	2,000	2,000	S	1,000
Naturalized	*	S	*	S	S
Non-U.S. citizen	*	S	*	S	S
Permanent resident	*	S	S	S	S
Temporary resident	*	S	S	S	S
Other social/related scientists	6,000	3,000	1,000	S	1,000
U.S. citizen	6,000	3,000	1,000	S	1,000
Native-born	5,000	3,000	1,000	S	1,000
Naturalized	1,000	*	*	S	*
Non-U.S. citizen	1,000	*	*	S	S
Permanent resident	*	*	S	S	S
Temporary resident	*	S	S	S	S
Engineers	93,000	58,000	28,000	*	8,000
U.S. citizen	73,000	43,000	22,000	*	7,000
Native-born	47,000	27,000	15,000	*	5,000
Naturalized	26,000	16,000	7,000	*	2,000
Non-U.S. citizen	20,000	15,000	5,000	S	*
Permanent resident	13,000	10,000	3,000	S	*
Temporary resident	8,000	5,000	3,000	S	*
Aerospace/aeronautical/astronautical engineers	5,000	4,000	*	S	1,000
U.S. citizen	5,000	4,000	*	S	1,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Native-born	3,000	2,000	S	S	1,000
Naturalized	1,000	1,000	S	S	*
Non-U.S. citizen	*	*	S	S	S
Permanent resident	*	*	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	9,000	8,000	1,000	S	*
U.S. citizen	7,000	6,000	*	S	*
Native-born	4,000	4,000	*	S	*
Naturalized	3,000	3,000	S	S	S
Non-U.S. citizen	2,000	1,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	*	*	S	S
Civil/architectural/sanitary engineers	5,000	3,000	1,000	S	1,000
U.S. citizen	4,000	2,000	*	S	1,000
Native-born	2,000	2,000	*	S	*
Naturalized	2,000	1,000	S	S	*
Non-U.S. citizen	1,000	1,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	*	S	S	S
Electrical/computer hardware engineers	21,000	17,000	2,000	S	1,000
U.S. citizen	15,000	11,000	2,000	S	1,000
Native-born	9,000	6,000	1,000	S	1,000
Naturalized	6,000	5,000	1,000	S	*
Non-U.S. citizen	6,000	6,000	1,000	S	S
Permanent resident	4,000	3,000	*	S	S
Temporary resident	3,000	2,000	*	S	S
Industrial engineers	2,000	2,000	*	S	S
U.S. citizen	2,000	2,000	*	S	S
Native-born	2,000	1,000	S	S	S
Naturalized	*	*	S	S	S
Non-U.S. citizen	*	*	S	S	S
Permanent resident	*	*	S	S	S
Temporary resident	S	S	S	S	S
Mechanical engineers	10,000	8,000	1,000	S	1,000
U.S. citizen	7,000	6,000	1,000	S	1,000
Native-born	4,000	3,000	*	S	*
Naturalized	3,000	2,000	*	S	*
Non-U.S. citizen	3,000	2,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Postsecondary teachers-engineering	20,000	S	19,000	*	S
U.S. citizen	17,000	S	17,000	*	S
Native-born	11,000	S	11,000	*	S
Naturalized	6,000	S	6,000	*	S
Non-U.S. citizen	3,000	S	3,000	S	S
Permanent resident	2,000	S	2,000	S	S
Temporary resident	1,000	S	1,000	S	S
Other engineers	22,000	16,000	3,000	S	3,000
U.S. citizen	17,000	12,000	2,000	S	3,000
Native-born	12,000	8,000	2,000	S	2,000
Naturalized	5,000	4,000	*	S	1,000
Non-U.S. citizen	5,000	4,000	1,000	S	S
Permanent resident	3,000	3,000	*	S	S
Temporary resident	2,000	1,000	1,000	S	S
S&E-related occupations	105,000	46,000	38,000	13,000	9,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
U.S. citizen	92,000	39,000	33,000	12,000	8,000
Native-born	75,000	30,000	28,000	11,000	6,000
Naturalized	18,000	9,000	5,000	1,000	2,000
Non-U.S. citizen	13,000	7,000	4,000	1,000	1,000
Permanent resident	10,000	5,000	3,000	1,000	1,000
Temporary resident	3,000	2,000	2,000	S	S
Health-related occupations	57,000	21,000	32,000	1,000	4,000
U.S. citizen	51,000	18,000	29,000	1,000	3,000
Native-born	40,000	14,000	25,000	1,000	2,000
Naturalized	11,000	4,000	4,000	S	2,000
Non-U.S. citizen	6,000	3,000	2,000	S	S
Permanent resident	5,000	3,000	2,000	S	S
Temporary resident	1,000	S	*	S	S
S&E managers	26,000	18,000	4,000	*	4,000
U.S. citizen	24,000	16,000	4,000	S	4,000
Native-born	19,000	12,000	3,000	S	4,000
Naturalized	5,000	4,000	1,000	S	*
Non-U.S. citizen	2,000	2,000	*	S	S
Permanent resident	2,000	1,000	S	S	S
Temporary resident	1,000	*	S	S	S
S&E precollege teachers	12,000	S	S	12,000	S
U.S. citizen	11,000	S	S	11,000	S
Native-born	10,000	S	S	10,000	S
Naturalized	1,000	S	S	1,000	S
Non-U.S. citizen	1,000	S	S	1,000	S
Permanent resident	1,000	S	S	1,000	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	8,000	5,000	2,000	S	*
U.S. citizen	4,000	3,000	*	S	*
Native-born	3,000	2,000	*	S	*
Naturalized	1,000	1,000	S	S	*
Non-U.S. citizen	3,000	2,000	1,000	S	S
Permanent resident	2,000	1,000	*	S	S
Temporary resident	2,000	*	1,000	S	S
Other S&E-related occupations	3,000	2,000	S	S	*
U.S. citizen	2,000	2,000	S	S	*
Native-born	2,000	2,000	S	S	S
Naturalized	*	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	222,000	104,000	76,000	28,000	14,000
U.S. citizen	202,000	90,000	71,000	27,000	14,000
Native-born	171,000	71,000	63,000	25,000	12,000
Naturalized	31,000	19,000	8,000	2,000	2,000
Non-U.S. citizen	20,000	14,000	5,000	1,000	*
Permanent resident	17,000	12,000	4,000	1,000	*
Temporary resident	3,000	2,000	1,000	S	S
Art/humanities/related occupations	10,000	8,000	1,000	S	1,000
U.S. citizen	8,000	7,000	1,000	S	1,000
Native-born	8,000	6,000	1,000	S	1,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Management-related occupations	31,000	20,000	6,000	1,000	4,000
U.S. citizen	28,000	17,000	6,000	1,000	4,000
Native-born	23,000	13,000	6,000	1,000	3,000
Naturalized	5,000	4,000	*	S	1,000
Non-U.S. citizen	4,000	3,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Non-S&E managers	74,000	33,000	22,000	14,000	5,000
U.S. citizen	71,000	30,000	21,000	14,000	5,000
Native-born	62,000	23,000	20,000	14,000	4,000
Naturalized	9,000	7,000	2,000	S	*
Non-U.S. citizen	4,000	3,000	1,000	S	S
Permanent resident	3,000	2,000	1,000	S	S
Temporary resident	*	*	S	S	S
Non-S&E postsecondary teachers	46,000	*	42,000	3,000	S
U.S. citizen	41,000	*	38,000	3,000	S
Native-born	35,000	S	32,000	2,000	S
Naturalized	7,000	S	6,000	1,000	S
Non-U.S. citizen	4,000	S	4,000	S	S
Permanent resident	3,000	S	3,000	S	S
Temporary resident	1,000	S	1,000	S	S
Non-S&E precollege/other teachers	8,000	1,000	S	7,000	S
U.S. citizen	7,000	1,000	S	6,000	S
Native-born	7,000	1,000	S	6,000	S
Naturalized	*	S	S	*	S
Non-U.S. citizen	1,000	S	S	1,000	S
Permanent resident	1,000	S	S	1,000	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	18,000	17,000	*	S	S
U.S. citizen	14,000	14,000	S	S	S
Native-born	11,000	11,000	S	S	S
Naturalized	3,000	3,000	S	S	S
Non-U.S. citizen	3,000	3,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	*	*	S	S	S
Social services/related occupations	12,000	9,000	1,000	1,000	1,000
U.S. citizen	12,000	9,000	1,000	1,000	1,000
Native-born	11,000	8,000	1,000	1,000	1,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	*	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	23,000	15,000	4,000	1,000	3,000
U.S. citizen	20,000	13,000	3,000	1,000	3,000
Native-born	16,000	9,000	3,000	1,000	2,000
Naturalized	4,000	3,000	*	S	1,000

TABLE 17. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Non-U.S. citizen	3,000	3,000	S	S	S
Permanent resident	3,000	2,000	S	S	S
Temporary resident	*	*	S	S	S

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Business/industry includes self-employed individuals, nonprofit organizations, and other unspecified. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Government includes federal, state, and local employers. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity: Research and development	Teaching	Management, sales, administration	Computer applications	Other
All degree levels and occupations[a]	18,021,000	4,910,000	3,072,000	10,680,000	2,912,000	7,006,000
<30	2,152,000	760,000	380,000	1,110,000	405,000	769,000
30–39	5,004,000	1,460,000	791,000	2,946,000	953,000	1,843,000
40–49	5,316,000	1,410,000	865,000	3,265,000	883,000	2,067,000
50–59	4,177,000	948,000	773,000	2,582,000	520,000	1,738,000
60+	1,372,000	333,000	263,000	777,000	152,000	589,000
S&E occupations	4,817,000	2,689,000	437,000	2,312,000	1,703,000	900,000
<30	681,000	457,000	59,000	244,000	253,000	111,000
30–39	1,503,000	848,000	96,000	733,000	611,000	241,000
40–49	1,453,000	781,000	112,000	750,000	527,000	266,000
50–59	880,000	439,000	106,000	457,000	258,000	206,000
60+	300,000	164,000	62,000	129,000	54,000	77,000
Scientists	3,262,000	1,664,000	389,000	1,428,000	1,450,000	599,000
<30	477,000	302,000	55,000	159,000	204,000	75,000
30–39	1,053,000	553,000	85,000	469,000	531,000	163,000
40–49	969,000	473,000	97,000	461,000	458,000	170,000
50–59	583,000	252,000	96,000	277,000	217,000	138,000
60+	180,000	84,000	55,000	61,000	41,000	53,000
Biological/agricultural/other life scientists	444,000	328,000	66,000	176,000	26,000	92,000
<30	84,000	70,000	11,000	19,000	7,000	14,000
30–39	116,000	92,000	12,000	44,000	7,000	22,000
40–49	130,000	98,000	19,000	59,000	7,000	26,000
50–59	85,000	51,000	16,000	42,000	4,000	21,000
60+	29,000	17,000	9,000	11,000	1,000	8,000
Agricultural/food scientists	48,000	35,000	3,000	22,000	2,000	11,000
<30	7,000	5,000	S	3,000	S	1,000
30–39	9,000	8,000	1,000	4,000	1,000	2,000
40–49	17,000	13,000	1,000	9,000	*	3,000
50–59	12,000	6,000	S	5,000	1,000	4,000
60+	3,000	2,000	S	2,000	S	1,000
Biological/medical scientists	298,000	248,000	12,000	113,000	16,000	62,000
<30	65,000	59,000	4,000	12,000	5,000	11,000
30–39	90,000	77,000	2,000	35,000	5,000	18,000
40–49	82,000	67,000	2,000	37,000	4,000	18,000
50–59	45,000	34,000	1,000	24,000	2,000	11,000
60+	16,000	12,000	2,000	6,000	1,000	5,000
Environmental life scientists	39,000	13,000	1,000	27,000	6,000	14,000
<30	5,000	2,000	S	3,000	1,000	1,000
30–39	6,000	2,000	S	3,000	S	2,000
40–49	14,000	6,000	S	9,000	2,000	4,000
50–59	13,000	3,000	S	10,000	2,000	5,000
60+	2,000	*	S	2,000	S	S
Postsecondary teachers-life/related sciences	57,000	32,000	51,000	14,000	1,000	5,000
<30	8,000	5,000	7,000	2,000	S	S
30–39	10,000	6,000	8,000	2,000	S	1,000
40–49	17,000	11,000	15,000	4,000	*	1,000
50–59	15,000	8,000	13,000	3,000	S	1,000
60+	7,000	3,000	7,000	2,000	S	1,000
Computer/mathematical scientists	2,008,000	896,000	144,000	921,000	1,363,000	198,000
<30	267,000	144,000	20,000	97,000	187,000	23,000
30–39	740,000	346,000	34,000	344,000	509,000	72,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity: Research and development	Teaching	Management, sales, administration	Computer applications	Other
40–49	622,000	262,000	35,000	303,000	433,000	58,000
50–59	313,000	117,000	37,000	152,000	198,000	38,000
60+	67,000	27,000	17,000	25,000	35,000	7,000
Computer/information scientists	1,849,000	817,000	53,000	882,000	1,316,000	179,000
<30	248,000	133,000	10,000	94,000	180,000	20,000
30–39	698,000	321,000	13,000	334,000	497,000	69,000
40–49	580,000	245,000	15,000	290,000	418,000	51,000
50–59	274,000	99,000	12,000	141,000	188,000	33,000
60+	48,000	20,000	3,000	22,000	32,000	5,000
Mathematical scientists	67,000	44,000	3,000	27,000	29,000	12,000
<30	9,000	6,000	S	2,000	6,000	2,000
30–39	20,000	16,000	*	7,000	9,000	2,000
40–49	20,000	9,000	*	9,000	9,000	6,000
50–59	15,000	11,000	2,000	7,000	5,000	2,000
60+	4,000	3,000	S	1,000	2,000	1,000
Postsecondary teachers-computer/ mathematical sciences	92,000	34,000	88,000	12,000	18,000	7,000
<30	10,000	5,000	10,000	1,000	1,000	1,000
30–39	22,000	9,000	21,000	2,000	4,000	1,000
40–49	22,000	9,000	21,000	3,000	6,000	1,000
50–59	24,000	7,000	23,000	4,000	5,000	3,000
60+	14,000	4,000	14,000	2,000	2,000	2,000
Physical/related scientists	315,000	218,000	53,000	118,000	35,000	79,000
<30	48,000	36,000	9,000	13,000	5,000	13,000
30–39	81,000	58,000	12,000	31,000	8,000	18,000
40–49	96,000	65,000	13,000	40,000	11,000	25,000
50–59	63,000	41,000	10,000	27,000	8,000	15,000
60+	28,000	17,000	8,000	7,000	3,000	8,000
Chemists, except biochemists	124,000	90,000	1,000	55,000	8,000	36,000
<30	24,000	19,000	S	8,000	2,000	7,000
30–39	35,000	25,000	*	15,000	2,000	10,000
40–49	35,000	25,000	*	18,000	2,000	11,000
50–59	22,000	16,000	*	13,000	1,000	6,000
60+	8,000	6,000	*	2,000	*	3,000
Earth/atmospheric/ocean scientists	71,000	52,000	1,000	26,000	15,000	19,000
<30	6,000	5,000	S	2,000	1,000	2,000
30–39	14,000	9,000	1,000	6,000	4,000	4,000
40–49	29,000	23,000	S	10,000	6,000	6,000
50–59	17,000	11,000	S	7,000	4,000	5,000
60+	5,000	4,000	*	1,000	1,000	2,000
Physicists/astronomers	31,000	25,000	1,000	8,000	7,000	4,000
<30	4,000	3,000	S	*	1,000	1,000
30–39	9,000	8,000	*	2,000	2,000	1,000
40–49	7,000	6,000	*	3,000	1,000	1,000
50–59	7,000	5,000	S	2,000	2,000	1,000
60+	4,000	3,000	*	1,000	1,000	1,000
Postsecondary teachers-physical/ related sciences	52,000	29,000	49,000	9,000	2,000	5,000
<30	9,000	5,000	9,000	1,000	*	2,000
30–39	11,000	7,000	10,000	3,000	*	*
40–49	13,000	8,000	12,000	2,000	*	2,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	10,000	5,000	9,000	2,000	*	*
60+	9,000	4,000	8,000	2,000	1,000	1,000
Other physical/related scientists	37,000	22,000	1,000	18,000	3,000	14,000
<30	5,000	3,000	S	2,000	1,000	3,000
30–39	12,000	10,000	1,000	5,000	1,000	3,000
40–49	12,000	4,000	S	7,000	S	5,000
50–59	7,000	5,000	S	3,000	S	3,000
60+	2,000	1,000	S	S	S	1,000
Social/related scientists	495,000	222,000	126,000	214,000	25,000	230,000
<30	76,000	52,000	14,000	30,000	5,000	25,000
30–39	117,000	58,000	27,000	51,000	6,000	51,000
40–49	122,000	48,000	30,000	60,000	7,000	60,000
50–59	123,000	42,000	33,000	55,000	6,000	64,000
60+	57,000	23,000	21,000	17,000	2,000	30,000
Economists	35,000	23,000	2,000	17,000	3,000	10,000
<30	6,000	5,000	S	2,000	1,000	2,000
30–39	10,000	7,000	*	6,000	1,000	2,000
40–49	7,000	5,000	S	3,000	1,000	2,000
50–59	9,000	6,000	1,000	5,000	S	3,000
60+	3,000	1,000	S	1,000	S	1,000
Political/related scientists	14,000	8,000	*	8,000	S	5,000
<30	6,000	5,000	S	2,000	S	2,000
30–39	4,000	2,000	S	2,000	S	2,000
40–49	2,000	1,000	S	1,000	S	S
50–59	2,000	*	S	2,000	S	1,000
60+	1,000	*	S	*	S	*
Postsecondary teachers-social/related sciences	106,000	60,000	100,000	18,000	3,000	14,000
<30	11,000	6,000	10,000	2,000	S	1,000
30–39	21,000	14,000	21,000	3,000	S	2,000
40–49	26,000	14,000	25,000	5,000	1,000	4,000
50–59	28,000	15,000	26,000	5,000	1,000	4,000
60+	19,000	11,000	18,000	3,000	*	3,000
Psychologists	181,000	47,000	20,000	68,000	5,000	150,000
<30	22,000	15,000	4,000	4,000	S	11,000
30–39	39,000	12,000	6,000	13,000	2,000	32,000
40–49	43,000	9,000	4,000	20,000	1,000	38,000
50–59	53,000	8,000	5,000	24,000	2,000	47,000
60+	23,000	3,000	2,000	7,000	*	22,000
Sociologists/anthropologists	22,000	18,000	1,000	10,000	2,000	5,000
<30	3,000	3,000	S	1,000	S	S
30–39	5,000	5,000	S	3,000	S	*
40–49	7,000	5,000	*	5,000	S	3,000
50–59	3,000	3,000	S	2,000	S	*
60+	3,000	3,000	S	*	S	1,000
Other social/related scientists	138,000	66,000	2,000	92,000	12,000	46,000
<30	28,000	19,000	S	19,000	1,000	9,000
30–39	38,000	19,000	*	24,000	3,000	13,000
40–49	36,000	14,000	S	26,000	4,000	14,000
50–59	27,000	11,000	1,000	17,000	3,000	8,000
60+	8,000	4,000	S	5,000	S	2,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Engineers	1,555,000	1,024,000	48,000	885,000	253,000	301,000
<30	205,000	154,000	5,000	85,000	49,000	36,000
30–39	449,000	295,000	11,000	263,000	80,000	77,000
40–49	484,000	308,000	15,000	289,000	70,000	96,000
50–59	297,000	188,000	10,000	180,000	42,000	68,000
60+	120,000	80,000	7,000	68,000	13,000	24,000
Aerospace/aeronautical/astronautical engineers	95,000	72,000	2,000	47,000	19,000	14,000
<30	9,000	8,000	S	2,000	4,000	1,000
30–39	18,000	15,000	S	8,000	3,000	3,000
40–49	37,000	24,000	S	21,000	6,000	6,000
50–59	20,000	15,000	S	10,000	5,000	3,000
60+	11,000	10,000	S	6,000	1,000	1,000
Chemical engineers	75,000	54,000	1,000	37,000	9,000	21,000
<30	15,000	10,000	S	7,000	2,000	5,000
30–39	21,000	16,000	S	11,000	3,000	4,000
40–49	20,000	13,000	S	9,000	3,000	7,000
50–59	15,000	12,000	S	8,000	2,000	4,000
60+	4,000	3,000	S	2,000	S	1,000
Civil/architectural/sanitary engineers	247,000	127,000	2,000	179,000	37,000	54,000
<30	35,000	23,000	S	19,000	8,000	6,000
30–39	69,000	35,000	S	53,000	11,000	13,000
40–49	71,000	35,000	1,000	52,000	10,000	15,000
50–59	49,000	23,000	S	37,000	6,000	13,000
60+	24,000	11,000	S	17,000	2,000	9,000
Electrical/computer hardware engineers	367,000	282,000	3,000	159,000	101,000	49,000
<30	48,000	40,000	S	13,000	19,000	5,000
30–39	110,000	83,000	*	46,000	35,000	13,000
40–49	119,000	91,000	2,000	56,000	29,000	16,000
50–59	67,000	51,000	1,000	33,000	15,000	11,000
60+	23,000	17,000	S	12,000	4,000	3,000
Industrial engineers	86,000	49,000	1,000	58,000	10,000	24,000
<30	10,000	7,000	S	6,000	2,000	3,000
30–39	32,000	20,000	S	21,000	3,000	6,000
40–49	24,000	13,000	S	16,000	2,000	9,000
50–59	16,000	7,000	S	13,000	2,000	4,000
60+	4,000	2,000	S	3,000	S	2,000
Mechanical engineers	272,000	216,000	2,000	142,000	30,000	44,000
<30	39,000	32,000	S	14,000	7,000	7,000
30–39	85,000	69,000	S	45,000	9,000	12,000
40–49	81,000	62,000	1,000	45,000	8,000	13,000
50–59	46,000	35,000	1,000	28,000	4,000	9,000
60+	22,000	18,000	*	11,000	2,000	3,000
Postsecondary teachers-engineering	33,000	21,000	30,000	6,000	2,000	2,000
<30	5,000	3,000	4,000	1,000	S	1,000
30–39	7,000	5,000	6,000	1,000	*	S
40–49	9,000	6,000	8,000	2,000	1,000	*
50–59	7,000	5,000	7,000	1,000	*	*
60+	6,000	3,000	5,000	1,000	1,000	*
Other engineers	380,000	204,000	7,000	256,000	46,000	95,000
<30	44,000	31,000	S	23,000	7,000	9,000
30–39	108,000	53,000	3,000	79,000	16,000	26,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40–49	123,000	64,000	2,000	88,000	11,000	30,000
50–59	77,000	41,000	1,000	51,000	8,000	23,000
60+	27,000	15,000	1,000	16,000	3,000	6,000
S&E-related occupations	5,331,000	1,046,000	1,496,000	2,451,000	591,000	3,316,000
<30	564,000	149,000	182,000	204,000	68,000	341,000
30–39	1,461,000	308,000	413,000	669,000	180,000	901,000
40–49	1,677,000	297,000	425,000	834,000	180,000	1,076,000
50–59	1,252,000	223,000	372,000	589,000	128,000	753,000
60+	377,000	69,000	105,000	155,000	35,000	244,000
Health-related occupations	3,515,000	485,000	781,000	1,499,000	154,000	2,980,000
<30	374,000	68,000	93,000	131,000	17,000	317,000
30–39	956,000	138,000	214,000	401,000	41,000	813,000
40–49	1,132,000	143,000	250,000	510,000	46,000	964,000
50–59	797,000	103,000	169,000	359,000	37,000	666,000
60+	257,000	33,000	54,000	97,000	12,000	221,000
S&E managers	386,000	84,000	5,000	374,000	69,000	73,000
<30	9,000	2,000	S	9,000	2,000	S
30–39	95,000	27,000	2,000	89,000	23,000	17,000
40–49	151,000	30,000	1,000	148,000	28,000	31,000
50–59	106,000	21,000	S	104,000	11,000	20,000
60+	25,000	4,000	S	25,000	4,000	5,000
S&E precollege teachers	716,000	124,000	698,000	242,000	73,000	63,000
<30	88,000	22,000	87,000	29,000	6,000	4,000
30–39	195,000	33,000	194,000	80,000	14,000	15,000
40–49	177,000	30,000	170,000	63,000	19,000	17,000
50–59	204,000	31,000	198,000	58,000	26,000	20,000
60+	52,000	8,000	49,000	11,000	8,000	6,000
S&E technicians/technologists	500,000	226,000	11,000	197,000	265,000	131,000
<30	76,000	45,000	2,000	26,000	36,000	16,000
30–39	144,000	67,000	2,000	54,000	89,000	36,000
40–49	158,000	62,000	3,000	71,000	82,000	42,000
50–59	101,000	42,000	3,000	38,000	49,000	33,000
60+	21,000	10,000	S	8,000	9,000	5,000
Other S&E-related occupations	214,000	127,000	S	140,000	30,000	69,000
<30	18,000	12,000	S	8,000	6,000	4,000
30–39	70,000	42,000	S	45,000	13,000	21,000
40–49	59,000	32,000	S	42,000	5,000	22,000
50–59	44,000	27,000	S	30,000	4,000	15,000
60+	23,000	14,000	S	14,000	2,000	7,000
Non-S&E occupations	7,873,000	1,175,000	1,140,000	5,916,000	618,000	2,790,000
<30	906,000	154,000	139,000	662,000	84,000	316,000
30–39	2,041,000	304,000	282,000	1,545,000	162,000	701,000
40–49	2,185,000	332,000	328,000	1,681,000	175,000	726,000
50–59	2,046,000	285,000	295,000	1,537,000	134,000	779,000
60+	695,000	101,000	96,000	492,000	64,000	268,000
Art/humanities/related occupations	248,000	89,000	14,000	161,000	38,000	100,000
<30	28,000	8,000	5,000	21,000	6,000	8,000
30–39	76,000	28,000	*	54,000	16,000	22,000
40–49	64,000	24,000	4,000	42,000	6,000	26,000
50–59	58,000	23,000	3,000	32,000	7,000	33,000
60+	22,000	6,000	2,000	13,000	3,000	10,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Management-related occupations	1,310,000	212,000	45,000	1,176,000	137,000	329,000
<30	133,000	29,000	1,000	123,000	14,000	26,000
30–39	357,000	53,000	10,000	323,000	28,000	86,000
40–49	385,000	55,000	15,000	351,000	48,000	87,000
50–59	331,000	55,000	13,000	292,000	34,000	97,000
60+	104,000	19,000	5,000	87,000	14,000	33,000
Non-S&E managers	922,000	142,000	24,000	890,000	46,000	144,000
<30	17,000	2,000	S	17,000	S	1,000
30–39	186,000	25,000	4,000	179,000	11,000	27,000
40–49	331,000	55,000	7,000	320,000	19,000	49,000
50–59	304,000	39,000	11,000	295,000	10,000	56,000
60+	84,000	20,000	2,000	79,000	5,000	11,000
Non-S&E postsecondary teachers	140,000	51,000	122,000	44,000	9,000	24,000
<30	14,000	6,000	12,000	3,000	2,000	2,000
30–39	24,000	11,000	19,000	7,000	1,000	5,000
40–49	38,000	14,000	35,000	13,000	2,000	6,000
50–59	43,000	14,000	38,000	15,000	4,000	6,000
60+	21,000	6,000	18,000	7,000	1,000	4,000
Non-S&E precollege/other teachers	600,000	83,000	569,000	201,000	29,000	77,000
<30	73,000	15,000	69,000	29,000	S	8,000
30–39	158,000	21,000	154,000	49,000	7,000	19,000
40–49	167,000	24,000	163,000	59,000	10,000	21,000
50–59	160,000	18,000	149,000	51,000	8,000	22,000
60+	42,000	4,000	35,000	13,000	3,000	7,000
Sales/marketing occupations	1,322,000	176,000	29,000	1,271,000	85,000	208,000
<30	157,000	22,000	2,000	151,000	12,000	21,000
30–39	387,000	58,000	9,000	377,000	20,000	44,000
40–49	323,000	45,000	7,000	309,000	20,000	51,000
50–59	319,000	36,000	5,000	308,000	16,000	63,000
60+	137,000	16,000	6,000	127,000	16,000	29,000
Social services/related occupations	621,000	59,000	158,000	289,000	40,000	505,000
<30	106,000	11,000	24,000	53,000	7,000	85,000
30–39	166,000	16,000	42,000	74,000	16,000	135,000
40–49	147,000	17,000	42,000	66,000	8,000	113,000
50–59	155,000	9,000	37,000	79,000	8,000	129,000
60+	48,000	6,000	12,000	16,000	S	42,000
Other non-S&E occupations	2,711,000	364,000	180,000	1,884,000	234,000	1,402,000
<30	378,000	61,000	24,000	265,000	42,000	163,000
30–39	687,000	91,000	46,000	483,000	63,000	363,000
40–49	731,000	97,000	54,000	521,000	63,000	372,000
50–59	677,000	90,000	39,000	465,000	46,000	373,000
60+	238,000	25,000	17,000	151,000	20,000	131,000
Bachelor's degrees, all occupations	10,490,000	2,722,000	1,398,000	6,573,000	1,991,000	3,674,000
<30	1,633,000	551,000	254,000	906,000	329,000	526,000
30–39	3,064,000	817,000	394,000	1,913,000	655,000	1,024,000
40–49	3,071,000	751,000	393,000	1,984,000	606,000	1,084,000
50–59	2,135,000	464,000	282,000	1,400,000	322,000	823,000
60+	587,000	138,000	74,000	370,000	79,000	218,000
S&E occupations	2,786,000	1,471,000	117,000	1,457,000	1,142,000	495,000
<30	507,000	334,000	36,000	193,000	194,000	83,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
30–39	906,000	464,000	26,000	495,000	412,000	147,000
40–49	828,000	407,000	30,000	461,000	357,000	144,000
50–59	432,000	204,000	17,000	248,000	154,000	95,000
60+	113,000	62,000	8,000	59,000	24,000	26,000
Scientists	1,777,000	841,000	99,000	847,000	975,000	284,000
<30	351,000	220,000	33,000	124,000	157,000	55,000
30–39	611,000	285,000	22,000	304,000	361,000	90,000
40–49	515,000	217,000	24,000	267,000	310,000	79,000
50–59	251,000	97,000	14,000	133,000	129,000	49,000
60+	48,000	21,000	6,000	20,000	19,000	11,000
Biological/agricultural/other life scientists	182,000	117,000	14,000	79,000	14,000	53,000
<30	64,000	53,000	7,000	15,000	5,000	12,000
30–39	39,000	26,000	2,000	17,000	3,000	12,000
40–49	46,000	25,000	3,000	26,000	4,000	15,000
50–59	28,000	11,000	S	19,000	2,000	11,000
60+	5,000	2,000	S	3,000	S	2,000
Agricultural/food scientists	26,000	16,000	2,000	12,000	1,000	7,000
<30	5,000	4,000	S	2,000	S	1,000
30–39	5,000	4,000	S	2,000	S	S
40–49	8,000	5,000	S	4,000	S	2,000
50–59	6,000	3,000	S	3,000	S	3,000
60+	2,000	S	S	1,000	S	S
Biological/medical scientists	118,000	89,000	5,000	44,000	8,000	34,000
<30	50,000	45,000	3,000	10,000	4,000	10,000
30–39	28,000	21,000	S	12,000	2,000	9,000
40–49	25,000	15,000	S	13,000	1,000	9,000
50–59	13,000	8,000	S	9,000	1,000	5,000
60+	2,000	1,000	S	S	S	1,000
Environmental life scientists	29,000	7,000	S	20,000	5,000	11,000
<30	4,000	1,000	S	2,000	S	1,000
30–39	4,000	1,000	S	2,000	S	2,000
40–49	11,000	4,000	S	8,000	2,000	4,000
50–59	9,000	1,000	S	7,000	1,000	3,000
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	9,000	5,000	7,000	3,000	S	S
<30	5,000	3,000	4,000	S	S	S
30–39	1,000	S	S	S	S	S
40–49	2,000	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Computer/mathematical scientists	1,332,000	569,000	60,000	644,000	935,000	140,000
<30	207,000	110,000	14,000	77,000	145,000	20,000
30–39	509,000	222,000	16,000	257,000	353,000	55,000
40–49	409,000	161,000	17,000	208,000	299,000	39,000
50–59	177,000	63,000	10,000	89,000	120,000	22,000
60+	30,000	12,000	4,000	13,000	18,000	4,000
Computer/information scientists	1,282,000	547,000	40,000	628,000	912,000	132,000
<30	195,000	105,000	9,000	75,000	140,000	18,000
30–39	499,000	216,000	12,000	253,000	348,000	54,000
40–49	394,000	157,000	12,000	204,000	289,000	35,000
50–59	167,000	58,000	6,000	85,000	118,000	21,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity: Research and development	Teaching	Management, sales, administration	Computer applications	Other
60+	27,000	10,000	2,000	12,000	17,000	3,000
Mathematical scientists	29,000	16,000	1,000	14,000	13,000	7,000
<30	6,000	4,000	S	2,000	4,000	S
30–39	6,000	5,000	S	4,000	2,000	S
40–49	9,000	2,000	S	4,000	6,000	4,000
50–59	6,000	5,000	S	4,000	1,000	1,000
60+	1,000	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	21,000	6,000	19,000	2,000	9,000	1,000
<30	6,000	2,000	5,000	1,000	1,000	1,000
30–39	4,000	1,000	4,000	S	2,000	S
40–49	6,000	2,000	5,000	S	4,000	S
50–59	4,000	1,000	4,000	S	2,000	S
60+	2,000	S	2,000	S	S	S
Physical/related scientists	139,000	89,000	11,000	57,000	15,000	50,000
<30	38,000	27,000	6,000	12,000	3,000	12,000
30–39	32,000	21,000	2,000	12,000	3,000	12,000
40–49	40,000	24,000	S	20,000	4,000	16,000
50–59	24,000	14,000	1,000	12,000	3,000	8,000
60+	5,000	4,000	S	1,000	1,000	2,000
Chemists, except biochemists	69,000	45,000	1,000	32,000	6,000	27,000
<30	21,000	16,000	S	8,000	2,000	6,000
30–39	17,000	10,000	S	7,000	1,000	7,000
40–49	18,000	11,000	S	10,000	2,000	8,000
50–59	11,000	6,000	S	7,000	S	4,000
60+	3,000	2,000	S	1,000	S	1,000
Earth/atmospheric/ocean scientists	33,000	23,000	1,000	13,000	7,000	10,000
<30	5,000	4,000	S	1,000	1,000	1,000
30–39	6,000	3,000	S	3,000	1,000	3,000
40–49	13,000	11,000	S	5,000	2,000	3,000
50–59	8,000	5,000	S	3,000	2,000	3,000
60+	2,000	1,000	S	S	S	S
Physicists/astronomers	5,000	4,000	S	1,000	1,000	1,000
<30	2,000	2,000	S	S	1,000	*
30–39	1,000	1,000	S	S	S	S
40–49	1,000	*	S	S	S	S
50–59	1,000	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	10,000	5,000	9,000	1,000	S	2,000
<30	6,000	3,000	6,000	1,000	S	1,000
30–39	1,000	1,000	1,000	S	S	S
40–49	S	S	S	S	S	S
50–59	1,000	S	1,000	S	S	S
60+	S	S	S	S	S	S
Other physical/related scientists	22,000	12,000	S	10,000	1,000	10,000
<30	4,000	2,000	S	2,000	S	3,000
30–39	7,000	6,000	S	2,000	S	2,000
40–49	7,000	2,000	S	4,000	S	3,000
50–59	4,000	2,000	S	2,000	S	1,000
60+	S	S	S	S	S	S

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Social/related scientists	123,000	66,000	13,000	67,000	12,000	41,000
<30	43,000	30,000	6,000	20,000	4,000	10,000
30–39	31,000	16,000	2,000	19,000	S	11,000
40–49	20,000	7,000	3,000	13,000	3,000	9,000
50–59	21,000	9,000	1,000	13,000	3,000	8,000
60+	8,000	4,000	S	3,000	S	3,000
Economists	9,000	5,000	S	4,000	1,000	4,000
<30	3,000	2,000	S	1,000	1,000	1,000
30–39	1,000	S	S	S	S	S
40–49	1,000	S	S	S	S	S
50–59	4,000	S	S	2,000	S	S
60+	S	S	S	S	S	S
Political/related scientists	9,000	5,000	S	4,000	S	3,000
<30	5,000	4,000	S	2,000	S	1,000
30–39	2,000	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	9,000	4,000	9,000	2,000	S	2,000
<30	5,000	2,000	4,000	S	S	S
30–39	1,000	S	1,000	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Psychologists	14,000	8,000	2,000	3,000	S	5,000
<30	8,000	7,000	1,000	2,000	S	2,000
30–39	2,000	S	S	S	S	1,000
40–49	1,000	S	S	S	S	1,000
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Sociologists/anthropologists	9,000	7,000	S	4,000	S	2,000
<30	3,000	3,000	S	S	S	S
30–39	1,000	1,000	S	S	S	S
40–49	3,000	S	S	3,000	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other social/related scientists	74,000	37,000	S	50,000	8,000	25,000
<30	19,000	13,000	S	14,000	S	5,000
30–39	23,000	12,000	S	15,000	S	9,000
40–49	14,000	5,000	S	9,000	S	6,000
50–59	14,000	6,000	S	9,000	2,000	4,000
60+	4,000	S	S	3,000	S	S
Engineers	1,010,000	630,000	18,000	609,000	167,000	211,000
<30	156,000	114,000	3,000	70,000	38,000	29,000
30–39	295,000	179,000	4,000	191,000	50,000	57,000
40–49	313,000	190,000	6,000	194,000	48,000	65,000
50–59	181,000	107,000	4,000	115,000	25,000	46,000
60+	64,000	40,000	1,000	39,000	5,000	15,000
Aerospace/aeronautical/astronautical engineers	53,000	40,000	S	27,000	11,000	8,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	6,000	5,000	S	1,000	3,000	1,000
30–39	10,000	8,000	S	5,000	2,000	2,000
40–49	22,000	16,000	S	13,000	4,000	3,000
50–59	11,000	8,000	S	6,000	3,000	2,000
60+	4,000	3,000	S	2,000	S	S
Chemical engineers	45,000	30,000	S	25,000	6,000	13,000
<30	12,000	8,000	S	6,000	2,000	4,000
30–39	13,000	9,000	S	8,000	2,000	2,000
40–49	11,000	7,000	S	6,000	2,000	4,000
50–59	8,000	6,000	S	5,000	1,000	2,000
60+	1,000	1,000	S	1,000	S	S
Civil/architectural/sanitary engineers	174,000	84,000	2,000	130,000	25,000	35,000
<30	26,000	16,000	S	16,000	6,000	4,000
30–39	49,000	23,000	S	40,000	6,000	8,000
40–49	50,000	24,000	S	37,000	8,000	10,000
50–59	33,000	14,000	S	26,000	4,000	8,000
60+	16,000	6,000	S	12,000	1,000	6,000
Electrical/computer hardware engineers	229,000	171,000	2,000	101,000	66,000	36,000
<30	34,000	28,000	S	10,000	14,000	4,000
30–39	67,000	49,000	S	30,000	22,000	9,000
40–49	79,000	59,000	S	36,000	20,000	13,000
50–59	39,000	28,000	S	19,000	8,000	9,000
60+	11,000	7,000	S	6,000	2,000	1,000
Industrial engineers	60,000	31,000	1,000	44,000	6,000	19,000
<30	8,000	5,000	S	4,000	1,000	2,000
30–39	21,000	12,000	S	15,000	2,000	5,000
40–49	17,000	8,000	S	13,000	1,000	7,000
50–59	12,000	5,000	S	10,000	2,000	4,000
60+	2,000	1,000	S	2,000	S	1,000
Mechanical engineers	188,000	147,000	1,000	101,000	19,000	34,000
<30	31,000	25,000	S	12,000	5,000	6,000
30–39	62,000	48,000	S	35,000	5,000	11,000
40–49	51,000	39,000	S	28,000	5,000	9,000
50–59	30,000	22,000	S	17,000	3,000	6,000
60+	15,000	13,000	S	8,000	1,000	3,000
Postsecondary teachers-engineering	5,000	3,000	4,000	1,000	S	1,000
<30	3,000	2,000	2,000	S	S	1,000
30–39	S	S	S	S	S	S
40–49	1,000	S	1,000	S	S	S
50–59	1,000	S	S	S	S	S
60+	S	S	S	S	S	S
Other engineers	255,000	124,000	6,000	181,000	32,000	65,000
<30	36,000	25,000	S	20,000	6,000	7,000
30–39	74,000	30,000	2,000	58,000	11,000	21,000
40–49	82,000	38,000	2,000	61,000	8,000	19,000
50–59	48,000	23,000	1,000	33,000	5,000	15,000
60+	15,000	9,000	S	8,000	1,000	3,000
S&E-related occupations	2,956,000	603,000	740,000	1,388,000	420,000	1,737,000
<30	391,000	106,000	114,000	149,000	58,000	218,000
30–39	856,000	183,000	222,000	393,000	128,000	502,000
40–49	940,000	166,000	215,000	483,000	128,000	571,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	611,000	114,000	152,000	292,000	84,000	357,000
60+	158,000	35,000	37,000	72,000	22,000	89,000
Health-related occupations	1,829,000	231,000	381,000	805,000	113,000	1,501,000
<30	241,000	39,000	54,000	92,000	16,000	198,000
30–39	524,000	68,000	113,000	220,000	30,000	432,000
40–49	595,000	66,000	125,000	282,000	31,000	494,000
50–59	374,000	44,000	74,000	170,000	29,000	302,000
60+	95,000	13,000	16,000	41,000	7,000	76,000
S&E managers	219,000	42,000	3,000	212,000	42,000	40,000
<30	8,000	1,000	S	8,000	2,000	S
30–39	60,000	17,000	S	56,000	13,000	11,000
40–49	91,000	15,000	S	89,000	19,000	18,000
50–59	47,000	6,000	S	46,000	4,000	8,000
60+	13,000	2,000	S	13,000	S	2,000
S&E precollege teachers	357,000	65,000	346,000	117,000	35,000	35,000
<30	59,000	15,000	58,000	19,000	4,000	2,000
30–39	106,000	15,000	105,000	41,000	7,000	11,000
40–49	92,000	19,000	87,000	31,000	9,000	10,000
50–59	78,000	13,000	75,000	23,000	10,000	8,000
60+	22,000	3,000	21,000	4,000	5,000	4,000
S&E technicians/technologists	401,000	175,000	10,000	159,000	208,000	114,000
<30	68,000	40,000	S	24,000	32,000	15,000
30–39	114,000	50,000	2,000	43,000	68,000	32,000
40–49	124,000	46,000	3,000	55,000	66,000	36,000
50–59	80,000	31,000	2,000	31,000	37,000	28,000
60+	15,000	8,000	S	6,000	5,000	4,000
Other S&E-related occupations	149,000	90,000	S	94,000	23,000	46,000
<30	14,000	10,000	S	6,000	5,000	3,000
30–39	52,000	33,000	S	33,000	9,000	17,000
40–49	38,000	20,000	S	25,000	4,000	13,000
50–59	32,000	19,000	S	22,000	3,000	10,000
60+	13,000	8,000	S	8,000	S	2,000
Non-S&E occupations	4,747,000	648,000	541,000	3,728,000	429,000	1,443,000
<30	735,000	112,000	104,000	563,000	76,000	225,000
30–39	1,301,000	170,000	146,000	1,024,000	116,000	375,000
40–49	1,302,000	178,000	148,000	1,040,000	121,000	369,000
50–59	1,091,000	146,000	113,000	861,000	84,000	371,000
60+	317,000	42,000	29,000	239,000	33,000	103,000
Art/humanities/related occupations	160,000	54,000	11,000	113,000	28,000	57,000
<30	26,000	7,000	5,000	20,000	6,000	7,000
30–39	52,000	19,000	S	37,000	12,000	14,000
40–49	37,000	13,000	S	29,000	3,000	14,000
50–59	35,000	13,000	S	20,000	6,000	18,000
60+	10,000	S	S	7,000	S	4,000
Management-related occupations	793,000	119,000	27,000	716,000	85,000	185,000
<30	110,000	22,000	S	102,000	12,000	22,000
30–39	226,000	30,000	8,000	206,000	17,000	48,000
40–49	236,000	30,000	10,000	218,000	30,000	51,000
50–59	174,000	27,000	6,000	154,000	20,000	52,000
60+	47,000	10,000	3,000	37,000	6,000	12,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Non-S&E managers	456,000	63,000	10,000	442,000	28,000	62,000
<30	9,000	1,000	S	9,000	S	1,000
30–39	116,000	14,000	S	110,000	7,000	15,000
40–49	175,000	27,000	4,000	172,000	13,000	20,000
50–59	121,000	11,000	4,000	119,000	4,000	22,000
60+	34,000	10,000	S	32,000	3,000	3,000
Non-S&E postsecondary teachers	26,000	7,000	19,000	10,000	2,000	3,000
<30	8,000	3,000	7,000	2,000	2,000	1,000
30–39	4,000	1,000	1,000	3,000	S	S
40–49	5,000	2,000	4,000	2,000	S	S
50–59	7,000	1,000	6,000	3,000	S	S
60+	2,000	S	1,000	S	S	S
Non-S&E precollege/other teachers	304,000	40,000	288,000	100,000	14,000	35,000
<30	56,000	9,000	52,000	23,000	S	6,000
30–39	91,000	13,000	88,000	27,000	S	9,000
40–49	80,000	12,000	78,000	23,000	6,000	12,000
50–59	63,000	5,000	60,000	19,000	4,000	8,000
60+	14,000	S	10,000	7,000	S	S
Sales/marketing occupations	980,000	118,000	21,000	946,000	63,000	145,000
<30	146,000	19,000	2,000	141,000	12,000	20,000
30–39	288,000	33,000	6,000	280,000	14,000	34,000
40–49	238,000	30,000	5,000	229,000	15,000	34,000
50–59	225,000	28,000	4,000	219,000	11,000	40,000
60+	83,000	7,000	3,000	77,000	10,000	17,000
Social services/related occupations	240,000	21,000	53,000	122,000	24,000	181,000
<30	70,000	7,000	17,000	33,000	6,000	54,000
30–39	69,000	7,000	14,000	31,000	9,000	54,000
40–49	50,000	5,000	9,000	28,000	5,000	34,000
50–59	41,000	S	10,000	27,000	4,000	30,000
60+	10,000	S	4,000	3,000	S	9,000
Other non-S&E occupations	1,789,000	226,000	111,000	1,280,000	185,000	776,000
<30	311,000	42,000	21,000	234,000	38,000	114,000
30–39	456,000	54,000	28,000	330,000	53,000	201,000
40–49	481,000	60,000	34,000	341,000	49,000	204,000
50–59	424,000	59,000	22,000	300,000	35,000	200,000
60+	116,000	10,000	7,000	75,000	11,000	56,000
Master's degrees, all occupations	4,979,000	1,421,000	1,168,000	2,879,000	805,000	1,673,000
<30	386,000	163,000	100,000	165,000	72,000	133,000
30–39	1,303,000	429,000	284,000	728,000	266,000	401,000
40–49	1,471,000	428,000	324,000	888,000	239,000	483,000
50–59	1,370,000	298,000	354,000	835,000	172,000	488,000
60+	449,000	102,000	107,000	263,000	57,000	168,000
S&E occupations	1,424,000	783,000	130,000	669,000	491,000	287,000
<30	158,000	108,000	19,000	48,000	57,000	27,000
30–39	437,000	252,000	31,000	193,000	180,000	75,000
40–49	435,000	236,000	26,000	226,000	147,000	86,000
50–59	296,000	139,000	37,000	157,000	86,000	72,000
60+	98,000	49,000	18,000	45,000	22,000	27,000
Scientists	974,000	470,000	120,000	421,000	417,000	207,000
<30	112,000	69,000	17,000	34,000	46,000	20,000
30–39	310,000	161,000	28,000	128,000	154,000	56,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40–49	295,000	144,000	23,000	140,000	129,000	59,000
50–59	199,000	74,000	35,000	98,000	73,000	52,000
60+	58,000	22,000	16,000	20,000	16,000	21,000
Biological/agricultural/other life scientists	98,000	69,000	15,000	40,000	7,000	20,000
<30	14,000	11,000	3,000	3,000	2,000	1,000
30–39	29,000	21,000	3,000	11,000	2,000	7,000
40–49	28,000	22,000	3,000	13,000	2,000	4,000
50–59	22,000	12,000	5,000	11,000	1,000	5,000
60+	5,000	1,000	1,000	2,000	S	2,000
Agricultural/food scientists	13,000	10,000	S	6,000	1,000	2,000
<30	2,000	1,000	S	1,000	S	S
30–39	3,000	3,000	S	S	S	S
40–49	5,000	5,000	S	3,000	S	S
50–59	3,000	2,000	S	1,000	S	1,000
60+	S	S	S	S	S	S
Biological/medical scientists	63,000	50,000	2,000	25,000	4,000	13,000
<30	9,000	8,000	S	1,000	1,000	1,000
30–39	22,000	17,000	S	8,000	1,000	6,000
40–49	19,000	16,000	S	9,000	1,000	4,000
50–59	11,000	8,000	S	6,000	S	2,000
60+	3,000	1,000	S	S	S	S
Environmental life scientists	9,000	4,000	S	6,000	1,000	3,000
<30	1,000	*	S	*	S	S
30–39	1,000	1,000	S	1,000	S	S
40–49	2,000	1,000	S	1,000	S	S
50–59	4,000	2,000	S	3,000	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	13,000	4,000	12,000	3,000	S	2,000
<30	3,000	1,000	2,000	S	S	S
30–39	3,000	1,000	3,000	*	S	1,000
40–49	3,000	1,000	2,000	1,000	S	S
50–59	4,000	S	4,000	1,000	S	S
60+	1,000	S	1,000	S	S	S
Computer/mathematical scientists	578,000	266,000	50,000	252,000	387,000	49,000
<30	57,000	30,000	4,000	20,000	41,000	3,000
30–39	204,000	104,000	11,000	82,000	146,000	16,000
40–49	181,000	82,000	9,000	85,000	120,000	15,000
50–59	111,000	40,000	18,000	56,000	67,000	13,000
60+	26,000	10,000	7,000	10,000	14,000	2,000
Computer/information scientists	515,000	241,000	12,000	237,000	371,000	41,000
<30	52,000	28,000	S	19,000	39,000	2,000
30–39	184,000	93,000	1,000	77,000	139,000	14,000
40–49	166,000	77,000	2,000	79,000	117,000	14,000
50–59	95,000	35,000	6,000	52,000	62,000	10,000
60+	18,000	8,000	1,000	9,000	13,000	S
Mathematical scientists	25,000	18,000	2,000	9,000	10,000	4,000
<30	3,000	2,000	S	1,000	1,000	S
30–39	10,000	8,000	S	3,000	5,000	1,000
40–49	7,000	4,000	S	4,000	1,000	2,000
50–59	5,000	3,000	S	2,000	1,000	S
60+	1,000	1,000	S	S	S	S

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Postsecondary teachers-computer/ mathematical sciences	38,000	7,000	37,000	6,000	7,000	4,000
<30	2,000	1,000	2,000	*	1,000	S
30–39	11,000	2,000	10,000	1,000	1,000	S
40–49	7,000	1,000	7,000	2,000	2,000	S
50–59	12,000	2,000	11,000	2,000	3,000	S
60+	6,000	1,000	6,000	1,000	S	1,000
Physical/related scientists	83,000	53,000	12,000	34,000	13,000	19,000
<30	8,000	7,000	2,000	1,000	2,000	1,000
30–39	23,000	14,000	3,000	12,000	3,000	4,000
40–49	27,000	18,000	2,000	11,000	4,000	6,000
50–59	16,000	10,000	2,000	7,000	3,000	4,000
60+	8,000	4,000	2,000	2,000	S	4,000
Chemists, except biochemists	25,000	18,000	S	12,000	1,000	6,000
<30	2,000	2,000	S	*	S	*
30–39	9,000	6,000	S	4,000	S	2,000
40–49	8,000	6,000	S	5,000	S	1,000
50–59	5,000	3,000	S	2,000	S	1,000
60+	2,000	1,000	S	S	S	1,000
Earth/atmospheric/ocean scientists	27,000	19,000	S	10,000	6,000	7,000
<30	2,000	2,000	S	*	*	*
30–39	6,000	4,000	S	3,000	2,000	2,000
40–49	11,000	9,000	S	3,000	3,000	2,000
50–59	6,000	4,000	S	3,000	1,000	1,000
60+	2,000	1,000	S	S	S	2,000
Physicists/astronomers	8,000	5,000	*	3,000	3,000	2,000
<30	1,000	1,000	S	S	*	S
30–39	3,000	1,000	S	1,000	1,000	*
40–49	2,000	1,000	S	S	S	S
50–59	2,000	1,000	S	S	S	S
60+	1,000	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	12,000	4,000	12,000	4,000	1,000	1,000
<30	2,000	1,000	2,000	*	S	S
30–39	3,000	1,000	3,000	2,000	S	S
40–49	2,000	S	2,000	S	S	S
50–59	2,000	S	2,000	1,000	S	S
60+	2,000	S	2,000	S	S	S
Other physical/related scientists	10,000	6,000	S	6,000	2,000	3,000
<30	1,000	1,000	S	S	S	S
30–39	3,000	2,000	S	3,000	S	S
40–49	3,000	1,000	S	2,000	S	2,000
50–59	1,000	1,000	S	S	S	S
60+	1,000	S	S	S	S	S
Social/related scientists	215,000	82,000	42,000	94,000	10,000	118,000
<30	32,000	21,000	8,000	10,000	1,000	14,000
30–39	54,000	22,000	11,000	24,000	3,000	29,000
40–49	59,000	21,000	8,000	30,000	3,000	33,000
50–59	50,000	12,000	10,000	24,000	3,000	30,000
60+	20,000	6,000	5,000	6,000	S	12,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity: Research and development	Teaching	Management, sales, administration	Computer applications	Other
Economists	17,000	11,000	S	10,000	1,000	5,000
<30	3,000	3,000	S	1,000	S	S
30–39	7,000	4,000	S	5,000	1,000	2,000
40–49	4,000	2,000	S	2,000	S	S
50–59	3,000	1,000	S	2,000	S	S
60+	S	S	S	S	S	S
Political/related scientists	4,000	2,000	S	3,000	S	1,000
<30	1,000	1,000	S	S	S	S
30–39	1,000	1,000	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	30,000	14,000	29,000	4,000	2,000	4,000
<30	6,000	3,000	6,000	1,000	S	S
30–39	7,000	4,000	6,000	*	S	1,000
40–49	6,000	2,000	6,000	S	S	1,000
50–59	7,000	2,000	6,000	2,000	S	1,000
60+	5,000	2,000	5,000	1,000	S	1,000
Psychologists	100,000	24,000	12,000	35,000	3,000	88,000
<30	13,000	7,000	2,000	2,000	S	9,000
30–39	25,000	6,000	4,000	9,000	1,000	22,000
40–49	24,000	6,000	2,000	11,000	S	22,000
50–59	27,000	4,000	3,000	11,000	S	25,000
60+	11,000	1,000	S	2,000	S	10,000
Sociologists/anthropologists	8,000	7,000	S	4,000	S	2,000
<30	1,000	1,000	S	S	S	S
30–39	2,000	2,000	S	1,000	S	S
40–49	3,000	3,000	S	1,000	S	2,000
50–59	1,000	1,000	S	1,000	S	S
60+	S	S	S	S	S	S
Other social/related scientists	56,000	24,000	S	38,000	4,000	18,000
<30	9,000	6,000	S	6,000	S	4,000
30–39	12,000	5,000	S	8,000	S	4,000
40–49	20,000	8,000	S	15,000	S	7,000
50–59	11,000	4,000	S	7,000	S	4,000
60+	3,000	2,000	S	2,000	S	S
Engineers	450,000	314,000	10,000	248,000	74,000	80,000
<30	46,000	38,000	1,000	14,000	10,000	7,000
30–39	127,000	91,000	2,000	65,000	26,000	19,000
40–49	140,000	92,000	3,000	85,000	18,000	27,000
50–59	97,000	65,000	2,000	58,000	14,000	20,000
60+	40,000	27,000	2,000	25,000	6,000	6,000
Aerospace/aeronautical/astronautical engineers	37,000	27,000	S	18,000	6,000	6,000
<30	3,000	3,000	S	*	1,000	S
30–39	7,000	5,000	S	3,000	1,000	1,000
40–49	13,000	7,000	S	7,000	2,000	3,000
50–59	8,000	7,000	S	4,000	2,000	S
60+	6,000	5,000	S	4,000	S	S
Chemical engineers	21,000	15,000	S	10,000	2,000	7,000
<30	2,000	2,000	S	1,000	*	1,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
30–39	5,000	4,000	S	2,000	1,000	1,000
40–49	6,000	3,000	S	3,000	S	2,000
50–59	5,000	4,000	S	3,000	1,000	2,000
60+	2,000	1,000	S	S	S	S
Civil/architectural/sanitary engineers	68,000	40,000	S	46,000	11,000	18,000
<30	8,000	7,000	S	4,000	2,000	2,000
30–39	18,000	11,000	S	13,000	4,000	4,000
40–49	20,000	10,000	S	15,000	2,000	5,000
50–59	15,000	8,000	S	10,000	1,000	4,000
60+	7,000	4,000	S	4,000	1,000	3,000
Electrical/computer hardware engineers	118,000	92,000	1,000	52,000	31,000	10,000
<30	13,000	11,000	S	3,000	4,000	1,000
30–39	36,000	27,000	S	14,000	12,000	4,000
40–49	34,000	27,000	S	17,000	8,000	2,000
50–59	25,000	20,000	S	13,000	6,000	2,000
60+	9,000	7,000	S	5,000	2,000	1,000
Industrial engineers	23,000	16,000	S	14,000	3,000	4,000
<30	2,000	2,000	S	1,000	1,000	1,000
30–39	10,000	8,000	S	6,000	S	1,000
40–49	5,000	3,000	S	3,000	S	1,000
50–59	3,000	2,000	S	2,000	S	1,000
60+	2,000	1,000	S	S	S	S
Mechanical engineers	74,000	60,000	1,000	39,000	9,000	9,000
<30	8,000	7,000	S	2,000	2,000	1,000
30–39	20,000	18,000	S	9,000	3,000	2,000
40–49	27,000	20,000	S	16,000	3,000	4,000
50–59	14,000	11,000	S	10,000	1,000	2,000
60+	5,000	4,000	S	2,000	S	1,000
Postsecondary teachers-engineering	8,000	4,000	7,000	2,000	1,000	S
<30	1,000	1,000	1,000	S	S	S
30–39	2,000	2,000	2,000	S	S	S
40–49	1,000	1,000	1,000	S	S	S
50–59	1,000	S	1,000	S	S	S
60+	1,000	S	1,000	S	S	S
Other engineers	102,000	61,000	1,000	67,000	11,000	26,000
<30	8,000	6,000	S	3,000	1,000	2,000
30–39	27,000	17,000	S	19,000	4,000	5,000
40–49	34,000	21,000	S	23,000	2,000	10,000
50–59	24,000	14,000	S	16,000	2,000	7,000
60+	9,000	4,000	S	6,000	1,000	2,000
S&E-related occupations	1,228,000	257,000	531,000	557,000	149,000	561,000
<30	104,000	27,000	47,000	34,000	9,000	58,000
30–39	302,000	76,000	130,000	136,000	44,000	128,000
40–49	373,000	76,000	147,000	180,000	47,000	182,000
50–59	361,000	65,000	166,000	170,000	39,000	154,000
60+	87,000	13,000	42,000	37,000	10,000	40,000
Health-related occupations	599,000	97,000	194,000	227,000	28,000	471,000
<30	63,000	12,000	18,000	18,000	1,000	53,000
30–39	144,000	27,000	46,000	48,000	7,000	110,000
40–49	191,000	31,000	67,000	69,000	11,000	151,000
50–59	164,000	23,000	48,000	76,000	6,000	127,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
60+	37,000	3,000	15,000	16,000	2,000	30,000
S&E managers	135,000	26,000	S	132,000	26,000	26,000
<30	1,000	1,000	S	1,000	S	S
30–39	31,000	8,000	S	29,000	10,000	5,000
40–49	49,000	8,000	S	48,000	9,000	11,000
50–59	47,000	9,000	S	46,000	7,000	8,000
60+	8,000	S	S	8,000	S	2,000
S&E precollege teachers	341,000	55,000	335,000	120,000	36,000	26,000
<30	29,000	7,000	28,000	10,000	2,000	2,000
30–39	83,000	17,000	83,000	36,000	5,000	5,000
40–49	81,000	11,000	80,000	31,000	10,000	7,000
50–59	119,000	15,000	117,000	35,000	15,000	11,000
60+	29,000	4,000	27,000	7,000	3,000	2,000
S&E technicians/technologists	89,000	44,000	S	36,000	53,000	16,000
<30	7,000	4,000	S	2,000	4,000	2,000
30–39	27,000	14,000	S	10,000	19,000	4,000
40–49	32,000	15,000	S	15,000	15,000	6,000
50–59	19,000	10,000	S	6,000	11,000	4,000
60+	5,000	2,000	S	2,000	4,000	S
Other S&E-related occupations	62,000	34,000	S	43,000	7,000	23,000
<30	4,000	3,000	S	2,000	S	S
30–39	17,000	9,000	S	12,000	4,000	4,000
40–49	20,000	11,000	S	17,000	S	8,000
50–59	12,000	8,000	S	8,000	S	4,000
60+	8,000	4,000	S	4,000	S	5,000
Non-S&E occupations	2,328,000	381,000	506,000	1,652,000	164,000	825,000
<30	123,000	29,000	34,000	82,000	6,000	48,000
30–39	564,000	101,000	124,000	398,000	42,000	199,000
40–49	663,000	116,000	151,000	483,000	46,000	215,000
50–59	713,000	95,000	151,000	508,000	46,000	262,000
60+	264,000	40,000	47,000	181,000	25,000	101,000
Art/humanities/related occupations	74,000	30,000	2,000	41,000	9,000	35,000
<30	2,000	S	S	1,000	S	2,000
30–39	23,000	8,000	S	16,000	4,000	7,000
40–49	23,000	11,000	S	11,000	2,000	11,000
50–59	18,000	8,000	S	9,000	S	11,000
60+	8,000	2,000	S	4,000	S	5,000
Management-related occupations	457,000	80,000	14,000	410,000	50,000	122,000
<30	22,000	7,000	S	21,000	2,000	4,000
30–39	112,000	22,000	2,000	100,000	11,000	33,000
40–49	138,000	23,000	4,000	125,000	17,000	32,000
50–59	137,000	22,000	7,000	122,000	12,000	36,000
60+	48,000	6,000	S	43,000	8,000	17,000
Non-S&E managers	362,000	53,000	10,000	350,000	16,000	62,000
<30	8,000	S	S	7,000	S	S
30–39	63,000	9,000	S	62,000	4,000	10,000
40–49	127,000	19,000	3,000	122,000	5,000	24,000
50–59	135,000	16,000	5,000	131,000	5,000	24,000
60+	29,000	6,000	S	28,000	2,000	4,000
Non-S&E postsecondary teachers	63,000	17,000	55,000	21,000	6,000	13,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	6,000	4,000	5,000	1,000	S	1,000
30–39	13,000	4,000	11,000	2,000	1,000	4,000
40–49	18,000	4,000	17,000	9,000	1,000	3,000
50–59	18,000	4,000	16,000	7,000	4,000	3,000
60+	8,000	1,000	7,000	3,000	S	2,000
Non-S&E precollege/other teachers	283,000	39,000	269,000	97,000	15,000	41,000
<30	18,000	6,000	17,000	7,000	S	2,000
30–39	65,000	8,000	64,000	20,000	3,000	10,000
40–49	85,000	12,000	82,000	35,000	4,000	9,000
50–59	89,000	10,000	83,000	30,000	4,000	14,000
60+	26,000	3,000	24,000	5,000	3,000	6,000
Sales/marketing occupations	304,000	48,000	7,000	289,000	20,000	58,000
<30	11,000	2,000	S	10,000	S	1,000
30–39	89,000	22,000	2,000	87,000	5,000	8,000
40–49	73,000	10,000	S	69,000	4,000	16,000
50–59	84,000	7,000	S	80,000	5,000	21,000
60+	47,000	7,000	S	42,000	5,000	11,000
Social services/related occupations	353,000	35,000	89,000	157,000	15,000	303,000
<30	36,000	4,000	7,000	20,000	1,000	31,000
30–39	95,000	9,000	27,000	42,000	7,000	79,000
40–49	87,000	10,000	27,000	37,000	2,000	73,000
50–59	104,000	8,000	23,000	48,000	4,000	92,000
60+	31,000	4,000	5,000	10,000	S	27,000
Other non-S&E occupations	432,000	80,000	60,000	286,000	35,000	191,000
<30	20,000	5,000	4,000	16,000	2,000	6,000
30–39	104,000	19,000	16,000	68,000	8,000	47,000
40–49	112,000	26,000	17,000	76,000	10,000	47,000
50–59	128,000	19,000	16,000	82,000	10,000	61,000
60+	67,000	10,000	7,000	45,000	5,000	29,000
Doctorate degrees, all occupations	885,000	537,000	286,000	363,000	78,000	192,000
<30	17,000	14,000	5,000	4,000	2,000	3,000
30–39	200,000	150,000	53,000	66,000	24,000	30,000
40–49	257,000	168,000	79,000	108,000	24,000	48,000
50–59	261,000	135,000	90,000	123,000	20,000	68,000
60+	149,000	70,000	60,000	63,000	9,000	42,000
S&E occupations	558,000	411,000	183,000	168,000	62,000	96,000
<30	14,000	14,000	4,000	2,000	2,000	1,000
30–39	151,000	127,000	39,000	39,000	19,000	17,000
40–49	171,000	129,000	55,000	57,000	20,000	27,000
50–59	140,000	91,000	51,000	47,000	15,000	32,000
60+	82,000	50,000	36,000	23,000	7,000	19,000
Scientists	465,000	332,000	164,000	142,000	50,000	86,000
<30	12,000	11,000	4,000	2,000	1,000	1,000
30–39	124,000	103,000	34,000	33,000	15,000	14,000
40–49	142,000	104,000	48,000	48,000	16,000	24,000
50–59	121,000	76,000	46,000	41,000	13,000	30,000
60+	66,000	38,000	32,000	18,000	5,000	17,000
Biological/agricultural/other life scientists	148,000	129,000	35,000	51,000	5,000	15,000
<30	5,000	5,000	*	1,000	*	S
30–39	45,000	42,000	7,000	14,000	2,000	3,000
40–49	50,000	45,000	12,000	19,000	2,000	4,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity: Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	32,000	26,000	10,000	12,000	1,000	4,000
60+	16,000	11,000	6,000	5,000	*	3,000
Agricultural/food scientists	9,000	8,000	*	4,000	1,000	1,000
<30	*	*	S	S	S	S
30–39	2,000	2,000	*	1,000	S	*
40–49	4,000	3,000	S	2,000	*	1,000
50–59	2,000	2,000	S	1,000	*	*
60+	1,000	1,000	S	1,000	S	*
Biological/medical scientists	103,000	96,000	4,000	39,000	4,000	11,000
<30	5,000	4,000	S	1,000	*	S
30–39	37,000	36,000	1,000	12,000	2,000	3,000
40–49	34,000	32,000	1,000	15,000	1,000	3,000
50–59	19,000	17,000	1,000	9,000	1,000	3,000
60+	8,000	7,000	*	3,000	*	2,000
Environmental life scientists	2,000	2,000	S	1,000	*	*
<30	S	S	S	S	S	S
30–39	*	*	S	S	S	S
40–49	1,000	1,000	S	*	S	S
50–59	1,000	1,000	S	*	S	S
60+	*	S	S	S	S	S
Postsecondary teachers-life/related sciences	34,000	23,000	31,000	7,000	*	2,000
<30	*	S	*	S	S	S
30–39	6,000	4,000	5,000	1,000	S	*
40–49	12,000	9,000	11,000	3,000	S	*
50–59	10,000	7,000	9,000	2,000	S	1,000
60+	6,000	3,000	6,000	1,000	S	1,000
Computer/mathematical scientists	86,000	57,000	33,000	20,000	34,000	7,000
<30	3,000	3,000	2,000	*	1,000	S
30–39	24,000	19,000	7,000	4,000	10,000	1,000
40–49	26,000	17,000	9,000	7,000	11,000	2,000
50–59	22,000	13,000	8,000	7,000	9,000	2,000
60+	11,000	5,000	6,000	2,000	3,000	1,000
Computer/information scientists	43,000	27,000	1,000	13,000	28,000	4,000
<30	*	*	S	S	*	S
30–39	14,000	10,000	S	3,000	9,000	1,000
40–49	14,000	9,000	*	5,000	10,000	1,000
50–59	10,000	6,000	S	4,000	7,000	1,000
60+	3,000	1,000	*	1,000	2,000	*
Mathematical scientists	11,000	10,000	1,000	3,000	4,000	1,000
<30	*	*	S	S	S	S
30–39	3,000	3,000	S	*	1,000	*
40–49	3,000	3,000	*	1,000	1,000	*
50–59	3,000	2,000	*	1,000	1,000	*
60+	1,000	1,000	S	*	1,000	*
Postsecondary teachers-computer/ mathematical sciences	33,000	21,000	31,000	4,000	2,000	2,000
<30	2,000	2,000	2,000	S	S	S
30–39	7,000	6,000	7,000	1,000	*	*
40–49	9,000	6,000	8,000	1,000	*	*
50–59	8,000	5,000	8,000	2,000	1,000	*
60+	6,000	3,000	6,000	1,000	1,000	1,000

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity: Research and development	Teaching	Management, sales, administration	Computer applications	Other
Physical/related scientists	91,000	75,000	29,000	25,000	8,000	9,000
<30	2,000	2,000	*	*	*	*
30–39	25,000	23,000	7,000	6,000	2,000	2,000
40–49	28,000	24,000	9,000	8,000	2,000	3,000
50–59	21,000	17,000	6,000	7,000	2,000	2,000
60+	14,000	10,000	6,000	4,000	1,000	2,000
Chemists, except biochemists	30,000	27,000	*	11,000	1,000	3,000
<30	1,000	1,000	S	*	S	*
30–39	10,000	9,000	S	4,000	*	1,000
40–49	9,000	8,000	*	3,000	*	1,000
50–59	7,000	6,000	S	3,000	*	1,000
60+	3,000	2,000	*	1,000	*	1,000
Earth/atmospheric/ocean scientists	10,000	9,000	*	3,000	2,000	1,000
<30	S	S	S	S	S	S
30–39	2,000	2,000	*	1,000	1,000	*
40–49	3,000	3,000	S	1,000	1,000	*
50–59	3,000	3,000	S	1,000	1,000	1,000
60+	1,000	1,000	*	*	S	*
Physicists/astronomers	17,000	16,000	1,000	4,000	3,000	1,000
<30	*	*	S	S	S	S
30–39	5,000	5,000	*	1,000	1,000	*
40–49	4,000	4,000	*	1,000	1,000	*
50–59	4,000	4,000	S	1,000	1,000	*
60+	3,000	2,000	*	1,000	*	*
Postsecondary teachers-physical/ related sciences	30,000	20,000	28,000	5,000	1,000	2,000
<30	*	*	*	S	S	S
30–39	7,000	5,000	6,000	1,000	*	*
40–49	9,000	7,000	9,000	2,000	*	1,000
50–59	6,000	4,000	6,000	1,000	*	*
60+	6,000	3,000	6,000	2,000	*	1,000
Other physical/related scientists	4,000	4,000	S	2,000	*	1,000
<30	S	S	S	S	S	S
30–39	1,000	1,000	S	*	S	*
40–49	1,000	1,000	S	1,000	S	*
50–59	1,000	1,000	S	1,000	S	*
60+	*	*	S	S	S	S
Social/related scientists	140,000	71,000	67,000	45,000	3,000	56,000
<30	1,000	1,000	*	1,000	S	*
30–39	29,000	20,000	14,000	8,000	1,000	8,000
40–49	38,000	19,000	18,000	14,000	1,000	15,000
50–59	46,000	20,000	21,000	16,000	1,000	21,000
60+	26,000	12,000	14,000	7,000	1,000	12,000
Economists	9,000	7,000	*	3,000	1,000	2,000
<30	S	S	S	S	S	S
30–39	2,000	2,000	*	1,000	*	*
40–49	3,000	2,000	S	1,000	*	1,000
50–59	2,000	2,000	S	1,000	S	1,000
60+	1,000	1,000	S	*	S	*
Political/related scientists	2,000	1,000	*	1,000	S	*

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity: Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	S	S	S	S	S	S
30–39	*	*	S	*	S	S
40–49	*	*	S	*	S	S
50–59	*	*	S	*	S	*
60+	1,000	*	S	*	S	*
Postsecondary teachers-social/ related sciences	64,000	41,000	61,000	11,000	1,000	7,000
<30	1,000	*	*	S	S	S
30–39	14,000	10,000	13,000	2,000	S	1,000
40–49	17,000	11,000	16,000	4,000	*	1,000
50–59	20,000	12,000	19,000	3,000	*	2,000
60+	13,000	8,000	12,000	2,000	*	2,000
Psychologists	55,000	13,000	5,000	24,000	1,000	45,000
<30	1,000	1,000	S	*	S	*
30–39	10,000	4,000	1,000	4,000	*	6,000
40–49	15,000	3,000	1,000	7,000	*	12,000
50–59	20,000	3,000	2,000	9,000	*	17,000
60+	10,000	2,000	1,000	3,000	*	9,000
Sociologists/anthropologists	5,000	4,000	*	2,000	*	1,000
<30	S	S	S	S	S	S
30–39	1,000	1,000	S	*	S	S
40–49	1,000	1,000	*	1,000	S	*
50–59	2,000	2,000	S	1,000	S	*
60+	1,000	*	S	*	S	*
Other social/related scientists	6,000	5,000	*	3,000	*	1,000
<30	S	S	S	S	S	S
30–39	2,000	1,000	S	1,000	*	*
40–49	2,000	1,000	S	1,000	S	*
50–59	2,000	2,000	S	1,000	S	*
60+	1,000	1,000	S	*	S	*
Engineers	93,000	79,000	19,000	26,000	13,000	9,000
<30	3,000	2,000	*	*	1,000	S
30–39	27,000	24,000	4,000	7,000	4,000	2,000
40–49	30,000	25,000	6,000	9,000	4,000	3,000
50–59	19,000	15,000	5,000	6,000	3,000	2,000
60+	15,000	12,000	4,000	4,000	2,000	2,000
Aerospace/aeronautical/astronautical engineers	5,000	5,000	S	1,000	1,000	*
<30	S	S	S	S	S	S
30–39	1,000	1,000	S	*	*	S
40–49	1,000	1,000	S	*	*	S
50–59	1,000	1,000	S	*	*	S
60+	1,000	1,000	S	*	*	S
Chemical engineers	9,000	8,000	S	3,000	1,000	1,000
<30	*	*	S	*	S	S
30–39	3,000	2,000	S	1,000	*	*
40–49	3,000	3,000	S	1,000	*	1,000
50–59	2,000	2,000	S	*	*	*
60+	1,000	1,000	S	*	S	S
Civil/architectural/sanitary engineers	5,000	4,000	S	3,000	1,000	1,000
<30	S	S	S	S	S	S
30–39	1,000	1,000	S	*	*	*

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40–49	1,000	1,000	S	1,000	*	*
50–59	1,000	1,000	S	1,000	*	*
60+	1,000	1,000	S	1,000	S	*
Electrical/computer hardware engineers	21,000	19,000	*	6,000	4,000	2,000
<30	1,000	1,000	S	S	*	S
30–39	7,000	7,000	S	2,000	1,000	*
40–49	7,000	6,000	S	2,000	1,000	1,000
50–59	3,000	3,000	S	1,000	1,000	*
60+	3,000	3,000	S	1,000	*	*
Industrial engineers	2,000	2,000	S	1,000	*	*
<30	S	S	S	S	S	S
30–39	*	*	S	*	S	S
40–49	1,000	1,000	S	*	*	S
50–59	*	*	S	*	S	S
60+	*	S	S	S	S	S
Mechanical engineers	10,000	9,000	*	3,000	2,000	1,000
<30	*	*	S	S	S	S
30–39	3,000	3,000	S	1,000	1,000	*
40–49	3,000	3,000	S	1,000	1,000	*
50–59	2,000	1,000	S	1,000	*	*
60+	2,000	1,000	*	*	*	S
Postsecondary teachers-engineering	20,000	15,000	18,000	4,000	1,000	1,000
<30	*	S	*	S	S	S
30–39	4,000	3,000	4,000	1,000	S	S
40–49	6,000	5,000	6,000	1,000	*	*
50–59	5,000	4,000	5,000	1,000	*	*
60+	4,000	3,000	3,000	1,000	*	*
Other engineers	22,000	19,000	*	7,000	3,000	3,000
<30	1,000	1,000	S	S	S	S
30–39	7,000	6,000	S	2,000	1,000	1,000
40–49	7,000	6,000	S	2,000	1,000	1,000
50–59	4,000	4,000	S	2,000	1,000	1,000
60+	3,000	2,000	S	1,000	*	1,000
S&E-related occupations	105,000	48,000	38,000	48,000	9,000	40,000
<30	2,000	*	*	1,000	S	2,000
30–39	20,000	11,000	7,000	7,000	4,000	6,000
40–49	30,000	15,000	9,000	15,000	2,000	10,000
50–59	36,000	15,000	14,000	16,000	3,000	15,000
60+	17,000	7,000	7,000	8,000	1,000	6,000
Health-related occupations	57,000	23,000	27,000	17,000	2,000	33,000
<30	2,000	*	*	1,000	S	2,000
30–39	9,000	5,000	4,000	2,000	*	5,000
40–49	16,000	7,000	7,000	6,000	*	9,000
50–59	19,000	8,000	9,000	5,000	1,000	12,000
60+	10,000	3,000	6,000	3,000	*	5,000
S&E managers	26,000	14,000	*	25,000	1,000	4,000
<30	S	S	S	S	S	S
30–39	4,000	2,000	S	3,000	*	*
40–49	9,000	6,000	S	9,000	*	1,000
50–59	10,000	4,000	S	9,000	*	2,000
60+	4,000	2,000	S	3,000	S	*

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity: Research and development	Teaching	Management, sales, administration	Computer applications	Other
S&E precollege teachers	12,000	3,000	11,000	2,000	3,000	1,000
<30	S	S	S	S	S	S
30–39	3,000	*	3,000	*	S	S
40–49	2,000	1,000	2,000	1,000	S	S
50–59	5,000	2,000	5,000	1,000	S	S
60+	1,000	S	1,000	*	S	S
S&E technicians/technologists	8,000	6,000	*	2,000	3,000	1,000
<30	S	S	S	S	S	S
30–39	3,000	2,000	S	1,000	1,000	*
40–49	2,000	2,000	S	1,000	1,000	S
50–59	1,000	1,000	S	*	1,000	S
60+	1,000	1,000	S	S	*	S
Other S&E-related occupations	3,000	2,000	S	2,000	S	*
<30	S	S	S	S	S	S
30–39	1,000	1,000	S	S	S	S
40–49	*	S	S	S	S	S
50–59	*	S	S	S	S	S
60+	S	S	S	S	S	S
Non-S&E occupations	222,000	78,000	65,000	147,000	7,000	57,000
<30	*	*	S	*	S	*
30–39	30,000	12,000	7,000	19,000	1,000	8,000
40–49	56,000	24,000	15,000	36,000	2,000	11,000
50–59	86,000	28,000	25,000	59,000	2,000	21,000
60+	51,000	13,000	17,000	32,000	2,000	16,000
Art/humanities/related occupations	10,000	4,000	*	4,000	1,000	6,000
<30	S	S	S	S	S	S
30–39	1,000	1,000	S	1,000	S	1,000
40–49	3,000	1,000	S	1,000	*	2,000
50–59	3,000	2,000	*	1,000	S	2,000
60+	3,000	1,000	S	1,000	S	2,000
Management-related occupations	31,000	10,000	2,000	25,000	2,000	8,000
<30	*	S	S	S	S	S
30–39	8,000	2,000	*	7,000	1,000	1,000
40–49	7,000	2,000	1,000	5,000	*	1,000
50–59	11,000	4,000	*	9,000	1,000	3,000
60+	6,000	2,000	1,000	4,000	*	2,000
Non-S&E managers	74,000	22,000	4,000	68,000	2,000	12,000
<30	S	S	S	S	S	S
30–39	5,000	2,000	S	5,000	*	1,000
40–49	18,000	7,000	*	16,000	1,000	2,000
50–59	35,000	10,000	2,000	33,000	*	7,000
60+	16,000	4,000	1,000	15,000	*	3,000
Non-S&E postsecondary teachers	46,000	25,000	42,000	12,000	1,000	5,000
<30	S	S	S	S	S	S
30–39	7,000	5,000	6,000	1,000	S	*
40–49	13,000	8,000	13,000	3,000	*	1,000
50–59	15,000	8,000	15,000	5,000	*	2,000
60+	10,000	4,000	9,000	3,000	S	2,000
Non-S&E precollege/other teachers	8,000	3,000	7,000	2,000	S	1,000
<30	S	S	S	S	S	S

TABLE 18. Employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
30–39	1,000	S	1,000	*	S	S
40–49	1,000	S	1,000	*	S	S
50–59	6,000	3,000	5,000	1,000	S	1,000
60+	1,000	S	1,000	S	S	*
Sales/marketing occupations	18,000	5,000	1,000	17,000	1,000	2,000
<30	S	S	S	S	S	S
30–39	2,000	1,000	S	2,000	*	*
40–49	6,000	3,000	S	6,000	S	*
50–59	4,000	1,000	S	4,000	*	1,000
60+	5,000	1,000	S	5,000	*	*
Social services/related occupations	12,000	1,000	6,000	5,000	*	10,000
<30	S	S	S	S	S	S
30–39	1,000	*	S	*	S	1,000
40–49	2,000	*	1,000	2,000	S	1,000
50–59	5,000	*	3,000	2,000	S	4,000
60+	4,000	1,000	2,000	1,000	S	4,000
Other non-S&E occupations	23,000	6,000	2,000	15,000	1,000	12,000
<30	S	S	S	S	S	S
30–39	5,000	1,000	*	3,000	S	3,000
40–49	6,000	2,000	*	3,000	*	3,000
50–59	6,000	2,000	*	5,000	S	3,000
60+	6,000	1,000	1,000	4,000	1,000	4,000

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Numbers are rounded to the nearest thousand. Detail may exceed total due to multiple responses and because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
All degree levels and occupations[a]	18,021,000	2,979,000	3,398,000	2,708,000	2,481,000	2,230,000	1,945,000	1,305,000	975,000
Male	10,437,000	1,406,000	1,858,000	1,534,000	1,458,000	1,306,000	1,229,000	940,000	706,000
Female	7,585,000	1,573,000	1,540,000	1,174,000	1,023,000	924,000	716,000	365,000	269,000
S&E occupations	4,817,000	922,000	1,013,000	784,000	693,000	529,000	409,000	279,000	187,000
Male	3,548,000	601,000	722,000	584,000	516,000	400,000	321,000	241,000	162,000
Female	1,269,000	321,000	291,000	200,000	177,000	128,000	89,000	38,000	25,000
Scientists	3,262,000	659,000	705,000	552,000	466,000	344,000	267,000	171,000	98,000
Male	2,165,000	388,000	457,000	382,000	311,000	232,000	184,000	135,000	75,000
Female	1,097,000	271,000	248,000	170,000	156,000	111,000	83,000	35,000	23,000
Biological/agricultural/other life scientists	444,000	118,000	86,000	54,000	56,000	49,000	38,000	26,000	16,000
Male	265,000	59,000	43,000	32,000	36,000	32,000	28,000	22,000	13,000
Female	179,000	60,000	42,000	22,000	21,000	17,000	10,000	5,000	3,000
Agricultural/food scientists	48,000	7,000	8,000	4,000	9,000	8,000	6,000	4,000	2,000
Male	33,000	4,000	4,000	3,000	7,000	5,000	5,000	3,000	2,000
Female	15,000	3,000	4,000	2,000	2,000	3,000	1,000	1,000	S
Biological/medical scientists	298,000	92,000	64,000	39,000	33,000	29,000	19,000	11,000	10,000
Male	161,000	44,000	32,000	23,000	17,000	17,000	12,000	9,000	8,000
Female	137,000	49,000	32,000	17,000	16,000	12,000	7,000	3,000	3,000
Environmental life scientists	39,000	6,000	4,000	3,000	7,000	6,000	7,000	6,000	1,000
Male	35,000	4,000	3,000	2,000	6,000	6,000	7,000	6,000	1,000
Female	4,000	1,000	1,000	1,000	1,000	*	S	S	S
Postsecondary teachers-life/related sciences	57,000	13,000	10,000	8,000	7,000	5,000	6,000	5,000	2,000
Male	35,000	6,000	4,000	5,000	5,000	4,000	4,000	4,000	2,000
Female	22,000	7,000	6,000	3,000	2,000	2,000	2,000	1,000	*
Computer/mathematical scientists	2,008,000	340,000	467,000	391,000	317,000	204,000	157,000	87,000	45,000
Male	1,439,000	236,000	337,000	292,000	222,000	140,000	111,000	66,000	34,000
Female	570,000	104,000	129,000	99,000	94,000	65,000	47,000	20,000	12,000
Computer/information scientists	1,849,000	308,000	434,000	371,000	299,000	188,000	138,000	73,000	38,000
Male	1,339,000	216,000	323,000	278,000	212,000	130,000	96,000	56,000	28,000
Female	510,000	92,000	112,000	93,000	86,000	58,000	42,000	17,000	10,000
Mathematical scientists	67,000	12,000	15,000	8,000	9,000	6,000	10,000	5,000	2,000
Male	42,000	8,000	6,000	6,000	4,000	4,000	9,000	3,000	2,000
Female	26,000	4,000	8,000	2,000	5,000	2,000	1,000	2,000	1,000
Postsecondary teachers-computer/ mathematical sciences	92,000	20,000	17,000	12,000	9,000	11,000	9,000	8,000	6,000
Male	58,000	12,000	9,000	8,000	6,000	7,000	6,000	7,000	5,000
Female	35,000	8,000	9,000	4,000	3,000	4,000	4,000	1,000	1,000
Physical/related scientists	315,000	72,000	58,000	42,000	40,000	36,000	28,000	23,000	17,000
Male	225,000	39,000	39,000	28,000	30,000	30,000	22,000	21,000	15,000
Female	90,000	32,000	19,000	13,000	10,000	6,000	6,000	2,000	2,000
Chemists, except biochemists	124,000	30,000	25,000	16,000	15,000	14,000	11,000	8,000	5,000
Male	78,000	13,000	15,000	9,000	10,000	12,000	8,000	7,000	5,000
Female	46,000	17,000	10,000	7,000	5,000	2,000	3,000	1,000	1,000
Earth/atmospheric/ocean scientists	71,000	11,000	11,000	12,000	12,000	9,000	7,000	5,000	3,000
Male	59,000	7,000	9,000	10,000	10,000	8,000	6,000	5,000	3,000
Female	13,000	4,000	2,000	3,000	2,000	1,000	1,000	S	S

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Physicists/astronomers	31,000	9,000	5,000	3,000	4,000	3,000	2,000	3,000	2,000
Male	27,000	7,000	4,000	3,000	3,000	3,000	2,000	3,000	2,000
Female	3,000	1,000	1,000	*	1,000	*	S	S	S
Postsecondary teachers-physical/related sciences	52,000	14,000	9,000	6,000	6,000	4,000	4,000	4,000	5,000
Male	37,000	7,000	5,000	4,000	5,000	3,000	4,000	4,000	5,000
Female	14,000	6,000	3,000	2,000	1,000	1,000	*	1,000	*
Other physical/related scientists	37,000	8,000	9,000	4,000	4,000	6,000	3,000	3,000	1,000
Male	24,000	5,000	5,000	3,000	2,000	5,000	2,000	2,000	1,000
Female	13,000	3,000	4,000	2,000	1,000	1,000	1,000	S	S
Social/related scientists	495,000	129,000	95,000	65,000	54,000	54,000	44,000	34,000	19,000
Male	237,000	54,000	38,000	29,000	23,000	30,000	24,000	26,000	13,000
Female	258,000	75,000	57,000	36,000	31,000	24,000	20,000	8,000	7,000
Economists	35,000	9,000	5,000	6,000	2,000	4,000	3,000	3,000	2,000
Male	24,000	5,000	4,000	4,000	1,000	4,000	2,000	3,000	2,000
Female	10,000	5,000	2,000	2,000	1,000	*	1,000	S	S
Political/related scientists	14,000	6,000	2,000	1,000	1,000	1,000	*	1,000	*
Male	7,000	2,000	1,000	S	1,000	1,000	*	1,000	*
Female	7,000	4,000	2,000	1,000	S	S	S	S	S
Postsecondary teachers-social/related sciences	106,000	28,000	19,000	12,000	10,000	12,000	11,000	9,000	5,000
Male	62,000	15,000	10,000	6,000	5,000	7,000	8,000	7,000	4,000
Female	43,000	12,000	10,000	6,000	5,000	4,000	3,000	2,000	1,000
Psychologists	181,000	46,000	32,000	26,000	21,000	24,000	17,000	9,000	5,000
Male	60,000	12,000	6,000	7,000	7,000	11,000	8,000	6,000	2,000
Female	121,000	33,000	26,000	19,000	15,000	13,000	9,000	3,000	3,000
Sociologists/anthropologists	22,000	7,000	4,000	2,000	3,000	3,000	1,000	1,000	1,000
Male	9,000	2,000	2,000	1,000	2,000	*	1,000	*	S
Female	13,000	5,000	2,000	*	1,000	3,000	1,000	S	S
Other social/related scientists	138,000	33,000	31,000	18,000	16,000	10,000	12,000	11,000	6,000
Male	74,000	17,000	16,000	11,000	7,000	6,000	5,000	9,000	4,000
Female	64,000	16,000	16,000	8,000	9,000	4,000	7,000	2,000	2,000
Engineers	1,555,000	263,000	308,000	232,000	227,000	185,000	143,000	108,000	89,000
Male	1,383,000	213,000	265,000	202,000	206,000	168,000	137,000	106,000	87,000
Female	172,000	50,000	43,000	30,000	21,000	17,000	6,000	2,000	2,000
Aerospace/aeronautical/astronautical engineers	95,000	14,000	15,000	12,000	16,000	14,000	9,000	7,000	9,000
Male	86,000	12,000	13,000	10,000	15,000	12,000	8,000	6,000	9,000
Female	9,000	2,000	2,000	2,000	1,000	2,000	S	S	S
Chemical engineers	75,000	15,000	16,000	10,000	11,000	7,000	8,000	5,000	3,000
Male	60,000	11,000	12,000	7,000	10,000	7,000	7,000	5,000	3,000
Female	15,000	4,000	4,000	3,000	2,000	1,000	S	S	S
Civil/architectural/sanitary engineers	247,000	39,000	48,000	30,000	34,000	29,000	26,000	21,000	20,000
Male	216,000	29,000	39,000	27,000	31,000	25,000	25,000	21,000	20,000
Female	31,000	10,000	9,000	3,000	4,000	3,000	1,000	S	S
Electrical/computer hardware engineers	367,000	64,000	76,000	59,000	58,000	43,000	30,000	22,000	15,000
Male	332,000	56,000	67,000	50,000	52,000	41,000	29,000	21,000	15,000

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Female	35,000	8,000	9,000	10,000	6,000	2,000	*	*	S
Industrial engineers	86,000	16,000	21,000	11,000	13,000	7,000	8,000	7,000	3,000
Male	75,000	12,000	18,000	10,000	11,000	6,000	7,000	7,000	3,000
Female	10,000	3,000	3,000	1,000	1,000	1,000	S	S	S
Mechanical engineers	272,000	50,000	54,000	50,000	33,000	30,000	22,000	15,000	17,000
Male	254,000	45,000	49,000	47,000	31,000	29,000	21,000	15,000	17,000
Female	18,000	5,000	5,000	3,000	3,000	1,000	1,000	S	S
Postsecondary teachers-engineering	33,000	9,000	6,000	4,000	4,000	3,000	3,000	2,000	3,000
Male	29,000	7,000	5,000	3,000	4,000	2,000	3,000	2,000	3,000
Female	4,000	2,000	1,000	1,000	*	*	S	S	S
Other engineers	380,000	56,000	73,000	56,000	57,000	51,000	39,000	29,000	19,000
Male	330,000	41,000	62,000	47,000	52,000	45,000	37,000	28,000	18,000
Female	49,000	15,000	11,000	8,000	5,000	6,000	2,000	S	S
S&E-related occupations	5,331,000	870,000	1,028,000	795,000	758,000	714,000	534,000	351,000	280,000
Male	2,383,000	307,000	410,000	336,000	352,000	325,000	260,000	217,000	177,000
Female	2,948,000	563,000	619,000	459,000	406,000	389,000	274,000	134,000	103,000
Health-related occupations	3,515,000	590,000	684,000	516,000	497,000	486,000	346,000	205,000	191,000
Male	1,247,000	154,000	195,000	161,000	187,000	181,000	142,000	110,000	118,000
Female	2,268,000	437,000	489,000	354,000	310,000	305,000	205,000	95,000	74,000
S&E managers	386,000	29,000	59,000	72,000	67,000	61,000	45,000	33,000	20,000
Male	273,000	18,000	39,000	53,000	47,000	42,000	32,000	28,000	14,000
Female	112,000	11,000	20,000	19,000	20,000	19,000	12,000	5,000	5,000
S&E precollege teachers	716,000	158,000	138,000	103,000	83,000	70,000	70,000	60,000	34,000
Male	344,000	74,000	73,000	46,000	34,000	31,000	31,000	37,000	16,000
Female	372,000	83,000	65,000	57,000	49,000	39,000	38,000	23,000	18,000
S&E technicians/technologists	500,000	74,000	106,000	72,000	79,000	66,000	51,000	34,000	17,000
Male	357,000	52,000	73,000	52,000	60,000	48,000	35,000	26,000	12,000
Female	143,000	23,000	33,000	21,000	19,000	18,000	16,000	8,000	5,000
Other S&E-related occupations	214,000	19,000	42,000	32,000	32,000	30,000	22,000	19,000	18,000
Male	162,000	9,000	30,000	25,000	24,000	22,000	19,000	16,000	17,000
Female	52,000	9,000	12,000	8,000	8,000	8,000	3,000	3,000	S
Non-S&E occupations	7,873,000	1,186,000	1,356,000	1,129,000	1,029,000	987,000	1,002,000	676,000	508,000
Male	4,506,000	497,000	726,000	614,000	590,000	581,000	648,000	482,000	368,000
Female	3,368,000	689,000	630,000	515,000	440,000	406,000	353,000	194,000	140,000
Art/humanities/related occupations	248,000	27,000	45,000	51,000	30,000	20,000	36,000	22,000	16,000
Male	117,000	13,000	24,000	22,000	13,000	10,000	14,000	11,000	9,000
Female	130,000	14,000	20,000	29,000	17,000	10,000	22,000	11,000	7,000
Management-related occupations	1,310,000	169,000	251,000	191,000	178,000	171,000	166,000	106,000	78,000
Male	780,000	88,000	141,000	103,000	105,000	100,000	110,000	71,000	62,000
Female	530,000	82,000	111,000	88,000	72,000	71,000	56,000	35,000	16,000
Non-S&E managers	922,000	55,000	118,000	140,000	153,000	149,000	150,000	89,000	68,000
Male	719,000	37,000	81,000	109,000	118,000	114,000	125,000	75,000	60,000
Female	203,000	18,000	37,000	31,000	35,000	35,000	25,000	13,000	8,000
Non-S&E postsecondary teachers	140,000	40,000	28,000	17,000	14,000	11,000	15,000	10,000	6,000
Male	78,000	21,000	14,000	7,000	9,000	6,000	10,000	8,000	4,000
Female	61,000	19,000	13,000	10,000	5,000	5,000	4,000	2,000	2,000
Non-S&E precollege/other teachers	600,000	129,000	99,000	86,000	80,000	73,000	69,000	37,000	27,000

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Male	127,000	28,000	24,000	15,000	7,000	13,000	19,000	13,000	7,000
Female	472,000	101,000	75,000	71,000	73,000	60,000	50,000	24,000	20,000
Sales/marketing occupations	1,322,000	160,000	243,000	174,000	160,000	150,000	168,000	149,000	117,000
Male	891,000	84,000	163,000	106,000	103,000	112,000	114,000	120,000	89,000
Female	431,000	76,000	80,000	69,000	57,000	38,000	54,000	29,000	29,000
Social services/related occupations	621,000	166,000	144,000	92,000	68,000	59,000	48,000	28,000	17,000
Male	198,000	34,000	45,000	30,000	23,000	21,000	23,000	13,000	9,000
Female	423,000	132,000	99,000	62,000	45,000	37,000	25,000	15,000	8,000
Other non-S&E occupations	2,711,000	439,000	429,000	377,000	347,000	355,000	349,000	235,000	180,000
Male	1,595,000	193,000	233,000	221,000	211,000	205,000	233,000	171,000	129,000
Female	1,116,000	246,000	195,000	156,000	137,000	151,000	116,000	64,000	51,000
Bachelor's degrees, all occupations	10,490,000	1,453,000	1,960,000	1,593,000	1,500,000	1,341,000	1,197,000	813,000	631,000
Male	5,912,000	660,000	1,080,000	894,000	862,000	745,000	702,000	553,000	414,000
Female	4,578,000	793,000	880,000	699,000	637,000	596,000	495,000	260,000	217,000
S&E occupations	2,786,000	440,000	591,000	461,000	444,000	327,000	252,000	156,000	116,000
Male	2,100,000	295,000	439,000	356,000	333,000	249,000	195,000	133,000	100,000
Female	686,000	145,000	152,000	105,000	110,000	78,000	57,000	23,000	16,000
Scientists	1,777,000	307,000	394,000	310,000	286,000	191,000	154,000	84,000	52,000
Male	1,198,000	188,000	270,000	223,000	191,000	126,000	101,000	63,000	36,000
Female	579,000	119,000	124,000	87,000	95,000	65,000	53,000	21,000	16,000
Biological/agricultural/other life scientists	182,000	52,000	34,000	15,000	23,000	22,000	18,000	12,000	5,000
Male	98,000	23,000	16,000	7,000	14,000	14,000	12,000	9,000	4,000
Female	84,000	29,000	18,000	8,000	10,000	8,000	7,000	2,000	2,000
Agricultural/food scientists	26,000	3,000	5,000	2,000	4,000	6,000	3,000	2,000	2,000
Male	16,000	2,000	2,000	1,000	3,000	3,000	2,000	1,000	2,000
Female	10,000	1,000	3,000	1,000	1,000	2,000	1,000	S	S
Biological/medical scientists	118,000	41,000	26,000	11,000	13,000	11,000	9,000	5,000	2,000
Male	52,000	16,000	12,000	4,000	5,000	6,000	4,000	4,000	1,000
Female	66,000	25,000	14,000	7,000	8,000	5,000	5,000	1,000	1,000
Environmental life scientists	29,000	4,000	2,000	2,000	6,000	5,000	5,000	4,000	1,000
Male	26,000	3,000	2,000	1,000	5,000	4,000	5,000	4,000	1,000
Female	3,000	*	S	S	1,000	S	S	S	S
Postsecondary teachers-life/related sciences	9,000	5,000	1,000	S	S	S	S	S	S
Male	4,000	2,000	S	S	S	S	S	S	S
Female	5,000	2,000	S	S	S	S	S	S	S
Computer/mathematical scientists	1,332,000	180,000	304,000	270,000	235,000	145,000	112,000	52,000	34,000
Male	947,000	129,000	223,000	202,000	161,000	95,000	76,000	37,000	24,000
Female	386,000	51,000	82,000	68,000	74,000	50,000	36,000	15,000	10,000
Computer/information scientists	1,282,000	171,000	295,000	265,000	229,000	139,000	103,000	48,000	31,000
Male	918,000	123,000	219,000	198,000	159,000	93,000	69,000	36,000	22,000
Female	364,000	48,000	76,000	68,000	70,000	47,000	34,000	13,000	9,000
Mathematical scientists	29,000	4,000	6,000	2,000	5,000	2,000	7,000	3,000	1,000
Male	16,000	3,000	S	2,000	S	1,000	5,000	S	S
Female	13,000	1,000	4,000	S	3,000	S	1,000	S	S
Postsecondary teachers-computer/ mathematical sciences	21,000	5,000	3,000	2,000	2,000	4,000	2,000	1,000	1,000

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Male	13,000	3,000	2,000	2,000	S	2,000	1,000	S	S
Female	8,000	2,000	1,000	S	S	S	1,000	S	S
Physical/related scientists	139,000	36,000	27,000	15,000	17,000	16,000	13,000	10,000	5,000
Male	90,000	17,000	17,000	9,000	12,000	13,000	9,000	9,000	4,000
Female	49,000	19,000	10,000	6,000	5,000	3,000	4,000	1,000	1,000
Chemists, except biochemists	69,000	18,000	13,000	8,000	8,000	8,000	7,000	4,000	3,000
Male	39,000	6,000	7,000	4,000	5,000	6,000	4,000	4,000	3,000
Female	30,000	12,000	6,000	4,000	3,000	2,000	2,000	1,000	*
Earth/atmospheric/ocean scientists	33,000	5,000	7,000	4,000	6,000	4,000	4,000	3,000	1,000
Male	27,000	3,000	6,000	3,000	5,000	3,000	3,000	3,000	S
Female	7,000	2,000	1,000	S	S	1,000	S	S	S
Physicists/astronomers	5,000	2,000	S	S	1,000	S	S	S	S
Male	5,000	2,000	S	S	S	S	S	S	S
Female	1,000	*	S	S	S	S	S	S	S
Postsecondary teachers-physical/related sciences	10,000	6,000	S	S	S	S	S	S	S
Male	6,000	3,000	S	S	S	S	S	S	S
Female	4,000	3,000	S	S	S	S	S	S	S
Other physical/related scientists	22,000	5,000	5,000	2,000	2,000	4,000	2,000	2,000	S
Male	14,000	3,000	2,000	S	S	3,000	1,000	1,000	S
Female	8,000	2,000	3,000	1,000	1,000	S	S	S	S
Social/related scientists	123,000	39,000	29,000	10,000	10,000	8,000	10,000	10,000	7,000
Male	63,000	20,000	14,000	5,000	4,000	4,000	4,000	8,000	4,000
Female	60,000	19,000	14,000	5,000	6,000	4,000	6,000	3,000	3,000
Economists	9,000	2,000	1,000	S	1,000	S	1,000	S	S
Male	6,000	1,000	S	S	S	S	1,000	S	S
Female	2,000	1,000	S	S	S	S	S	S	S
Political/related scientists	9,000	4,000	S	S	S	S	S	S	S
Male	3,000	1,000	S	S	S	S	S	S	S
Female	6,000	3,000	S	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	9,000	6,000	2,000	S	S	S	S	S	S
Male	4,000	4,000	S	S	S	S	S	S	S
Female	5,000	2,000	S	S	S	S	S	S	S
Psychologists	14,000	8,000	2,000	S	2,000	S	S	S	S
Male	6,000	4,000	S	S	S	S	S	S	S
Female	8,000	5,000	S	S	2,000	S	S	S	S
Sociologists/anthropologists	9,000	3,000	1,000	S	S	S	S	S	S
Male	3,000	1,000	S	S	S	S	S	S	S
Female	6,000	S	S	S	S	S	S	S	S
Other social/related scientists	74,000	15,000	22,000	8,000	6,000	4,000	8,000	7,000	4,000
Male	41,000	9,000	12,000	5,000	2,000	2,000	3,000	5,000	3,000
Female	33,000	7,000	10,000	3,000	3,000	2,000	5,000	S	S
Engineers	1,010,000	133,000	197,000	152,000	158,000	136,000	98,000	72,000	65,000
Male	902,000	107,000	169,000	133,000	142,000	123,000	94,000	70,000	64,000
Female	107,000	26,000	28,000	18,000	16,000	13,000	4,000	2,000	1,000

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Aerospace/aeronautical/astronautical engineers	53,000	6,000	6,000	6,000	12,000	10,000	5,000	4,000	4,000
Male	48,000	5,000	6,000	6,000	11,000	8,000	5,000	4,000	4,000
Female	5,000	1,000	1,000	S	1,000	2,000	S	S	S
Chemical engineers	45,000	8,000	11,000	5,000	8,000	5,000	4,000	3,000	1,000
Male	34,000	6,000	7,000	3,000	6,000	4,000	3,000	3,000	1,000
Female	11,000	2,000	3,000	2,000	1,000	1,000	S	S	S
Civil/architectural/sanitary engineers	174,000	23,000	34,000	20,000	26,000	21,000	19,000	14,000	16,000
Male	153,000	18,000	27,000	18,000	24,000	18,000	18,000	14,000	16,000
Female	21,000	5,000	7,000	2,000	2,000	3,000	1,000	S	S
Electrical/computer hardware engineers	229,000	33,000	45,000	36,000	39,000	31,000	20,000	14,000	11,000
Male	208,000	29,000	39,000	30,000	35,000	30,000	20,000	14,000	11,000
Female	21,000	4,000	6,000	6,000	4,000	1,000	S	S	S
Industrial engineers	60,000	7,000	15,000	8,000	11,000	6,000	5,000	6,000	2,000
Male	53,000	5,000	13,000	7,000	10,000	5,000	5,000	6,000	2,000
Female	7,000	2,000	2,000	1,000	1,000	1,000	S	S	S
Mechanical engineers	188,000	26,000	37,000	36,000	24,000	23,000	16,000	11,000	15,000
Male	175,000	23,000	33,000	34,000	22,000	22,000	15,000	11,000	15,000
Female	12,000	3,000	3,000	2,000	2,000	1,000	S	S	S
Postsecondary teachers-engineering	5,000	2,000	S	S	S	S	S	S	S
Male	5,000	2,000	S	S	S	S	S	S	S
Female	*	*	S	S	S	S	S	S	S
Other engineers	255,000	29,000	48,000	39,000	37,000	41,000	28,000	18,000	15,000
Male	224,000	20,000	43,000	34,000	33,000	35,000	27,000	17,000	15,000
Female	31,000	9,000	6,000	6,000	4,000	5,000	1,000	S	S
S&E-related occupations	2,956,000	374,000	595,000	469,000	421,000	414,000	324,000	208,000	152,000
Male	1,107,000	109,000	220,000	174,000	158,000	150,000	125,000	105,000	66,000
Female	1,849,000	265,000	375,000	294,000	263,000	264,000	200,000	103,000	86,000
Health-related occupations	1,829,000	248,000	379,000	297,000	253,000	264,000	198,000	106,000	84,000
Male	380,000	36,000	79,000	58,000	48,000	55,000	47,000	32,000	24,000
Female	1,449,000	212,000	300,000	238,000	205,000	209,000	152,000	74,000	60,000
S&E managers	219,000	9,000	29,000	39,000	40,000	39,000	29,000	20,000	17,000
Male	154,000	5,000	19,000	29,000	29,000	26,000	19,000	16,000	11,000
Female	65,000	4,000	10,000	9,000	11,000	13,000	10,000	3,000	5,000
S&E precollege teachers	357,000	51,000	77,000	50,000	44,000	35,000	36,000	39,000	25,000
Male	166,000	24,000	43,000	25,000	15,000	16,000	14,000	22,000	9,000
Female	191,000	27,000	34,000	25,000	29,000	19,000	22,000	18,000	16,000
S&E technicians/technologists	401,000	55,000	80,000	61,000	62,000	58,000	43,000	27,000	14,000
Male	293,000	39,000	58,000	45,000	48,000	41,000	30,000	22,000	10,000
Female	108,000	16,000	23,000	16,000	14,000	17,000	13,000	5,000	4,000
Other S&E-related occupations	149,000	11,000	30,000	23,000	22,000	19,000	18,000	15,000	12,000
Male	112,000	5,000	22,000	17,000	18,000	12,000	15,000	13,000	11,000
Female	37,000	6,000	8,000	5,000	4,000	7,000	3,000	S	S
Non-S&E occupations	4,747,000	640,000	775,000	663,000	636,000	599,000	621,000	450,000	363,000
Male	2,705,000	257,000	421,000	364,000	371,000	346,000	383,000	316,000	248,000
Female	2,042,000	383,000	354,000	299,000	265,000	254,000	239,000	135,000	115,000
Art/humanities/related occupations	160,000	18,000	25,000	33,000	20,000	12,000	28,000	14,000	10,000

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Male	71,000	9,000	16,000	14,000	9,000	5,000	8,000	7,000	4,000
Female	89,000	9,000	10,000	19,000	11,000	7,000	20,000	7,000	6,000
Management-related occupations	793,000	89,000	149,000	110,000	109,000	112,000	101,000	71,000	52,000
Male	456,000	46,000	81,000	56,000	60,000	64,000	63,000	45,000	40,000
Female	338,000	43,000	69,000	54,000	48,000	48,000	39,000	26,000	12,000
Non-S&E managers	456,000	6,000	43,000	64,000	86,000	76,000	82,000	53,000	45,000
Male	368,000	4,000	30,000	52,000	69,000	60,000	68,000	44,000	40,000
Female	88,000	2,000	13,000	12,000	17,000	16,000	13,000	9,000	5,000
Non-S&E postsecondary teachers	26,000	9,000	5,000	4,000	1,000	1,000	2,000	3,000	S
Male	13,000	4,000	3,000	1,000	S	1,000	S	2,000	S
Female	13,000	4,000	2,000	3,000	S	S	S	1,000	S
Non-S&E precollege/other teachers	304,000	54,000	45,000	47,000	43,000	40,000	36,000	17,000	21,000
Male	56,000	9,000	12,000	7,000	4,000	6,000	9,000	S	5,000
Female	248,000	45,000	33,000	39,000	39,000	34,000	27,000	14,000	16,000
Sales/marketing occupations	980,000	113,000	172,000	127,000	125,000	109,000	121,000	117,000	96,000
Male	653,000	54,000	114,000	74,000	84,000	81,000	79,000	95,000	71,000
Female	327,000	58,000	58,000	53,000	41,000	28,000	42,000	22,000	25,000
Social services/related occupations	240,000	69,000	57,000	33,000	25,000	18,000	18,000	11,000	8,000
Male	71,000	13,000	19,000	12,000	7,000	5,000	8,000	5,000	3,000
Female	169,000	57,000	39,000	21,000	18,000	13,000	10,000	6,000	5,000
Other non-S&E occupations	1,789,000	282,000	277,000	245,000	226,000	231,000	234,000	163,000	130,000
Male	1,018,000	117,000	147,000	146,000	137,000	124,000	147,000	114,000	85,000
Female	771,000	165,000	131,000	98,000	89,000	107,000	87,000	49,000	45,000
Master's degrees, all occupations	4,979,000	1,123,000	1,015,000	760,000	625,000	528,000	475,000	298,000	155,000
Male	2,756,000	527,000	523,000	414,000	356,000	299,000	303,000	214,000	121,000
Female	2,223,000	596,000	492,000	346,000	270,000	229,000	172,000	84,000	35,000
S&E occupations	1,424,000	362,000	301,000	231,000	175,000	132,000	103,000	79,000	40,000
Male	1,011,000	232,000	205,000	164,000	130,000	98,000	80,000	70,000	33,000
Female	412,000	130,000	96,000	67,000	45,000	34,000	24,000	10,000	7,000
Scientists	974,000	252,000	212,000	164,000	116,000	90,000	67,000	51,000	21,000
Male	617,000	143,000	128,000	107,000	76,000	60,000	45,000	42,000	16,000
Female	357,000	109,000	83,000	57,000	40,000	31,000	22,000	9,000	5,000
Biological/agricultural/other life scientists	98,000	32,000	18,000	12,000	12,000	9,000	8,000	5,000	2,000
Male	57,000	17,000	8,000	7,000	8,000	5,000	6,000	4,000	2,000
Female	41,000	15,000	9,000	5,000	4,000	5,000	1,000	1,000	1,000
Agricultural/food scientists	13,000	3,000	2,000	1,000	3,000	1,000	2,000	S	S
Male	9,000	2,000	S	S	2,000	1,000	S	S	S
Female	3,000	1,000	S	S	S	S	S	S	S
Biological/medical scientists	63,000	22,000	12,000	10,000	6,000	6,000	3,000	1,000	2,000
Male	33,000	11,000	6,000	6,000	3,000	2,000	2,000	S	S
Female	30,000	11,000	7,000	4,000	3,000	4,000	1,000	S	1,000
Environmental life scientists	9,000	2,000	1,000	S	1,000	S	S	S	S
Male	8,000	1,000	S	S	1,000	S	S	S	S
Female	1,000	*	S	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	13,000	5,000	3,000	1,000	S	S	1,000	1,000	S
Male	7,000	3,000	S	S	S	S	S	S	S

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Female	7,000	3,000	2,000	1,000	S	S	S	S	S
Computer/mathematical scientists	578,000	140,000	142,000	108,000	69,000	47,000	37,000	27,000	8,000
Male	414,000	93,000	99,000	79,000	51,000	35,000	27,000	23,000	7,000
Female	164,000	47,000	43,000	29,000	18,000	12,000	10,000	5,000	1,000
Computer/information scientists	515,000	127,000	127,000	99,000	63,000	41,000	31,000	22,000	5,000
Male	378,000	85,000	93,000	74,000	48,000	31,000	24,000	18,000	5,000
Female	137,000	42,000	34,000	24,000	16,000	10,000	7,000	4,000	1,000
Mathematical scientists	25,000	6,000	6,000	4,000	3,000	3,000	2,000	2,000	S
Male	16,000	3,000	3,000	2,000	1,000	2,000	2,000	2,000	S
Female	9,000	2,000	3,000	2,000	S	1,000	S	S	S
Postsecondary teachers-computer/ mathematical sciences	38,000	7,000	9,000	5,000	3,000	4,000	4,000	4,000	2,000
Male	20,000	5,000	3,000	2,000	2,000	2,000	2,000	3,000	2,000
Female	18,000	2,000	6,000	3,000	2,000	2,000	3,000	1,000	S
Physical/related scientists	83,000	20,000	15,000	13,000	10,000	9,000	6,000	6,000	4,000
Male	56,000	10,000	9,000	8,000	7,000	7,000	4,000	6,000	4,000
Female	27,000	10,000	6,000	5,000	3,000	1,000	1,000	1,000	S
Chemists, except biochemists	25,000	6,000	6,000	3,000	3,000	2,000	2,000	2,000	1,000
Male	14,000	3,000	3,000	1,000	2,000	2,000	1,000	2,000	S
Female	11,000	3,000	3,000	2,000	S	S	1,000	S	S
Earth/atmospheric/ocean scientists	27,000	5,000	3,000	7,000	4,000	4,000	2,000	2,000	2,000
Male	22,000	2,000	2,000	5,000	4,000	4,000	2,000	1,000	2,000
Female	5,000	2,000	S	1,000	S	S	S	S	S
Physicists/astronomers	8,000	3,000	1,000	S	S	1,000	S	S	S
Male	7,000	3,000	1,000	S	S	1,000	S	S	S
Female	1,000	*	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	12,000	4,000	3,000	1,000	S	S	1,000	1,000	1,000
Male	6,000	1,000	S	S	S	S	1,000	1,000	S
Female	6,000	2,000	S	S	S	S	S	S	S
Other physical/related scientists	10,000	2,000	3,000	1,000	2,000	S	S	S	S
Male	6,000	1,000	2,000	S	S	S	S	S	S
Female	4,000	1,000	S	S	S	S	S	S	S
Social/related scientists	215,000	60,000	37,000	32,000	25,000	25,000	17,000	13,000	7,000
Male	91,000	23,000	12,000	13,000	10,000	13,000	7,000	10,000	4,000
Female	124,000	37,000	25,000	19,000	15,000	12,000	10,000	3,000	3,000
Economists	17,000	5,000	3,000	4,000	1,000	2,000	1,000	1,000	S
Male	11,000	2,000	2,000	2,000	S	S	S	1,000	S
Female	6,000	3,000	S	S	S	S	S	S	S
Political/related scientists	4,000	2,000	S	S	S	S	S	S	S
Male	3,000	1,000	S	S	S	S	S	S	S
Female	1,000	1,000	S	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	30,000	10,000	5,000	3,000	3,000	2,000	3,000	3,000	1,000
Male	17,000	5,000	3,000	2,000	S	1,000	2,000	2,000	1,000
Female	13,000	4,000	3,000	1,000	2,000	1,000	1,000	1,000	S
Psychologists	100,000	25,000	19,000	14,000	11,000	13,000	9,000	5,000	3,000

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Male	26,000	6,000	2,000	3,000	3,000	5,000	3,000	3,000	1,000
Female	73,000	19,000	17,000	12,000	7,000	8,000	6,000	2,000	2,000
Sociologists/anthropologists	8,000	2,000	2,000	S	S	1,000	S	S	S
Male	4,000	*	1,000	S	S	S	S	S	S
Female	4,000	2,000	S	S	S	S	S	S	S
Other social/related scientists	56,000	16,000	7,000	10,000	9,000	6,000	3,000	4,000	S
Male	30,000	8,000	3,000	5,000	4,000	4,000	S	3,000	S
Female	26,000	8,000	4,000	5,000	5,000	2,000	2,000	S	S
Engineers	450,000	110,000	89,000	66,000	59,000	42,000	36,000	28,000	19,000
Male	394,000	89,000	77,000	57,000	54,000	38,000	34,000	28,000	17,000
Female	56,000	21,000	13,000	10,000	5,000	3,000	2,000	S	2,000
Aerospace/aeronautical/astronautical engineers	37,000	7,000	8,000	5,000	4,000	4,000	3,000	2,000	4,000
Male	32,000	6,000	6,000	3,000	4,000	4,000	3,000	2,000	4,000
Female	4,000	1,000	S	S	S	S	S	S	S
Chemical engineers	21,000	5,000	3,000	3,000	3,000	1,000	3,000	1,000	1,000
Male	17,000	4,000	3,000	2,000	2,000	1,000	3,000	1,000	1,000
Female	3,000	2,000	S	1,000	S	S	S	S	S
Civil/architectural/sanitary engineers	68,000	15,000	13,000	9,000	7,000	7,000	6,000	6,000	4,000
Male	58,000	10,000	11,000	8,000	6,000	7,000	6,000	6,000	4,000
Female	10,000	5,000	2,000	1,000	1,000	S	S	S	S
Electrical/computer hardware engineers	118,000	27,000	26,000	20,000	17,000	11,000	8,000	6,000	4,000
Male	105,000	22,000	23,000	17,000	16,000	10,000	8,000	6,000	3,000
Female	13,000	4,000	3,000	3,000	1,000	S	S	S	S
Industrial engineers	23,000	8,000	6,000	3,000	1,000	1,000	2,000	1,000	S
Male	20,000	6,000	5,000	3,000	1,000	S	2,000	1,000	S
Female	3,000	2,000	1,000	S	S	S	S	S	S
Mechanical engineers	74,000	23,000	14,000	12,000	8,000	7,000	5,000	3,000	2,000
Male	69,000	20,000	13,000	12,000	8,000	7,000	5,000	3,000	2,000
Female	5,000	2,000	1,000	1,000	S	S	S	S	S
Postsecondary teachers-engineering	8,000	3,000	S	S	1,000	S	S	S	S
Male	6,000	2,000	S	S	S	S	S	S	S
Female	2,000	1,000	S	S	S	S	S	S	S
Other engineers	102,000	22,000	19,000	13,000	18,000	9,000	9,000	9,000	3,000
Male	87,000	17,000	15,000	11,000	17,000	8,000	8,000	9,000	2,000
Female	15,000	5,000	4,000	2,000	1,000	1,000	S	S	S
S&E-related occupations	1,228,000	325,000	259,000	179,000	159,000	127,000	97,000	56,000	27,000
Male	485,000	108,000	93,000	70,000	68,000	50,000	40,000	35,000	21,000
Female	743,000	216,000	165,000	109,000	91,000	76,000	57,000	21,000	6,000
Health-related occupations	599,000	177,000	141,000	82,000	74,000	58,000	41,000	18,000	8,000
Male	120,000	32,000	26,000	18,000	18,000	10,000	5,000	6,000	5,000
Female	479,000	145,000	115,000	64,000	56,000	48,000	36,000	12,000	3,000
S&E managers	135,000	19,000	27,000	28,000	21,000	18,000	11,000	9,000	2,000
Male	93,000	12,000	18,000	19,000	13,000	12,000	9,000	8,000	2,000
Female	42,000	7,000	9,000	9,000	8,000	6,000	2,000	1,000	S
S&E precollege teachers	341,000	104,000	57,000	49,000	37,000	33,000	32,000	19,000	9,000
Male	168,000	49,000	29,000	20,000	19,000	13,000	17,000	15,000	7,000

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Female	173,000	55,000	27,000	29,000	19,000	20,000	16,000	5,000	2,000
S&E technicians/technologists	89,000	17,000	23,000	10,000	16,000	8,000	7,000	6,000	2,000
Male	56,000	11,000	13,000	6,000	11,000	7,000	4,000	3,000	S
Female	33,000	6,000	10,000	5,000	5,000	1,000	2,000	3,000	1,000
Other S&E-related occupations	62,000	7,000	11,000	10,000	10,000	10,000	4,000	4,000	6,000
Male	47,000	4,000	7,000	7,000	6,000	8,000	4,000	3,000	6,000
Female	15,000	3,000	4,000	2,000	3,000	2,000	S	S	S
Non-S&E occupations	2,328,000	436,000	456,000	350,000	292,000	269,000	275,000	162,000	89,000
Male	1,260,000	186,000	225,000	180,000	158,000	151,000	184,000	109,000	67,000
Female	1,068,000	250,000	231,000	170,000	134,000	118,000	91,000	53,000	22,000
Art/humanities/related occupations	74,000	7,000	17,000	16,000	9,000	7,000	7,000	6,000	5,000
Male	37,000	4,000	7,000	7,000	3,000	4,000	5,000	S	4,000
Female	36,000	4,000	10,000	9,000	5,000	S	S	S	S
Management-related occupations	457,000	73,000	92,000	68,000	63,000	53,000	57,000	31,000	21,000
Male	285,000	36,000	52,000	42,000	42,000	32,000	42,000	22,000	17,000
Female	172,000	37,000	40,000	26,000	21,000	20,000	15,000	9,000	4,000
Non-S&E managers	362,000	44,000	61,000	64,000	53,000	52,000	52,000	21,000	15,000
Male	274,000	29,000	42,000	49,000	41,000	38,000	43,000	18,000	13,000
Female	88,000	14,000	19,000	15,000	12,000	14,000	9,000	3,000	S
Non-S&E postsecondary teachers	63,000	21,000	11,000	7,000	6,000	3,000	9,000	3,000	3,000
Male	32,000	11,000	4,000	2,000	4,000	1,000	6,000	3,000	2,000
Female	31,000	10,000	7,000	5,000	2,000	2,000	3,000	S	S
Non-S&E precollege/other teachers	283,000	73,000	52,000	37,000	34,000	32,000	33,000	17,000	4,000
Male	66,000	18,000	11,000	8,000	3,000	6,000	10,000	7,000	S
Female	217,000	55,000	41,000	30,000	31,000	25,000	23,000	10,000	2,000
Sales/marketing occupations	304,000	42,000	66,000	40,000	30,000	38,000	42,000	28,000	17,000
Male	207,000	27,000	45,000	26,000	16,000	29,000	31,000	21,000	13,000
Female	96,000	16,000	21,000	14,000	14,000	9,000	11,000	6,000	4,000
Social services/related occupations	353,000	94,000	81,000	53,000	41,000	32,000	29,000	15,000	8,000
Male	107,000	21,000	22,000	13,000	14,000	10,000	14,000	7,000	6,000
Female	246,000	74,000	59,000	39,000	27,000	22,000	15,000	8,000	2,000
Other non-S&E occupations	432,000	80,000	76,000	65,000	56,000	53,000	46,000	41,000	15,000
Male	250,000	40,000	42,000	33,000	35,000	30,000	32,000	28,000	11,000
Female	181,000	40,000	35,000	32,000	21,000	23,000	13,000	13,000	5,000
Doctorate degrees, all occupations	885,000	167,000	168,000	133,000	109,000	108,000	81,000	76,000	42,000
Male	627,000	99,000	110,000	91,000	74,000	80,000	67,000	67,000	39,000
Female	258,000	69,000	58,000	42,000	35,000	29,000	14,000	9,000	3,000
S&E occupations	558,000	115,000	111,000	86,000	68,000	60,000	50,000	41,000	26,000
Male	409,000	72,000	75,000	61,000	50,000	46,000	42,000	37,000	25,000
Female	149,000	43,000	36,000	25,000	18,000	13,000	8,000	5,000	1,000
Scientists	465,000	95,000	90,000	72,000	58,000	52,000	42,000	33,000	21,000
Male	324,000	56,000	57,000	49,000	40,000	39,000	34,000	29,000	20,000
Female	141,000	40,000	33,000	23,000	17,000	13,000	8,000	5,000	1,000
Biological/agricultural/other life scientists	148,000	33,000	31,000	25,000	19,000	15,000	11,000	9,000	5,000
Male	99,000	19,000	19,000	17,000	13,000	11,000	9,000	8,000	5,000
Female	48,000	15,000	12,000	8,000	6,000	3,000	2,000	1,000	*
Agricultural/food scientists	9,000	1,000	1,000	2,000	2,000	1,000	1,000	1,000	*

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Male	8,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	*
Female	2,000	*	*	*	*	*	*	S	S
Biological/medical scientists	103,000	29,000	23,000	17,000	12,000	9,000	6,000	4,000	3,000
Male	67,000	16,000	14,000	11,000	8,000	7,000	4,000	3,000	3,000
Female	36,000	13,000	9,000	5,000	4,000	2,000	1,000	1,000	*
Environmental life scientists	2,000	*	*	1,000	*	S	S	S	S
Male	1,000	*	*	*	*	S	S	S	S
Female	*	*	S	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	34,000	3,000	6,000	6,000	5,000	4,000	4,000	4,000	2,000
Male	24,000	1,000	3,000	4,000	3,000	3,000	3,000	3,000	2,000
Female	11,000	2,000	3,000	2,000	2,000	1,000	1,000	1,000	*
Computer/mathematical scientists	86,000	20,000	18,000	13,000	11,000	9,000	7,000	6,000	3,000
Male	70,000	14,000	14,000	11,000	9,000	7,000	6,000	6,000	3,000
Female	17,000	6,000	4,000	2,000	1,000	2,000	1,000	*	*
Computer/information scientists	43,000	9,000	11,000	6,000	5,000	5,000	3,000	3,000	1,000
Male	36,000	8,000	9,000	6,000	5,000	4,000	3,000	2,000	1,000
Female	7,000	1,000	2,000	1,000	*	1,000	*	S	S
Mathematical scientists	11,000	3,000	2,000	2,000	1,000	1,000	1,000	1,000	*
Male	9,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000	*
Female	2,000	1,000	1,000	*	*	S	*	S	S
Postsecondary teachers-computer/mathematical sciences	33,000	8,000	5,000	4,000	4,000	3,000	3,000	3,000	2,000
Male	25,000	4,000	4,000	3,000	4,000	3,000	2,000	3,000	2,000
Female	8,000	4,000	1,000	1,000	1,000	*	*	*	S
Physical/related scientists	91,000	16,000	16,000	14,000	11,000	10,000	8,000	7,000	7,000
Male	77,000	13,000	13,000	11,000	10,000	10,000	8,000	6,000	7,000
Female	13,000	4,000	3,000	2,000	2,000	1,000	1,000	1,000	*
Chemists, except biochemists	30,000	6,000	6,000	5,000	3,000	4,000	3,000	2,000	1,000
Male	25,000	5,000	5,000	4,000	3,000	3,000	2,000	2,000	1,000
Female	5,000	1,000	1,000	1,000	1,000	*	S	*	S
Earth/atmospheric/ocean scientists	10,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
Male	9,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Female	1,000	*	*	*	*	S	*	S	S
Physicists/astronomers	17,000	4,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000
Male	15,000	3,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000
Female	1,000	1,000	*	*	S	S	S	S	S
Postsecondary teachers-physical/related sciences	30,000	4,000	5,000	4,000	4,000	3,000	3,000	3,000	3,000
Male	25,000	3,000	4,000	3,000	4,000	3,000	2,000	3,000	3,000
Female	5,000	1,000	1,000	1,000	1,000	*	*	*	*
Other physical/related scientists	4,000	1,000	1,000	1,000	*	1,000	*	*	*
Male	3,000	*	1,000	1,000	*	1,000	*	*	*
Female	1,000	*	*	*	S	S	S	S	S
Social/related scientists	140,000	26,000	25,000	21,000	17,000	19,000	17,000	11,000	5,000
Male	77,000	11,000	11,000	10,000	9,000	12,000	12,000	9,000	4,000
Female	62,000	15,000	14,000	11,000	8,000	7,000	5,000	2,000	1,000

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Economists	9,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	*
Male	7,000	1,000	1,000	1,000	*	1,000	1,000	1,000	*
Female	2,000	*	*	*	*	*	*	S	S
Political/related scientists	2,000	*	*	*	S	S	*	S	*
Male	1,000	*	*	S	S	S	S	S	*
Female	*	*	*	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	64,000	12,000	11,000	9,000	7,000	8,000	8,000	6,000	3,000
Male	40,000	6,000	6,000	4,000	4,000	6,000	6,000	5,000	2,000
Female	24,000	6,000	5,000	4,000	3,000	3,000	2,000	1,000	*
Psychologists	55,000	9,000	9,000	9,000	8,000	8,000	6,000	3,000	2,000
Male	24,000	2,000	3,000	3,000	3,000	4,000	4,000	2,000	1,000
Female	30,000	7,000	6,000	6,000	4,000	4,000	2,000	1,000	*
Sociologists/anthropologists	5,000	2,000	1,000	*	1,000	*	*	*	S
Male	3,000	*	*	*	*	*	*	*	S
Female	3,000	1,000	*	*	*	*	*	S	S
Other social/related scientists	6,000	1,000	2,000	1,000	1,000	*	1,000	*	*
Male	3,000	1,000	1,000	*	*	*	*	*	*
Female	3,000	1,000	1,000	*	*	*	*	*	S
Engineers	93,000	19,000	21,000	14,000	10,000	7,000	8,000	8,000	5,000
Male	85,000	16,000	19,000	12,000	9,000	7,000	8,000	8,000	5,000
Female	9,000	3,000	3,000	1,000	1,000	*	*	S	S
Aerospace/aeronautical/astronautical engineers	5,000	1,000	1,000	1,000	1,000	*	*	1,000	1,000
Male	5,000	1,000	1,000	1,000	1,000	*	*	1,000	1,000
Female	*	S	S	S	S	S	S	S	S
Chemical engineers	9,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000	*
Male	8,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000	*
Female	1,000	*	*	*	S	S	S	S	S
Civil/architectural/sanitary engineers	5,000	1,000	1,000	1,000	1,000	*	*	*	*
Male	5,000	1,000	1,000	1,000	1,000	*	*	*	*
Female	*	S	*	S	S	S	S	S	S
Electrical/computer hardware engineers	21,000	5,000	6,000	3,000	2,000	1,000	2,000	2,000	1,000
Male	19,000	4,000	5,000	3,000	2,000	1,000	1,000	2,000	1,000
Female	2,000	1,000	1,000	*	S	S	S	S	S
Industrial engineers	2,000	1,000	*	*	*	S	S	S	S
Male	2,000	S	*	*	S	S	S	S	S
Female	*	*	S	S	S	S	S	S	S
Mechanical engineers	10,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	*
Male	9,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	*
Female	1,000	*	*	*	S	S	S	S	S
Postsecondary teachers-engineering	20,000	3,000	3,000	3,000	3,000	2,000	2,000	2,000	2,000
Male	17,000	2,000	3,000	3,000	3,000	2,000	2,000	2,000	2,000
Female	2,000	1,000	*	*	*	*	S	S	S
Other engineers	22,000	5,000	6,000	3,000	2,000	2,000	2,000	2,000	1,000
Male	19,000	4,000	5,000	2,000	2,000	2,000	2,000	2,000	1,000
Female	3,000	1,000	1,000	*	*	S	S	S	S

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
S&E-related occupations	105,000	20,000	18,000	16,000	14,000	17,000	8,000	9,000	4,000
Male	63,000	8,000	9,000	9,000	7,000	11,000	7,000	8,000	4,000
Female	42,000	12,000	9,000	6,000	6,000	6,000	1,000	1,000	*
Health-related occupations	57,000	14,000	8,000	8,000	7,000	9,000	4,000	4,000	3,000
Male	26,000	5,000	3,000	3,000	3,000	4,000	3,000	3,000	2,000
Female	30,000	10,000	5,000	5,000	4,000	5,000	1,000	1,000	*
S&E managers	26,000	1,000	4,000	5,000	5,000	4,000	3,000	4,000	1,000
Male	21,000	1,000	3,000	4,000	4,000	3,000	3,000	3,000	1,000
Female	5,000	1,000	1,000	1,000	1,000	1,000	*	S	S
S&E precollege teachers	12,000	2,000	3,000	2,000	1,000	2,000	1,000	1,000	*
Male	7,000	1,000	1,000	1,000	*	2,000	1,000	1,000	*
Female	5,000	1,000	2,000	1,000	1,000	*	*	S	S
S&E technicians/technologists	8,000	2,000	2,000	1,000	1,000	*	*	*	*
Male	6,000	1,000	2,000	1,000	1,000	*	*	*	*
Female	1,000	*	1,000	*	S	S	S	S	S
Other S&E-related occupations	3,000	S	S	S	S	S	S	S	S
Male	2,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Non-S&E occupations	222,000	33,000	39,000	32,000	28,000	32,000	22,000	26,000	11,000
Male	155,000	19,000	25,000	21,000	17,000	22,000	18,000	23,000	10,000
Female	67,000	14,000	14,000	11,000	10,000	10,000	4,000	3,000	1,000
Art/humanities/related occupations	10,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000
Male	6,000	1,000	1,000	1,000	*	*	*	1,000	1,000
Female	4,000	1,000	1,000	1,000	*	*	*	*	*
Management-related occupations	31,000	6,000	6,000	4,000	4,000	5,000	2,000	3,000	2,000
Male	23,000	4,000	4,000	3,000	2,000	3,000	2,000	2,000	2,000
Female	9,000	2,000	2,000	1,000	2,000	2,000	1,000	*	S
Non-S&E managers	74,000	6,000	11,000	11,000	9,000	15,000	11,000	9,000	3,000
Male	54,000	4,000	7,000	7,000	6,000	11,000	9,000	8,000	3,000
Female	20,000	2,000	4,000	3,000	3,000	3,000	2,000	1,000	*
Non-S&E postsecondary teachers	46,000	11,000	12,000	5,000	6,000	5,000	3,000	3,000	1,000
Male	30,000	6,000	8,000	3,000	4,000	3,000	2,000	3,000	1,000
Female	16,000	5,000	4,000	2,000	2,000	2,000	1,000	*	*
Non-S&E precollege/other teachers	8,000	1,000	1,000	2,000	1,000	1,000	S	2,000	S
Male	4,000	S	1,000	*	1,000	S	S	2,000	S
Female	4,000	*	1,000	2,000	*	1,000	S	S	S
Sales/marketing occupations	18,000	4,000	2,000	1,000	3,000	1,000	3,000	3,000	2,000
Male	14,000	3,000	1,000	1,000	2,000	1,000	3,000	2,000	1,000
Female	4,000	1,000	*	*	1,000	*	*	S	S
Social services/related occupations	12,000	2,000	3,000	4,000	1,000	1,000	1,000	1,000	*
Male	9,000	1,000	3,000	3,000	*	1,000	*	1,000	*
Female	3,000	1,000	1,000	*	*	*	*	S	S

TABLE 19. Employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Other non-S&E occupations	23,000	2,000	3,000	3,000	3,000	3,000	2,000	4,000	2,000
Male	15,000	1,000	1,000	2,000	2,000	2,000	1,000	4,000	2,000
Female	8,000	2,000	2,000	1,000	1,000	1,000	1,000	*	S

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
All degree levels and occupations[b]	18,021,000	2,979,000	3,398,000	2,708,000	2,481,000	2,230,000	1,945,000	1,305,000	975,000
American Indian/Alaska Native	73,000	14,000	13,000	13,000	10,000	9,000	8,000	3,000	3,000
Asian	1,719,000	375,000	358,000	285,000	209,000	178,000	131,000	104,000	79,000
Black	1,035,000	224,000	212,000	165,000	142,000	123,000	99,000	48,000	22,000
Hispanic	937,000	199,000	202,000	154,000	137,000	111,000	76,000	27,000	30,000
White	13,957,000	2,095,000	2,532,000	2,046,000	1,954,000	1,785,000	1,606,000	1,108,000	832,000
Other	300,000	71,000	81,000	45,000	29,000	25,000	25,000	15,000	10,000
S&E occupations	4,817,000	922,000	1,013,000	784,000	693,000	529,000	409,000	279,000	187,000
American Indian/Alaska Native	15,000	2,000	4,000	2,000	5,000	1,000	1,000	*	S
Asian	684,000	197,000	177,000	125,000	72,000	45,000	29,000	22,000	16,000
Black	208,000	49,000	47,000	35,000	28,000	22,000	18,000	6,000	3,000
Hispanic	210,000	53,000	55,000	35,000	24,000	19,000	11,000	7,000	6,000
White	3,621,000	601,000	710,000	576,000	556,000	435,000	345,000	239,000	160,000
Other	80,000	20,000	21,000	11,000	9,000	7,000	6,000	4,000	2,000
Scientists	3,262,000	659,000	705,000	552,000	466,000	344,000	267,000	171,000	98,000
American Indian/Alaska Native	10,000	2,000	3,000	1,000	3,000	1,000	S	S	S
Asian	489,000	144,000	136,000	96,000	51,000	27,000	16,000	11,000	9,000
Black	155,000	38,000	35,000	28,000	20,000	15,000	13,000	4,000	2,000
Hispanic	130,000	37,000	34,000	23,000	13,000	10,000	6,000	5,000	3,000
White	2,424,000	423,000	482,000	397,000	374,000	286,000	229,000	149,000	84,000
Other	54,000	15,000	14,000	7,000	6,000	5,000	3,000	2,000	1,000
Biological/agricultural/other life scientists	444,000	118,000	86,000	54,000	56,000	49,000	38,000	26,000	16,000
American Indian/Alaska Native	3,000	1,000	S	S	S	S	S	S	S
Asian	67,000	23,000	16,000	9,000	8,000	4,000	3,000	2,000	2,000
Black	13,000	5,000	2,000	2,000	1,000	1,000	1,000	1,000	*
Hispanic	19,000	5,000	6,000	3,000	2,000	1,000	*	*	1,000
White	336,000	82,000	60,000	39,000	43,000	42,000	34,000	23,000	13,000
Other	6,000	2,000	2,000	1,000	1,000	1,000	*	S	S
Agricultural/food scientists	48,000	7,000	8,000	4,000	9,000	8,000	6,000	4,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	1,000	*	*	1,000	1,000	1,000	*	S
Black	1,000	*	*	1,000	S	S	S	S	S
Hispanic	2,000	*	1,000	*	S	S	S	S	S
White	40,000	5,000	6,000	3,000	8,000	7,000	5,000	3,000	2,000
Other	*	S	S	S	S	S	S	S	S
Biological/medical scientists	298,000	92,000	64,000	39,000	33,000	29,000	19,000	11,000	10,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S	S
Asian	57,000	20,000	15,000	8,000	7,000	3,000	2,000	1,000	1,000
Black	9,000	4,000	2,000	1,000	*	1,000	*	S	S
Hispanic	14,000	4,000	4,000	2,000	1,000	1,000	*	S	S
White	212,000	61,000	43,000	27,000	23,000	24,000	16,000	9,000	8,000
Other	4,000	2,000	1,000	*	*	S	S	S	S
Environmental life scientists	39,000	6,000	4,000	3,000	7,000	6,000	7,000	6,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	1,000	S	S	S	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S
White	37,000	5,000	3,000	2,000	6,000	6,000	7,000	6,000	1,000
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	57,000	13,000	10,000	8,000	7,000	5,000	6,000	5,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Asian	5,000	2,000	1,000	*	1,000	*	*	S	S
Black	1,000	*	*	*	*	*	*	S	S
Hispanic	2,000	*	*	*	*	S	*	S	S
White	47,000	10,000	8,000	7,000	5,000	5,000	5,000	5,000	2,000
Other	1,000	S	*	*	S	S	S	S	S
Computer/mathematical scientists	2,008,000	340,000	467,000	391,000	317,000	204,000	157,000	87,000	45,000
American Indian/Alaska Native	3,000	1,000	1,000	S	S	S	S	S	S
Asian	357,000	97,000	107,000	79,000	38,000	19,000	9,000	6,000	3,000
Black	106,000	23,000	25,000	22,000	15,000	10,000	8,000	2,000	1,000
Hispanic	76,000	20,000	21,000	14,000	8,000	6,000	4,000	2,000	1,000
White	1,432,000	194,000	303,000	270,000	251,000	166,000	134,000	75,000	40,000
Other	34,000	7,000	10,000	6,000	5,000	4,000	2,000	1,000	S
Computer/information scientists	1,849,000	308,000	434,000	371,000	299,000	188,000	138,000	73,000	38,000
American Indian/Alaska Native	3,000	*	1,000	S	S	S	S	S	S
Asian	338,000	91,000	103,000	76,000	36,000	18,000	8,000	6,000	2,000
Black	95,000	19,000	22,000	21,000	14,000	9,000	7,000	2,000	S
Hispanic	71,000	19,000	20,000	14,000	8,000	6,000	3,000	2,000	1,000
White	1,309,000	174,000	279,000	255,000	236,000	152,000	118,000	63,000	33,000
Other	32,000	6,000	10,000	6,000	5,000	4,000	1,000	1,000	S
Mathematical scientists	67,000	12,000	15,000	8,000	9,000	6,000	10,000	5,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	8,000	3,000	2,000	1,000	1,000	*	1,000	S	S
Black	4,000	1,000	1,000	S	S	S	S	S	S
Hispanic	2,000	1,000	*	S	S	S	S	S	S
White	53,000	7,000	11,000	7,000	8,000	5,000	8,000	5,000	2,000
Other	1,000	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	92,000	20,000	17,000	12,000	9,000	11,000	9,000	8,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	11,000	3,000	2,000	2,000	1,000	1,000	*	1,000	*
Black	7,000	3,000	2,000	1,000	*	1,000	*	*	S
Hispanic	4,000	1,000	1,000	*	*	1,000	S	S	S
White	70,000	13,000	12,000	9,000	7,000	9,000	8,000	7,000	5,000
Other	1,000	S	S	S	S	S	S	S	S
Physical/related scientists	315,000	72,000	58,000	42,000	40,000	36,000	28,000	23,000	17,000
American Indian/Alaska Native	1,000	*	*	S	S	S	S	S	S
Asian	38,000	12,000	8,000	4,000	4,000	3,000	3,000	2,000	3,000
Black	9,000	2,000	1,000	1,000	1,000	1,000	1,000	S	S
Hispanic	13,000	4,000	2,000	3,000	1,000	1,000	1,000	1,000	*
White	249,000	51,000	46,000	34,000	34,000	30,000	22,000	20,000	13,000
Other	5,000	2,000	1,000	1,000	*	*	1,000	S	S
Chemists, except biochemists	124,000	30,000	25,000	16,000	15,000	14,000	11,000	8,000	5,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	23,000	6,000	6,000	2,000	2,000	2,000	2,000	1,000	1,000
Black	6,000	1,000	1,000	1,000	1,000	1,000	1,000	S	S
Hispanic	6,000	2,000	*	1,000	*	1,000	1,000	S	S
White	87,000	20,000	17,000	11,000	11,000	10,000	8,000	6,000	4,000
Other	3,000	1,000	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	71,000	11,000	11,000	12,000	12,000	9,000	7,000	5,000	3,000
American Indian/Alaska Native	*	*	S	S	S	S	S	S	S
Asian	3,000	1,000	*	*	*	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	1,000	*	S	S	S	S	S	S	S
Hispanic	2,000	1,000	1,000	1,000	*	S	*	S	S
White	65,000	9,000	10,000	11,000	12,000	9,000	6,000	5,000	3,000
Other	1,000	*	S	S	S	S	S	S	S
Physicists/astronomers	31,000	9,000	5,000	3,000	4,000	3,000	2,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	2,000	1,000	1,000	1,000	*	*	S	S
Black	1,000	S	S	S	S	S	S	S	S
Hispanic	1,000	*	*	S	S	S	S	S	S
White	24,000	6,000	3,000	2,000	3,000	3,000	2,000	3,000	2,000
Other	*	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/related sciences	52,000	14,000	9,000	6,000	6,000	4,000	4,000	4,000	5,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	2,000	1,000	*	*	*	*	*	1,000
Black	1,000	*	*	*	*	S	*	S	S
Hispanic	2,000	1,000	*	*	*	*	S	S	S
White	42,000	10,000	8,000	5,000	5,000	3,000	3,000	4,000	4,000
Other	1,000	*	S	*	S	S	S	S	S
Other physical/related scientists	37,000	8,000	9,000	4,000	4,000	6,000	3,000	3,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	1,000	*	S	S	S	S	S	S
Black	1,000	S	S	S	S	S	S	S	S
Hispanic	2,000	*	S	S	S	S	S	S	S
White	31,000	6,000	7,000	4,000	3,000	5,000	3,000	2,000	*
Other	*	S	S	S	S	S	S	S	S
Social/related scientists	495,000	129,000	95,000	65,000	54,000	54,000	44,000	34,000	19,000
American Indian/Alaska Native	3,000	*	1,000	S	S	S	S	S	S
Asian	27,000	12,000	5,000	4,000	2,000	1,000	1,000	1,000	2,000
Black	28,000	8,000	7,000	3,000	3,000	3,000	3,000	1,000	S
Hispanic	22,000	8,000	5,000	3,000	2,000	1,000	1,000	1,000	S
White	406,000	96,000	74,000	54,000	47,000	48,000	39,000	31,000	17,000
Other	8,000	4,000	2,000	*	*	*	1,000	*	S
Economists	35,000	9,000	5,000	6,000	2,000	4,000	3,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	2,000	1,000	1,000	S	S	S	S	S
Black	3,000	1,000	*	S	S	S	S	S	S
Hispanic	1,000	*	*	S	S	S	S	S	S
White	27,000	6,000	4,000	5,000	2,000	3,000	2,000	3,000	2,000
Other	*	S	S	S	S	S	S	S	S
Political/related scientists	14,000	6,000	2,000	1,000	1,000	1,000	*	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	*	S	S	S	S	S	S	S	S
Black	1,000	S	S	S	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S
White	12,000	5,000	2,000	1,000	1,000	1,000	*	S	*
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	106,000	28,000	19,000	12,000	10,000	12,000	11,000	9,000	5,000
American Indian/Alaska Native	*	S	*	S	S	S	S	S	S
Asian	8,000	4,000	1,000	1,000	1,000	1,000	*	*	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	5,000	1,000	1,000	1,000	*	*	1,000	*	S
Hispanic	5,000	2,000	1,000	1,000	*	*	S	*	S
White	85,000	21,000	15,000	9,000	9,000	10,000	9,000	8,000	4,000
Other	2,000	1,000	1,000	S	*	S	S	S	S
Psychologists	181,000	46,000	32,000	26,000	21,000	24,000	17,000	9,000	5,000
American Indian/Alaska Native	*	*	S	S	S	S	S	S	S
Asian	5,000	4,000	1,000	*	*	*	S	S	S
Black	9,000	2,000	4,000	1,000	*	1,000	*	S	S
Hispanic	9,000	4,000	2,000	1,000	1,000	1,000	*	S	S
White	155,000	36,000	25,000	23,000	19,000	22,000	15,000	8,000	5,000
Other	2,000	*	1,000	*	*	*	1,000	S	S
Sociologists/anthropologists	22,000	7,000	4,000	2,000	3,000	3,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	*	S	S	S	S	S	S	S	S
Black	2,000	*	S	S	S	S	S	S	S
Hispanic	2,000	1,000	1,000	S	S	S	S	S	S
White	18,000	6,000	3,000	2,000	2,000	3,000	1,000	*	1,000
Other	*	S	S	S	S	S	S	S	S
Other social/related scientists	138,000	33,000	31,000	18,000	16,000	10,000	12,000	11,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	10,000	3,000	2,000	2,000	S	S	S	S	S
Black	9,000	4,000	1,000	S	S	*	2,000	S	S
Hispanic	5,000	1,000	2,000	1,000	S	S	S	S	S
White	110,000	22,000	26,000	14,000	14,000	9,000	10,000	10,000	4,000
Other	3,000	S	*	S	S	S	S	S	S
Engineers	1,555,000	263,000	308,000	232,000	227,000	185,000	143,000	108,000	89,000
American Indian/Alaska Native	5,000	1,000	S	1,000	2,000	S	S	S	S
Asian	194,000	53,000	42,000	29,000	21,000	18,000	13,000	11,000	7,000
Black	52,000	11,000	12,000	7,000	8,000	7,000	5,000	2,000	1,000
Hispanic	80,000	16,000	21,000	13,000	11,000	9,000	5,000	2,000	3,000
White	1,197,000	178,000	227,000	179,000	181,000	149,000	116,000	90,000	76,000
Other	26,000	5,000	7,000	3,000	3,000	2,000	3,000	3,000	1,000
Aerospace/aeronautical/astronautical engineers	95,000	14,000	15,000	12,000	16,000	14,000	9,000	7,000	9,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	7,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	S
Black	2,000	*	1,000	S	S	S	S	S	S
Hispanic	5,000	1,000	1,000	*	1,000	*	S	S	S
White	78,000	11,000	11,000	9,000	13,000	12,000	8,000	5,000	9,000
Other	3,000	*	S	S	1,000	S	S	S	S
Chemical engineers	75,000	15,000	16,000	10,000	11,000	7,000	8,000	5,000	3,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	13,000	4,000	3,000	2,000	1,000	1,000	1,000	1,000	*
Black	2,000	1,000	S	S	S	*	S	S	S
Hispanic	3,000	1,000	1,000	*	1,000	S	S	S	S
White	55,000	9,000	12,000	6,000	9,000	5,000	6,000	4,000	2,000
Other	1,000	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	247,000	39,000	48,000	30,000	34,000	29,000	26,000	21,000	20,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	24,000	6,000	3,000	3,000	2,000	4,000	2,000	3,000	2,000
Black	8,000	2,000	1,000	2,000	1,000	1,000	1,000	S	S
Hispanic	17,000	4,000	4,000	2,000	2,000	1,000	1,000	1,000	2,000

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	188,000	28,000	36,000	23,000	29,000	22,000	20,000	15,000	15,000
Other	8,000	1,000	3,000	1,000	S	S	1,000	1,000	S
Electrical/computer hardware engineers	367,000	64,000	76,000	59,000	58,000	43,000	30,000	22,000	15,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	77,000	20,000	20,000	12,000	11,000	5,000	6,000	2,000	2,000
Black	15,000	4,000	4,000	1,000	3,000	1,000	1,000	S	S
Hispanic	18,000	3,000	5,000	4,000	3,000	2,000	1,000	S	S
White	253,000	36,000	47,000	42,000	41,000	34,000	21,000	19,000	13,000
Other	5,000	1,000	1,000	S	1,000	*	1,000	S	S
Industrial engineers	86,000	16,000	21,000	11,000	13,000	7,000	8,000	7,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	8,000	3,000	2,000	1,000	1,000	1,000	S	S	S
Black	5,000	*	2,000	S	S	S	S	S	S
Hispanic	7,000	1,000	3,000	S	1,000	S	S	S	S
White	64,000	11,000	14,000	9,000	9,000	6,000	5,000	7,000	2,000
Other	1,000	S	S	S	S	S	S	S	S
Mechanical engineers	272,000	50,000	54,000	50,000	33,000	30,000	22,000	15,000	17,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	28,000	8,000	6,000	5,000	3,000	2,000	1,000	1,000	1,000
Black	6,000	1,000	1,000	1,000	1,000	*	S	S	S
Hispanic	12,000	3,000	4,000	2,000	1,000	1,000	1,000	S	1,000
White	223,000	37,000	42,000	42,000	28,000	27,000	19,000	14,000	15,000
Other	3,000	1,000	1,000	1,000	S	S	S	S	S
Postsecondary teachers-engineering	33,000	9,000	6,000	4,000	4,000	3,000	3,000	2,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	3,000	1,000	1,000	1,000	1,000	1,000	*	*
Black	1,000	*	*	*	*	S	*	S	S
Hispanic	2,000	1,000	*	*	*	S	*	S	S
White	23,000	5,000	5,000	3,000	3,000	2,000	2,000	2,000	2,000
Other	*	S	S	S	S	S	S	S	S
Other engineers	380,000	56,000	73,000	56,000	57,000	51,000	39,000	29,000	19,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	32,000	8,000	6,000	5,000	3,000	4,000	1,000	3,000	1,000
Black	13,000	3,000	2,000	2,000	2,000	3,000	1,000	S	S
Hispanic	16,000	3,000	3,000	4,000	2,000	2,000	1,000	S	S
White	313,000	40,000	61,000	44,000	49,000	41,000	35,000	25,000	18,000
Other	5,000	1,000	1,000	S	1,000	S	*	S	S
S&E-related occupations	5,331,000	870,000	1,028,000	795,000	758,000	714,000	534,000	351,000	280,000
American Indian/Alaska Native	21,000	3,000	4,000	5,000	1,000	3,000	2,000	S	S
Asian	493,000	83,000	87,000	77,000	66,000	65,000	48,000	34,000	33,000
Black	294,000	57,000	56,000	53,000	49,000	38,000	20,000	13,000	9,000
Hispanic	271,000	47,000	53,000	41,000	50,000	32,000	28,000	9,000	11,000
White	4,158,000	657,000	804,000	605,000	581,000	567,000	430,000	292,000	221,000
Other	94,000	23,000	25,000	14,000	10,000	9,000	7,000	2,000	4,000
Health-related occupations	3,515,000	590,000	684,000	516,000	497,000	486,000	346,000	205,000	191,000
American Indian/Alaska Native	13,000	2,000	1,000	3,000	1,000	1,000	S	S	S
Asian	361,000	60,000	52,000	54,000	50,000	51,000	38,000	27,000	29,000
Black	205,000	37,000	42,000	36,000	37,000	28,000	13,000	6,000	5,000
Hispanic	180,000	30,000	34,000	28,000	31,000	24,000	20,000	6,000	9,000
White	2,689,000	443,000	538,000	382,000	373,000	376,000	269,000	164,000	143,000
Other	67,000	17,000	17,000	12,000	6,000	5,000	5,000	1,000	4,000

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
S&E managers	386,000	29,000	59,000	72,000	67,000	61,000	45,000	33,000	20,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	27,000	3,000	4,000	10,000	5,000	3,000	2,000	1,000	1,000
Black	13,000	1,000	2,000	2,000	2,000	2,000	2,000	S	S
Hispanic	12,000	2,000	2,000	4,000	3,000	*	1,000	S	S
White	327,000	22,000	49,000	55,000	57,000	55,000	40,000	30,000	19,000
Other	5,000	1,000	1,000	*	*	1,000	S	S	S
S&E precollege teachers	716,000	158,000	138,000	103,000	83,000	70,000	70,000	60,000	34,000
American Indian/Alaska Native	3,000	S	S	S	S	S	S	S	S
Asian	14,000	5,000	3,000	1,000	S	1,000	1,000	1,000	S
Black	50,000	15,000	8,000	8,000	6,000	4,000	3,000	4,000	3,000
Hispanic	41,000	9,000	8,000	4,000	9,000	4,000	4,000	2,000	S
White	597,000	126,000	114,000	89,000	66,000	59,000	60,000	54,000	30,000
Other	11,000	3,000	3,000	S	S	S	S	S	S
S&E technicians/technologists	500,000	74,000	106,000	72,000	79,000	66,000	51,000	34,000	17,000
American Indian/Alaska Native	2,000	*	S	S	S	S	S	S	S
Asian	71,000	13,000	22,000	10,000	8,000	7,000	6,000	4,000	2,000
Black	20,000	3,000	3,000	5,000	3,000	4,000	1,000	S	S
Hispanic	26,000	4,000	6,000	4,000	5,000	3,000	1,000	S	1,000
White	372,000	53,000	73,000	53,000	60,000	52,000	41,000	27,000	12,000
Other	8,000	2,000	2,000	1,000	S	S	S	S	S
Other S&E-related occupations	214,000	19,000	42,000	32,000	32,000	30,000	22,000	19,000	18,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	19,000	2,000	6,000	2,000	2,000	3,000	S	2,000	1,000
Black	7,000	S	S	S	2,000	S	S	S	S
Hispanic	12,000	2,000	3,000	S	3,000	1,000	1,000	S	S
White	173,000	13,000	31,000	26,000	25,000	26,000	19,000	17,000	17,000
Other	3,000	S	S	S	S	S	S	S	S
Non-S&E occupations	7,873,000	1,186,000	1,356,000	1,129,000	1,029,000	987,000	1,002,000	676,000	508,000
American Indian/Alaska Native	38,000	9,000	6,000	6,000	4,000	5,000	6,000	S	S
Asian	542,000	95,000	93,000	83,000	71,000	68,000	55,000	48,000	30,000
Black	533,000	118,000	109,000	78,000	65,000	63,000	62,000	29,000	9,000
Hispanic	456,000	99,000	95,000	77,000	63,000	60,000	37,000	12,000	13,000
White	6,179,000	837,000	1,019,000	865,000	817,000	783,000	830,000	578,000	451,000
Other	126,000	29,000	35,000	20,000	10,000	9,000	12,000	8,000	4,000
Art/humanities/related occupations	248,000	27,000	45,000	51,000	30,000	20,000	36,000	22,000	16,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	10,000	1,000	1,000	3,000	S	1,000	2,000	S	S
Black	9,000	1,000	S	S	S	S	S	S	S
Hispanic	19,000	4,000	3,000	5,000	1,000	S	S	S	S
White	206,000	21,000	39,000	38,000	27,000	15,000	31,000	19,000	15,000
Other	3,000	S	S	S	S	S	S	S	S
Management-related occupations	1,310,000	169,000	251,000	191,000	178,000	171,000	166,000	106,000	78,000
American Indian/Alaska Native	10,000	S	S	S	S	S	3,000	S	S
Asian	125,000	22,000	28,000	18,000	14,000	18,000	10,000	11,000	5,000
Black	97,000	15,000	20,000	19,000	13,000	9,000	15,000	5,000	2,000
Hispanic	72,000	15,000	15,000	11,000	13,000	7,000	6,000	2,000	S
White	983,000	114,000	180,000	139,000	136,000	134,000	129,000	85,000	67,000
Other	22,000	3,000	7,000	2,000	S	3,000	3,000	S	S
Non-S&E managers	922,000	55,000	118,000	140,000	153,000	149,000	150,000	89,000	68,000
American Indian/Alaska Native	3,000	1,000	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Asian	45,000	6,000	6,000	8,000	7,000	5,000	7,000	4,000	2,000
Black	47,000	6,000	11,000	6,000	7,000	6,000	6,000	5,000	S
Hispanic	38,000	3,000	8,000	7,000	6,000	6,000	4,000	1,000	1,000
White	781,000	38,000	91,000	116,000	131,000	131,000	133,000	78,000	64,000
Other	8,000	S	S	2,000	S	1,000	S	1,000	S
Non-S&E postsecondary teachers	140,000	40,000	28,000	17,000	14,000	11,000	15,000	10,000	6,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	10,000	4,000	1,000	1,000	1,000	1,000	S	1,000	S
Black	9,000	3,000	2,000	1,000	*	1,000	1,000	1,000	S
Hispanic	11,000	6,000	2,000	1,000	1,000	1,000	1,000	S	S
White	107,000	27,000	21,000	13,000	12,000	8,000	12,000	8,000	5,000
Other	2,000	S	*	S	*	S	S	S	S
Non-S&E precollege/other teachers	600,000	129,000	99,000	86,000	80,000	73,000	69,000	37,000	27,000
American Indian/Alaska Native	3,000	2,000	S	S	S	S	S	S	S
Asian	19,000	5,000	3,000	3,000	2,000	3,000	2,000	S	S
Black	58,000	15,000	11,000	5,000	8,000	8,000	6,000	3,000	2,000
Hispanic	47,000	14,000	9,000	10,000	4,000	7,000	3,000	S	S
White	464,000	90,000	73,000	65,000	66,000	54,000	58,000	33,000	24,000
Other	10,000	4,000	S	2,000	1,000	S	S	S	S
Sales/marketing occupations	1,322,000	160,000	243,000	174,000	160,000	150,000	168,000	149,000	117,000
American Indian/Alaska Native	5,000	1,000	S	S	S	S	S	S	S
Asian	102,000	15,000	22,000	13,000	18,000	10,000	10,000	8,000	7,000
Black	53,000	12,000	7,000	8,000	6,000	9,000	5,000	5,000	S
Hispanic	57,000	10,000	13,000	8,000	7,000	8,000	5,000	3,000	2,000
White	1,081,000	119,000	192,000	139,000	126,000	122,000	146,000	131,000	106,000
Other	24,000	2,000	10,000	5,000	S	S	S	S	1,000
Social services/related occupations	621,000	166,000	144,000	92,000	68,000	59,000	48,000	28,000	17,000
American Indian/Alaska Native	5,000	3,000	1,000	S	S	S	S	S	S
Asian	19,000	7,000	4,000	2,000	2,000	1,000	1,000	S	S
Black	84,000	31,000	17,000	12,000	7,000	7,000	6,000	2,000	2,000
Hispanic	52,000	15,000	12,000	9,000	4,000	7,000	2,000	S	S
White	450,000	106,000	106,000	67,000	54,000	41,000	38,000	24,000	14,000
Other	11,000	4,000	4,000	2,000	1,000	S	S	S	S
Other non-S&E occupations	2,711,000	439,000	429,000	377,000	347,000	355,000	349,000	235,000	180,000
American Indian/Alaska Native	9,000	2,000	S	S	S	S	S	S	S
Asian	214,000	37,000	29,000	33,000	29,000	28,000	23,000	21,000	15,000
Black	175,000	35,000	38,000	24,000	23,000	23,000	21,000	8,000	2,000
Hispanic	159,000	32,000	33,000	26,000	26,000	21,000	14,000	3,000	4,000
White	2,108,000	321,000	317,000	288,000	265,000	278,000	284,000	199,000	157,000
Other	46,000	13,000	10,000	6,000	4,000	2,000	6,000	3,000	S
Bachelor's degrees, all occupations	10,490,000	1,453,000	1,960,000	1,593,000	1,500,000	1,341,000	1,197,000	813,000	631,000
American Indian/Alaska Native	47,000	9,000	10,000	8,000	8,000	7,000	4,000	2,000	S
Asian	873,000	139,000	161,000	149,000	114,000	113,000	81,000	64,000	51,000
Black	648,000	113,000	126,000	110,000	96,000	87,000	65,000	35,000	16,000
Hispanic	588,000	110,000	134,000	97,000	86,000	75,000	48,000	16,000	22,000
White	8,135,000	1,040,000	1,478,000	1,194,000	1,175,000	1,044,000	983,000	687,000	535,000
Other	198,000	42,000	51,000	35,000	21,000	16,000	17,000	9,000	6,000
S&E occupations	2,786,000	440,000	591,000	461,000	444,000	327,000	252,000	156,000	116,000
American Indian/Alaska Native	11,000	1,000	3,000	1,000	4,000	1,000	S	S	S
Asian	278,000	65,000	69,000	55,000	33,000	24,000	13,000	8,000	11,000
Black	138,000	26,000	28,000	25,000	22,000	17,000	14,000	4,000	2,000

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Hispanic	138,000	29,000	37,000	23,000	18,000	14,000	9,000	4,000	4,000
White	2,169,000	306,000	440,000	349,000	360,000	267,000	212,000	136,000	98,000
Other	52,000	12,000	15,000	7,000	6,000	4,000	4,000	3,000	1,000
Scientists	1,777,000	307,000	394,000	310,000	286,000	191,000	154,000	84,000	52,000
American Indian/Alaska Native	7,000	1,000	2,000	1,000	S	S	S	S	S
Asian	194,000	47,000	54,000	41,000	23,000	13,000	6,000	4,000	6,000
Black	98,000	19,000	20,000	20,000	15,000	11,000	9,000	2,000	2,000
Hispanic	82,000	20,000	23,000	14,000	9,000	7,000	4,000	3,000	1,000
White	1,364,000	210,000	286,000	228,000	233,000	157,000	132,000	74,000	43,000
Other	32,000	9,000	9,000	5,000	4,000	2,000	2,000	1,000	S
Biological/agricultural/other life scientists	182,000	52,000	34,000	15,000	23,000	22,000	18,000	12,000	5,000
American Indian/Alaska Native	3,000	S	S	S	S	S	S	S	S
Asian	15,000	7,000	2,000	S	2,000	S	1,000	S	S
Black	6,000	3,000	S	S	S	1,000	S	S	S
Hispanic	8,000	2,000	3,000	1,000	S	S	S	S	S
White	146,000	39,000	26,000	12,000	18,000	20,000	16,000	11,000	4,000
Other	3,000	1,000	1,000	S	S	S	S	S	S
Agricultural/food scientists	26,000	3,000	5,000	2,000	4,000	6,000	3,000	2,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	23,000	2,000	4,000	1,000	3,000	5,000	3,000	2,000	1,000
Other	S	S	S	S	S	S	S	S	S
Biological/medical scientists	118,000	41,000	26,000	11,000	13,000	11,000	9,000	5,000	2,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S	S
Asian	13,000	6,000	2,000	S	2,000	S	1,000	S	S
Black	5,000	2,000	S	S	S	S	S	S	S
Hispanic	6,000	2,000	2,000	S	S	S	S	S	S
White	91,000	29,000	19,000	9,000	10,000	10,000	8,000	4,000	2,000
Other	3,000	1,000	1,000	S	S	S	S	S	S
Environmental life scientists	29,000	4,000	2,000	2,000	6,000	5,000	5,000	4,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S
White	26,000	3,000	2,000	2,000	5,000	4,000	5,000	4,000	1,000
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	9,000	5,000	1,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	7,000	3,000	1,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Computer/mathematical scientists	1,332,000	180,000	304,000	270,000	235,000	145,000	112,000	52,000	34,000
American Indian/Alaska Native	2,000	S	1,000	S	S	S	S	S	S
Asian	162,000	33,000	49,000	40,000	19,000	11,000	4,000	3,000	2,000
Black	77,000	12,000	16,000	18,000	12,000	8,000	8,000	1,000	S
Hispanic	58,000	13,000	16,000	11,000	7,000	5,000	3,000	2,000	1,000

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	1,010,000	118,000	214,000	195,000	193,000	118,000	96,000	46,000	30,000
Other	23,000	4,000	7,000	4,000	3,000	2,000	1,000	S	S
Computer/information scientists	1,282,000	171,000	295,000	265,000	229,000	139,000	103,000	48,000	31,000
American Indian/Alaska Native	2,000	S	1,000	S	S	S	S	S	S
Asian	160,000	33,000	49,000	40,000	19,000	11,000	4,000	3,000	2,000
Black	74,000	11,000	16,000	18,000	12,000	8,000	7,000	1,000	S
Hispanic	56,000	12,000	16,000	11,000	7,000	5,000	2,000	2,000	1,000
White	967,000	111,000	206,000	192,000	187,000	113,000	89,000	42,000	28,000
Other	22,000	4,000	7,000	4,000	3,000	2,000	1,000	S	S
Mathematical scientists	29,000	4,000	6,000	2,000	5,000	2,000	7,000	3,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	2,000	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	25,000	2,000	6,000	2,000	4,000	2,000	5,000	3,000	1,000
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	21,000	5,000	3,000	2,000	2,000	4,000	2,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	S	S	S	S	S	S	S
Black	1,000	S	S	S	S	S	S	S	S
Hispanic	1,000	*	S	S	S	S	S	S	S
White	17,000	5,000	2,000	2,000	1,000	4,000	2,000	1,000	1,000
Other	S	S	S	S	S	S	S	S	S
Physical/related scientists	139,000	36,000	27,000	15,000	17,000	16,000	13,000	10,000	5,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	11,000	4,000	1,000	S	1,000	1,000	S	1,000	2,000
Black	5,000	1,000	1,000	1,000	S	1,000	1,000	S	S
Hispanic	8,000	2,000	1,000	1,000	S	S	S	S	S
White	111,000	26,000	23,000	12,000	15,000	13,000	10,000	8,000	3,000
Other	3,000	2,000	S	S	S	S	S	S	S
Chemists, except biochemists	69,000	18,000	13,000	8,000	8,000	8,000	7,000	4,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	7,000	2,000	S	S	1,000	1,000	S	1,000	1,000
Black	4,000	1,000	S	1,000	S	S	*	S	S
Hispanic	5,000	1,000	S	S	S	S	S	S	S
White	51,000	13,000	12,000	6,000	6,000	5,000	4,000	3,000	2,000
Other	2,000	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	33,000	5,000	7,000	4,000	6,000	4,000	4,000	3,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	1,000	*	S	S	S	S	S	S	S
White	31,000	4,000	6,000	4,000	6,000	4,000	3,000	3,000	S
Other	S	S	S	S	S	S	S	S	S
Physicists/astronomers	5,000	2,000	S	S	1,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	*	*	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	4,000	2,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	10,000	6,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	*	*	S	S	S	S	S	S	S
Hispanic	1,000	1,000	S	S	S	S	S	S	S
White	7,000	4,000	S	S	S	S	S	S	S
Other	1,000	*	S	S	S	S	S	S	S
Other physical/related scientists	22,000	5,000	5,000	2,000	2,000	4,000	2,000	2,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S
White	19,000	4,000	3,000	2,000	1,000	4,000	2,000	1,000	S
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	123,000	39,000	29,000	10,000	10,000	8,000	10,000	10,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	3,000	S	S	S	S	S	S	S
Black	10,000	4,000	S	S	S	S	S	S	S
Hispanic	8,000	3,000	2,000	S	1,000	S	S	S	S
White	97,000	28,000	23,000	9,000	8,000	6,000	9,000	10,000	5,000
Other	S	S	S	S	S	S	S	S	S
Economists	9,000	2,000	1,000	S	1,000	S	1,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S
White	6,000	1,000	S	S	S	S	1,000	S	S
Other	S	S	S	S	S	S	S	S	S
Political/related scientists	9,000	4,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	7,000	4,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	9,000	6,000	2,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	1,000	*	S	S	S	S	S	S	S
White	8,000	5,000	1,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Psychologists	14,000	8,000	2,000	S	2,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	2,000	1,000	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	10,000	6,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Sociologists/anthropologists	9,000	3,000	1,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S
White	7,000	2,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other social/related scientists	74,000	15,000	22,000	8,000	6,000	4,000	8,000	7,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	S	S	S	S	S	S	S	S
Black	6,000	3,000	S	S	S	S	S	S	S
Hispanic	3,000	*	S	S	S	S	S	S	S
White	60,000	9,000	19,000	7,000	5,000	3,000	8,000	6,000	2,000
Other	S	S	S	S	S	S	S	S	S
Engineers	1,010,000	133,000	197,000	152,000	158,000	136,000	98,000	72,000	65,000
American Indian/Alaska Native	4,000	*	S	1,000	2,000	S	S	S	S
Asian	84,000	18,000	15,000	14,000	10,000	11,000	7,000	5,000	5,000
Black	39,000	7,000	8,000	5,000	7,000	6,000	4,000	1,000	S
Hispanic	57,000	9,000	14,000	9,000	9,000	7,000	4,000	2,000	3,000
White	805,000	96,000	154,000	121,000	127,000	110,000	81,000	61,000	56,000
Other	20,000	3,000	5,000	2,000	3,000	2,000	2,000	3,000	1,000
Aerospace/aeronautical/astronautical engineers	53,000	6,000	6,000	6,000	12,000	10,000	5,000	4,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	1,000	S	S	1,000	S	S	S	S
Black	2,000	*	S	S	S	S	S	S	S
Hispanic	3,000	1,000	1,000	S	S	S	S	S	S
White	43,000	4,000	4,000	5,000	9,000	8,000	4,000	3,000	4,000
Other	2,000	S	S	S	S	S	S	S	S
Chemical engineers	45,000	8,000	11,000	5,000	8,000	5,000	4,000	3,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	1,000	1,000	S	S	S	S	S	S
Black	1,000	*	S	S	S	S	S	S	S
Hispanic	2,000	*	S	S	1,000	S	S	S	S
White	35,000	6,000	9,000	3,000	6,000	5,000	4,000	3,000	1,000
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	174,000	23,000	34,000	20,000	26,000	21,000	19,000	14,000	16,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	11,000	2,000	1,000	1,000	1,000	2,000	1,000	1,000	1,000
Black	6,000	1,000	1,000	1,000	1,000	1,000	S	S	S
Hispanic	13,000	2,000	3,000	1,000	1,000	1,000	1,000	1,000	2,000
White	135,000	17,000	25,000	17,000	22,000	16,000	15,000	10,000	12,000
Other	7,000	1,000	S	S	S	S	S	1,000	S
Electrical/computer hardware engineers	229,000	33,000	45,000	36,000	39,000	31,000	20,000	14,000	11,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	37,000	7,000	9,000	6,000	5,000	3,000	4,000	1,000	1,000
Black	11,000	2,000	2,000	1,000	3,000	1,000	1,000	S	S
Hispanic	13,000	2,000	3,000	3,000	3,000	2,000	S	S	S
White	165,000	21,000	30,000	25,000	29,000	24,000	14,000	13,000	9,000
Other	3,000	1,000	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Industrial engineers	60,000	7,000	15,000	8,000	11,000	6,000	5,000	6,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	1,000	S	S	S	S	S	S	S
Black	4,000	*	1,000	S	S	S	S	S	S
Hispanic	5,000	1,000	2,000	S	1,000	S	S	S	S
White	47,000	5,000	11,000	6,000	8,000	5,000	3,000	5,000	2,000
Other	1,000	S	S	S	S	S	S	S	S
Mechanical engineers	188,000	26,000	37,000	36,000	24,000	23,000	16,000	11,000	15,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	12,000	2,000	2,000	3,000	1,000	2,000	1,000	1,000	1,000
Black	5,000	1,000	1,000	1,000	S	S	S	S	S
Hispanic	10,000	2,000	3,000	1,000	1,000	S	1,000	S	1,000
White	159,000	20,000	31,000	31,000	20,000	20,000	14,000	10,000	13,000
Other	2,000	1,000	S	1,000	S	S	S	S	S
Postsecondary teachers-engineering	5,000	2,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	*	*	S	S	S	S	S	S	S
White	4,000	1,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other engineers	255,000	29,000	48,000	39,000	37,000	41,000	28,000	18,000	15,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	12,000	3,000	2,000	2,000	1,000	3,000	S	1,000	S
Black	10,000	2,000	2,000	1,000	1,000	3,000	S	S	S
Hispanic	10,000	1,000	2,000	3,000	1,000	2,000	S	S	S
White	218,000	21,000	43,000	33,000	32,000	32,000	26,000	16,000	14,000
Other	4,000	1,000	S	S	1,000	S	S	S	S
S&E-related occupations	2,956,000	374,000	595,000	469,000	421,000	414,000	324,000	208,000	152,000
American Indian/Alaska Native	14,000	2,000	3,000	3,000	S	S	S	S	S
Asian	248,000	23,000	39,000	42,000	34,000	42,000	32,000	21,000	16,000
Black	186,000	26,000	37,000	35,000	31,000	27,000	15,000	10,000	6,000
Hispanic	158,000	22,000	36,000	22,000	31,000	21,000	17,000	4,000	7,000
White	2,285,000	287,000	461,000	356,000	317,000	318,000	255,000	170,000	121,000
Other	64,000	13,000	19,000	11,000	8,000	5,000	5,000	1,000	2,000
Health-related occupations	1,829,000	248,000	379,000	297,000	253,000	264,000	198,000	106,000	84,000
American Indian/Alaska Native	7,000	2,000	S	2,000	S	S	S	S	S
Asian	173,000	12,000	23,000	28,000	25,000	32,000	25,000	15,000	12,000
Black	132,000	19,000	28,000	24,000	23,000	21,000	10,000	4,000	4,000
Hispanic	93,000	14,000	20,000	13,000	14,000	13,000	11,000	2,000	5,000
White	1,378,000	191,000	294,000	219,000	187,000	195,000	147,000	83,000	62,000
Other	46,000	10,000	13,000	10,000	5,000	3,000	4,000	S	S
S&E managers	219,000	9,000	29,000	39,000	40,000	39,000	29,000	20,000	17,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	12,000	S	1,000	5,000	2,000	2,000	S	S	S
Black	9,000	*	S	1,000	2,000	S	2,000	S	S
Hispanic	6,000	1,000	2,000	1,000	2,000	S	S	S	S
White	188,000	7,000	23,000	30,000	34,000	35,000	26,000	17,000	16,000
Other	3,000	S	S	S	S	S	S	S	S
S&E precollege teachers	357,000	51,000	77,000	50,000	44,000	35,000	36,000	39,000	25,000
American Indian/Alaska Native	3,000	S	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Asian	7,000	3,000	S	S	S	S	S	S	S
Black	23,000	4,000	4,000	4,000	3,000	2,000	S	2,000	S
Hispanic	27,000	3,000	7,000	2,000	7,000	3,000	3,000	S	S
White	292,000	40,000	61,000	43,000	33,000	27,000	31,000	35,000	23,000
Other	5,000	1,000	3,000	S	S	S	S	S	S
S&E technicians/technologists	401,000	55,000	80,000	61,000	62,000	58,000	43,000	27,000	14,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S	S
Asian	42,000	7,000	10,000	6,000	5,000	5,000	4,000	3,000	2,000
Black	17,000	2,000	3,000	4,000	3,000	3,000	1,000	S	S
Hispanic	23,000	3,000	5,000	4,000	5,000	3,000	S	S	1,000
White	309,000	41,000	60,000	46,000	47,000	46,000	36,000	22,000	10,000
Other	8,000	2,000	2,000	1,000	S	S	S	S	S
Other S&E-related occupations	149,000	11,000	30,000	23,000	22,000	19,000	18,000	15,000	12,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	14,000	1,000	4,000	1,000	2,000	2,000	S	S	S
Black	5,000	S	S	S	1,000	S	S	S	S
Hispanic	9,000	1,000	2,000	S	2,000	S	1,000	S	S
White	118,000	7,000	23,000	18,000	16,000	15,000	15,000	13,000	11,000
Other	2,000	S	S	S	S	S	S	S	S
Non-S&E occupations	4,747,000	640,000	775,000	663,000	636,000	599,000	621,000	450,000	363,000
American Indian/Alaska Native	22,000	5,000	4,000	3,000	3,000	4,000	1,000	S	S
Asian	347,000	50,000	53,000	52,000	48,000	47,000	36,000	35,000	25,000
Black	324,000	61,000	62,000	50,000	43,000	43,000	36,000	21,000	8,000
Hispanic	292,000	59,000	62,000	52,000	37,000	40,000	22,000	8,000	11,000
White	3,681,000	447,000	577,000	488,000	498,000	458,000	516,000	381,000	316,000
Other	82,000	17,000	18,000	17,000	7,000	6,000	9,000	4,000	3,000
Art/humanities/related occupations	160,000	18,000	25,000	33,000	20,000	12,000	28,000	14,000	10,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	S	S	2,000	S	S	S	S	S
Black	6,000	1,000	S	S	S	S	S	S	S
Hispanic	16,000	2,000	3,000	S	S	S	S	S	S
White	128,000	14,000	20,000	22,000	18,000	8,000	25,000	12,000	9,000
Other	3,000	S	S	S	S	S	S	S	S
Management-related occupations	793,000	89,000	149,000	110,000	109,000	112,000	101,000	71,000	52,000
American Indian/Alaska Native	5,000	S	S	S	S	S	S	S	S
Asian	70,000	9,000	14,000	12,000	7,000	11,000	4,000	8,000	5,000
Black	58,000	8,000	10,000	12,000	7,000	6,000	9,000	4,000	2,000
Hispanic	47,000	9,000	10,000	7,000	7,000	6,000	4,000	S	S
White	599,000	60,000	109,000	78,000	85,000	87,000	81,000	58,000	41,000
Other	14,000	2,000	4,000	S	S	2,000	3,000	S	S
Non-S&E managers	456,000	6,000	43,000	64,000	86,000	76,000	82,000	53,000	45,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	19,000	S	2,000	5,000	3,000	2,000	3,000	S	S
Black	21,000	*	5,000	3,000	5,000	4,000	S	3,000	S
Hispanic	21,000	S	5,000	4,000	4,000	4,000	2,000	S	1,000
White	390,000	3,000	32,000	51,000	74,000	66,000	74,000	48,000	42,000
Other	3,000	S	S	S	S	S	S	S	S
Non-S&E postsecondary teachers	26,000	9,000	5,000	4,000	1,000	1,000	2,000	3,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	S	S	S	S	S	S
Black	2,000	*	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Hispanic	3,000	1,000	S	S	S	S	S	S	S
White	19,000	6,000	4,000	4,000	S	1,000	S	2,000	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	304,000	54,000	45,000	47,000	43,000	40,000	36,000	17,000	21,000
American Indian/Alaska Native	1,000	1,000	S	S	S	S	S	S	S
Asian	11,000	2,000	2,000	S	S	S	S	S	S
Black	29,000	5,000	7,000	3,000	2,000	5,000	2,000	S	2,000
Hispanic	31,000	7,000	7,000	8,000	3,000	4,000	S	S	S
White	225,000	38,000	29,000	30,000	36,000	28,000	30,000	15,000	19,000
Other	6,000	2,000	S	S	S	S	S	S	S
Sales/marketing occupations	980,000	113,000	172,000	127,000	125,000	109,000	121,000	117,000	96,000
American Indian/Alaska Native	3,000	S	S	S	S	S	S	S	S
Asian	71,000	10,000	15,000	7,000	13,000	6,000	7,000	5,000	6,000
Black	40,000	7,000	3,000	7,000	5,000	8,000	4,000	5,000	S
Hispanic	39,000	8,000	8,000	5,000	4,000	5,000	4,000	2,000	S
White	812,000	84,000	142,000	103,000	101,000	88,000	104,000	104,000	86,000
Other	16,000	2,000	4,000	S	S	S	S	S	S
Social services/related occupations	240,000	69,000	57,000	33,000	25,000	18,000	18,000	11,000	8,000
American Indian/Alaska Native	3,000	S	S	S	S	S	S	S	S
Asian	8,000	3,000	S	S	S	S	S	S	S
Black	42,000	13,000	10,000	7,000	3,000	4,000	2,000	S	S
Hispanic	24,000	8,000	5,000	4,000	2,000	3,000	1,000	S	S
White	158,000	42,000	39,000	20,000	20,000	10,000	12,000	9,000	6,000
Other	5,000	1,000	S	S	S	S	S	S	S
Other non-S&E occupations	1,789,000	282,000	277,000	245,000	226,000	231,000	234,000	163,000	130,000
American Indian/Alaska Native	7,000	1,000	S	S	S	S	S	S	S
Asian	160,000	24,000	17,000	23,000	23,000	25,000	18,000	18,000	12,000
Black	126,000	26,000	24,000	16,000	20,000	16,000	16,000	6,000	2,000
Hispanic	110,000	22,000	24,000	19,000	16,000	15,000	7,000	3,000	3,000
White	1,350,000	200,000	203,000	180,000	163,000	170,000	189,000	134,000	112,000
Other	35,000	9,000	7,000	5,000	4,000	2,000	4,000	3,000	S
Master's degrees, all occupations	4,979,000	1,123,000	1,015,000	760,000	625,000	528,000	475,000	298,000	155,000
American Indian/Alaska Native	20,000	4,000	3,000	4,000	2,000	S	4,000	S	S
Asian	525,000	158,000	128,000	87,000	54,000	37,000	29,000	23,000	9,000
Black	292,000	89,000	68,000	41,000	31,000	24,000	26,000	10,000	4,000
Hispanic	217,000	66,000	46,000	35,000	30,000	18,000	14,000	5,000	3,000
White	3,856,000	784,000	749,000	587,000	503,000	442,000	396,000	256,000	138,000
Other	70,000	21,000	22,000	5,000	6,000	6,000	5,000	4,000	1,000
S&E occupations	1,424,000	362,000	301,000	231,000	175,000	132,000	103,000	79,000	40,000
American Indian/Alaska Native	3,000	1,000	S	S	S	S	S	S	S
Asian	287,000	101,000	76,000	50,000	25,000	12,000	10,000	10,000	3,000
Black	50,000	16,000	15,000	7,000	4,000	3,000	3,000	1,000	1,000
Hispanic	52,000	19,000	12,000	9,000	4,000	3,000	2,000	1,000	2,000
White	1,011,000	219,000	193,000	161,000	139,000	112,000	87,000	67,000	33,000
Other	20,000	7,000	5,000	3,000	2,000	1,000	2,000	S	1,000
Scientists	974,000	252,000	212,000	164,000	116,000	90,000	67,000	51,000	21,000
American Indian/Alaska Native	3,000	1,000	S	S	S	S	S	S	S
Asian	207,000	73,000	58,000	40,000	17,000	7,000	6,000	4,000	1,000
Black	39,000	12,000	12,000	5,000	4,000	3,000	2,000	1,000	S
Hispanic	32,000	13,000	6,000	6,000	2,000	2,000	1,000	1,000	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	679,000	148,000	131,000	112,000	91,000	78,000	57,000	44,000	18,000
Other	15,000	5,000	4,000	2,000	2,000	1,000	1,000	S	S
Biological/agricultural/other life scientists	98,000	32,000	18,000	12,000	12,000	9,000	8,000	5,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	13,000	6,000	3,000	1,000	1,000	S	S	S	S
Black	2,000	1,000	S	S	S	S	S	S	S
Hispanic	4,000	1,000	S	1,000	S	S	S	S	S
White	77,000	23,000	15,000	9,000	10,000	8,000	7,000	4,000	1,000
Other	1,000	1,000	S	S	S	S	S	S	S
Agricultural/food scientists	13,000	3,000	2,000	1,000	3,000	1,000	2,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	S	S	S	S	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	10,000	2,000	1,000	S	3,000	1,000	S	S	S
Other	S	S	S	S	S	S	S	S	S
Biological/medical scientists	63,000	22,000	12,000	10,000	6,000	6,000	3,000	1,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	10,000	4,000	2,000	1,000	1,000	S	S	S	S
Black	1,000	1,000	S	S	S	S	S	S	S
Hispanic	4,000	1,000	S	1,000	S	S	S	S	S
White	47,000	15,000	10,000	7,000	5,000	6,000	3,000	S	S
Other	1,000	S	S	S	S	S	S	S	S
Environmental life scientists	9,000	2,000	1,000	S	1,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	9,000	2,000	1,000	S	1,000	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	13,000	5,000	3,000	1,000	S	S	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	12,000	4,000	2,000	1,000	S	S	1,000	1,000	S
Other	1,000	S	S	S	S	S	S	S	S
Computer/mathematical scientists	578,000	140,000	142,000	108,000	69,000	47,000	37,000	27,000	8,000
American Indian/Alaska Native	1,000	*	S	S	S	S	S	S	S
Asian	170,000	57,000	50,000	35,000	15,000	6,000	5,000	3,000	S
Black	25,000	8,000	8,000	3,000	2,000	2,000	1,000	S	S
Hispanic	17,000	7,000	4,000	3,000	1,000	1,000	S	S	S
White	357,000	65,000	77,000	66,000	49,000	38,000	31,000	23,000	7,000
Other	9,000	2,000	2,000	1,000	2,000	S	S	S	S
Computer/information scientists	515,000	127,000	127,000	99,000	63,000	41,000	31,000	22,000	5,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	163,000	54,000	49,000	33,000	15,000	5,000	4,000	3,000	S
Black	20,000	7,000	6,000	3,000	2,000	1,000	1,000	S	S
Hispanic	14,000	7,000	3,000	3,000	1,000	1,000	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	309,000	58,000	67,000	58,000	44,000	33,000	26,000	18,000	5,000
Other	9,000	2,000	2,000	1,000	S	S	S	S	S
Mathematical scientists	25,000	6,000	6,000	4,000	3,000	3,000	2,000	2,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	1,000	1,000	S	S	S	S	S	S
Black	2,000	1,000	S	S	S	S	S	S	S
Hispanic	1,000	*	S	S	S	S	S	S	S
White	19,000	3,000	4,000	3,000	3,000	2,000	1,000	2,000	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	38,000	7,000	9,000	5,000	3,000	4,000	4,000	4,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	2,000	1,000	1,000	S	S	S	S	S
Black	3,000	*	S	S	S	S	S	S	S
Hispanic	2,000	*	S	S	S	S	S	S	S
White	29,000	4,000	6,000	4,000	3,000	2,000	4,000	3,000	2,000
Other	S	S	S	S	S	S	S	S	S
Physical/related scientists	83,000	20,000	15,000	13,000	10,000	9,000	6,000	6,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	10,000	4,000	3,000	1,000	S	1,000	S	S	S
Black	2,000	1,000	S	S	S	S	S	S	S
Hispanic	3,000	1,000	S	1,000	S	S	S	S	S
White	67,000	14,000	11,000	11,000	9,000	8,000	5,000	5,000	4,000
Other	1,000	*	S	S	S	S	S	S	S
Chemists, except biochemists	25,000	6,000	6,000	3,000	3,000	2,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	7,000	2,000	3,000	1,000	S	S	S	S	S
Black	1,000	1,000	S	S	S	S	S	S	S
Hispanic	1,000	*	S	S	S	S	S	S	S
White	16,000	3,000	2,000	2,000	2,000	2,000	1,000	1,000	S
Other	S	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	27,000	5,000	3,000	7,000	4,000	4,000	2,000	2,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	1,000	*	S	S	S	S	S	S	S
White	25,000	4,000	3,000	6,000	4,000	3,000	2,000	1,000	2,000
Other	1,000	S	S	S	S	S	S	S	S
Physicists/astronomers	8,000	3,000	1,000	S	S	1,000	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	7,000	2,000	1,000	S	S	1,000	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	12,000	4,000	3,000	1,000	S	S	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	1,000	S	S	S	S	S	S	S
Black	*	*	S	S	S	S	S	S	S
Hispanic	*	*	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	10,000	2,000	2,000	1,000	S	S	1,000	1,000	S
Other	S	S	S	S	S	S	S	S	S
Other physical/related scientists	10,000	2,000	3,000	1,000	2,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S
White	8,000	2,000	2,000	S	2,000	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	215,000	60,000	37,000	32,000	25,000	25,000	17,000	13,000	7,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	13,000	7,000	2,000	3,000	S	S	S	S	S
Black	10,000	2,000	4,000	S	S	S	1,000	S	S
Hispanic	8,000	3,000	2,000	1,000	S	S	S	S	S
White	179,000	46,000	29,000	25,000	23,000	24,000	14,000	12,000	6,000
Other	3,000	2,000	1,000	S	S	S	S	S	S
Economists	17,000	5,000	3,000	4,000	1,000	2,000	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	1,000	S	S	S	S	S	S	S
Black	1,000	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	14,000	4,000	2,000	4,000	1,000	1,000	1,000	1,000	S
Other	S	S	S	S	S	S	S	S	S
Political/related scientists	4,000	2,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	4,000	1,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	30,000	10,000	5,000	3,000	3,000	2,000	3,000	3,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	2,000	S	S	S	S	S	S	S
Black	1,000	1,000	S	S	S	S	S	S	S
Hispanic	1,000	*	S	S	S	S	S	S	S
White	24,000	7,000	4,000	2,000	3,000	2,000	2,000	2,000	1,000
Other	1,000	S	S	S	S	S	S	S	S
Psychologists	100,000	25,000	19,000	14,000	11,000	13,000	9,000	5,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	2,000	S	S	S	S	S	S	S
Black	5,000	1,000	2,000	S	S	S	S	S	S
Hispanic	5,000	2,000	S	1,000	S	S	S	S	S
White	86,000	20,000	15,000	12,000	10,000	13,000	8,000	5,000	3,000
Other	1,000	S	1,000	S	S	S	S	S	S
Sociologists/anthropologists	8,000	2,000	2,000	S	S	1,000	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	7,000	2,000	1,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other social/related scientists	56,000	16,000	7,000	10,000	9,000	6,000	3,000	4,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	2,000	S	2,000	S	S	S	S	S
Black	2,000	S	S	S	S	S	S	S	S
Hispanic	1,000	1,000	S	S	S	S	S	S	S
White	45,000	13,000	6,000	6,000	8,000	6,000	S	3,000	S
Other	S	S	S	S	S	S	S	S	S
Engineers	450,000	110,000	89,000	66,000	59,000	42,000	36,000	28,000	19,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	81,000	28,000	18,000	11,000	8,000	5,000	4,000	5,000	2,000
Black	11,000	4,000	3,000	2,000	1,000	1,000	S	S	S
Hispanic	20,000	6,000	6,000	3,000	2,000	1,000	1,000	S	S
White	332,000	71,000	61,000	50,000	48,000	34,000	30,000	23,000	15,000
Other	5,000	1,000	1,000	1,000	S	S	1,000	S	*
Aerospace/aeronautical/astronautical engineers	37,000	7,000	8,000	5,000	4,000	4,000	3,000	2,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	1,000	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	2,000	*	S	S	S	S	S	S	S
White	31,000	6,000	6,000	3,000	4,000	4,000	3,000	1,000	4,000
Other	1,000	S	S	S	S	S	S	S	S
Chemical engineers	21,000	5,000	3,000	3,000	3,000	1,000	3,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	2,000	S	S	S	1,000	1,000	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	*	*	S	S	S	S	S	S	S
White	14,000	3,000	2,000	2,000	2,000	S	2,000	1,000	1,000
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	68,000	15,000	13,000	9,000	7,000	7,000	6,000	6,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	11,000	3,000	2,000	2,000	*	1,000	1,000	1,000	1,000
Black	2,000	*	S	S	S	S	S	S	S
Hispanic	4,000	1,000	1,000	S	S	S	S	S	S
White	50,000	10,000	10,000	6,000	7,000	6,000	5,000	5,000	2,000
Other	1,000	S	S	S	S	S	S	S	S
Electrical/computer hardware engineers	118,000	27,000	26,000	20,000	17,000	11,000	8,000	6,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	32,000	10,000	8,000	4,000	5,000	2,000	1,000	1,000	S
Black	3,000	2,000	1,000	S	S	S	S	S	S
Hispanic	4,000	1,000	2,000	1,000	S	S	S	S	S
White	77,000	13,000	15,000	15,000	12,000	9,000	6,000	5,000	3,000
Other	2,000	1,000	S	S	S	S	S	S	S
Industrial engineers	23,000	8,000	6,000	3,000	1,000	1,000	2,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	2,000	1,000	S	S	S	S	S	S
Black	1,000	S	S	S	S	S	S	S	S
Hispanic	2,000	1,000	1,000	S	S	S	S	S	S
White	16,000	5,000	3,000	3,000	1,000	1,000	2,000	1,000	S
Other	S	S	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Mechanical engineers	74,000	23,000	14,000	12,000	8,000	7,000	5,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	12,000	5,000	3,000	1,000	1,000	*	*	1,000	S
Black	1,000	*	S	S	S	S	S	S	S
Hispanic	2,000	1,000	1,000	S	S	S	S	S	S
White	58,000	16,000	10,000	10,000	7,000	7,000	4,000	3,000	2,000
Other	1,000	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	8,000	3,000	S	S	1,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	6,000	2,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other engineers	102,000	22,000	19,000	13,000	18,000	9,000	9,000	9,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	13,000	4,000	3,000	2,000	1,000	S	S	2,000	S
Black	3,000	1,000	1,000	S	S	S	S	S	S
Hispanic	5,000	2,000	1,000	1,000	S	S	S	S	S
White	80,000	16,000	15,000	10,000	15,000	7,000	8,000	7,000	3,000
Other	*	S	S	S	S	S	S	S	S
S&E-related occupations	1,228,000	325,000	259,000	179,000	159,000	127,000	97,000	56,000	27,000
American Indian/Alaska Native	4,000	1,000	S	S	S	S	S	S	S
Asian	88,000	22,000	21,000	14,000	13,000	9,000	5,000	3,000	2,000
Black	68,000	24,000	12,000	12,000	8,000	6,000	3,000	1,000	S
Hispanic	45,000	16,000	7,000	8,000	7,000	3,000	3,000	1,000	S
White	1,008,000	256,000	216,000	143,000	129,000	106,000	84,000	50,000	23,000
Other	15,000	6,000	2,000	1,000	2,000	2,000	1,000	S	S
Health-related occupations	599,000	177,000	141,000	82,000	74,000	58,000	41,000	18,000	8,000
American Indian/Alaska Native	3,000	S	S	S	S	S	S	S	S
Asian	40,000	12,000	3,000	7,000	6,000	5,000	2,000	2,000	1,000
Black	34,000	12,000	8,000	6,000	5,000	3,000	S	S	S
Hispanic	22,000	7,000	4,000	4,000	5,000	S	S	S	S
White	494,000	142,000	125,000	65,000	57,000	47,000	37,000	15,000	6,000
Other	7,000	4,000	S	S	S	S	S	S	S
S&E managers	135,000	19,000	27,000	28,000	21,000	18,000	11,000	9,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	11,000	2,000	3,000	3,000	2,000	1,000	S	S	S
Black	3,000	1,000	S	1,000	S	S	S	S	S
Hispanic	5,000	1,000	S	2,000	S	S	S	S	S
White	114,000	14,000	23,000	22,000	18,000	16,000	11,000	9,000	2,000
Other	2,000	S	S	S	S	S	S	S	S
S&E precollege teachers	341,000	104,000	57,000	49,000	37,000	33,000	32,000	19,000	9,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	7,000	3,000	2,000	1,000	S	S	1,000	S	S
Black	25,000	10,000	3,000	4,000	2,000	2,000	1,000	1,000	S
Hispanic	13,000	5,000	1,000	2,000	1,000	S	S	S	S
White	291,000	84,000	50,000	42,000	33,000	29,000	28,000	17,000	7,000
Other	5,000	2,000	S	S	S	S	S	S	S
S&E technicians/technologists	89,000	17,000	23,000	10,000	16,000	8,000	7,000	6,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Asian	25,000	4,000	11,000	3,000	3,000	2,000	2,000	S	S
Black	3,000	1,000	1,000	S	S	S	S	S	S
Hispanic	3,000	1,000	1,000	S	S	S	S	S	S
White	58,000	11,000	11,000	6,000	13,000	6,000	5,000	5,000	2,000
Other	S	S	S	S	S	S	S	S	S
Other S&E-related occupations	62,000	7,000	11,000	10,000	10,000	10,000	4,000	4,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	1,000	2,000	S	S	S	S	S	S
Black	2,000	S	S	S	S	S	S	S	S
Hispanic	3,000	S	S	S	S	S	S	S	S
White	52,000	5,000	8,000	8,000	8,000	9,000	4,000	4,000	6,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E occupations	2,328,000	436,000	456,000	350,000	292,000	269,000	275,000	162,000	89,000
American Indian/Alaska Native	13,000	2,000	2,000	3,000	S	S	4,000	S	S
Asian	150,000	35,000	31,000	22,000	16,000	16,000	14,000	10,000	4,000
Black	175,000	50,000	41,000	22,000	19,000	14,000	20,000	7,000	1,000
Hispanic	120,000	31,000	26,000	18,000	19,000	13,000	9,000	2,000	1,000
White	1,836,000	310,000	340,000	283,000	235,000	224,000	225,000	139,000	82,000
Other	34,000	8,000	15,000	2,000	3,000	2,000	2,000	3,000	S
Art/humanities/related occupations	74,000	7,000	17,000	16,000	9,000	7,000	7,000	6,000	5,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	S	S	S	S	S	S
Black	3,000	*	S	S	S	S	S	S	S
Hispanic	3,000	1,000	S	S	S	S	S	S	S
White	65,000	6,000	17,000	14,000	8,000	6,000	5,000	5,000	4,000
Other	S	S	S	S	S	S	S	S	S
Management-related occupations	457,000	73,000	92,000	68,000	63,000	53,000	57,000	31,000	21,000
American Indian/Alaska Native	5,000	S	S	S	S	S	S	S	S
Asian	50,000	12,000	11,000	6,000	6,000	7,000	5,000	3,000	S
Black	36,000	6,000	10,000	7,000	5,000	S	6,000	S	S
Hispanic	22,000	6,000	5,000	3,000	6,000	S	S	S	S
White	337,000	48,000	63,000	51,000	46,000	43,000	42,000	25,000	21,000
Other	7,000	1,000	3,000	S	S	S	S	S	S
Non-S&E managers	362,000	44,000	61,000	64,000	53,000	52,000	52,000	21,000	15,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S	S
Asian	18,000	4,000	3,000	3,000	3,000	2,000	3,000	S	S
Black	21,000	5,000	6,000	3,000	2,000	1,000	3,000	1,000	S
Hispanic	14,000	2,000	2,000	3,000	2,000	2,000	1,000	S	S
White	303,000	30,000	48,000	55,000	45,000	47,000	45,000	18,000	15,000
Other	5,000	S	S	S	S	S	S	S	S
Non-S&E postsecondary teachers	63,000	21,000	11,000	7,000	6,000	3,000	9,000	3,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	1,000	S	S	S	S	S	S	S
Black	4,000	1,000	S	S	S	S	S	S	S
Hispanic	5,000	4,000	S	S	S	S	S	S	S
White	49,000	14,000	8,000	6,000	6,000	2,000	8,000	3,000	2,000
Other	1,000	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	283,000	73,000	52,000	37,000	34,000	32,000	33,000	17,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	8,000	3,000	1,000	S	S	1,000	S	S	S
Black	28,000	10,000	5,000	S	5,000	3,000	4,000	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Hispanic	14,000	7,000	2,000	S	S	S	S	S	S
White	229,000	52,000	43,000	34,000	27,000	25,000	28,000	16,000	4,000
Other	3,000	2,000	S	S	S	S	S	S	S
Sales/marketing occupations	304,000	42,000	66,000	40,000	30,000	38,000	42,000	28,000	17,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	27,000	4,000	6,000	6,000	2,000	3,000	S	2,000	S
Black	12,000	5,000	3,000	S	S	S	S	S	S
Hispanic	16,000	2,000	4,000	3,000	3,000	3,000	S	S	S
White	239,000	31,000	46,000	30,000	23,000	31,000	38,000	24,000	16,000
Other	8,000	S	S	S	S	S	S	S	S
Social services/related occupations	353,000	94,000	81,000	53,000	41,000	32,000	29,000	15,000	8,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S	S
Asian	9,000	4,000	2,000	1,000	S	S	S	S	S
Black	39,000	17,000	7,000	4,000	4,000	3,000	3,000	S	S
Hispanic	24,000	7,000	6,000	5,000	2,000	3,000	1,000	S	S
White	272,000	64,000	62,000	42,000	33,000	26,000	25,000	14,000	7,000
Other	6,000	2,000	2,000	S	S	S	S	S	S
Other non-S&E occupations	432,000	80,000	76,000	65,000	56,000	53,000	46,000	41,000	15,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	33,000	7,000	7,000	6,000	3,000	2,000	3,000	3,000	2,000
Black	31,000	5,000	10,000	4,000	1,000	5,000	4,000	S	S
Hispanic	21,000	3,000	5,000	3,000	4,000	2,000	3,000	S	S
White	342,000	65,000	54,000	51,000	47,000	44,000	35,000	35,000	12,000
Other	4,000	*	S	S	S	S	S	S	S
Doctorate degrees, all occupations	885,000	167,000	168,000	133,000	109,000	108,000	81,000	76,000	42,000
American Indian/Alaska Native	1,000	*	*	*	*	S	S	S	S
Asian	148,000	36,000	39,000	27,000	17,000	12,000	8,000	6,000	3,000
Black	33,000	10,000	6,000	5,000	3,000	4,000	2,000	1,000	*
Hispanic	30,000	8,000	7,000	5,000	3,000	3,000	2,000	2,000	1,000
White	664,000	111,000	114,000	94,000	84,000	88,000	68,000	67,000	37,000
Other	10,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	*
S&E occupations	558,000	115,000	111,000	86,000	68,000	60,000	50,000	41,000	26,000
American Indian/Alaska Native	1,000	*	*	S	*	S	S	S	S
Asian	112,000	30,000	31,000	19,000	12,000	8,000	5,000	4,000	2,000
Black	17,000	7,000	3,000	2,000	2,000	1,000	1,000	1,000	*
Hispanic	17,000	5,000	5,000	3,000	2,000	1,000	1,000	1,000	*
White	405,000	72,000	70,000	61,000	52,000	48,000	42,000	36,000	24,000
Other	6,000	1,000	2,000	1,000	1,000	1,000	1,000	*	*
Scientists	465,000	95,000	90,000	72,000	58,000	52,000	42,000	33,000	21,000
American Indian/Alaska Native	1,000	*	*	S	*	S	S	S	S
Asian	83,000	23,000	23,000	15,000	9,000	6,000	3,000	2,000	1,000
Black	16,000	7,000	3,000	2,000	2,000	1,000	1,000	*	*
Hispanic	14,000	4,000	4,000	2,000	1,000	1,000	1,000	*	*
White	346,000	61,000	59,000	52,000	45,000	44,000	37,000	30,000	19,000
Other	5,000	1,000	1,000	1,000	*	1,000	*	*	*
Biological/agricultural/other life scientists	148,000	33,000	31,000	25,000	19,000	15,000	11,000	9,000	5,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	34,000	10,000	10,000	6,000	4,000	2,000	1,000	1,000	*
Black	4,000	2,000	1,000	1,000	*	*	*	S	*
Hispanic	5,000	2,000	2,000	1,000	*	*	*	*	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	103,000	20,000	18,000	17,000	14,000	12,000	9,000	8,000	5,000
Other	2,000	*	*	*	S	*	S	S	S
Agricultural/food scientists	9,000	1,000	1,000	2,000	2,000	1,000	1,000	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	*	*	*	*	S	S	S	S
Black	*	*	S	S	S	S	S	S	S
Hispanic	*	S	*	*	S	S	S	S	S
White	7,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	*
Other	*	S	S	S	S	S	S	S	S
Biological/medical scientists	103,000	29,000	23,000	17,000	12,000	9,000	6,000	4,000	3,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	30,000	9,000	9,000	6,000	3,000	2,000	1,000	1,000	S
Black	2,000	1,000	*	*	*	S	S	S	S
Hispanic	4,000	1,000	1,000	*	*	*	*	S	S
White	66,000	16,000	12,000	10,000	8,000	7,000	5,000	4,000	3,000
Other	1,000	*	*	*	S	S	S	S	S
Environmental life scientists	2,000	*	*	1,000	*	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	*	S	*	*	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	34,000	3,000	6,000	6,000	5,000	4,000	4,000	4,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	*	1,000	*	1,000	*	*	S	S
Black	1,000	*	*	*	*	*	*	S	S
Hispanic	1,000	*	*	*	*	S	*	S	S
White	29,000	2,000	5,000	5,000	4,000	4,000	4,000	3,000	2,000
Other	1,000	S	*	S	S	S	S	S	S
Computer/mathematical scientists	86,000	20,000	18,000	13,000	11,000	9,000	7,000	6,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	23,000	6,000	7,000	4,000	3,000	1,000	1,000	1,000	*
Black	4,000	3,000	1,000	*	*	*	*	*	S
Hispanic	2,000	*	*	*	*	*	*	S	S
White	56,000	10,000	10,000	8,000	7,000	7,000	5,000	6,000	3,000
Other	1,000	*	*	S	*	S	S	S	S
Computer/information scientists	43,000	9,000	11,000	6,000	5,000	5,000	3,000	3,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	14,000	4,000	5,000	2,000	1,000	1,000	1,000	S	S
Black	1,000	1,000	*	S	S	S	S	S	S
Hispanic	1,000	*	*	*	S	S	S	S	S
White	26,000	4,000	5,000	4,000	3,000	4,000	2,000	2,000	1,000
Other	*	*	S	S	S	S	S	S	S
Mathematical scientists	11,000	3,000	2,000	2,000	1,000	1,000	1,000	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	1,000	1,000	1,000	*	S	S	S	S
Black	*	*	S	S	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	7,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	*
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	33,000	8,000	5,000	4,000	4,000	3,000	3,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	1,000	1,000	1,000	1,000	*	*	*	S
Black	3,000	2,000	*	*	*	*	*	*	S
Hispanic	1,000	*	*	*	*	S	S	S	S
White	23,000	4,000	4,000	3,000	3,000	3,000	2,000	3,000	2,000
Other	*	S	S	S	S	S	S	S	S
Physical/related scientists	91,000	16,000	16,000	14,000	11,000	10,000	8,000	7,000	7,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	17,000	4,000	4,000	3,000	2,000	2,000	1,000	1,000	1,000
Black	1,000	1,000	*	*	*	*	*	S	S
Hispanic	2,000	*	*	*	*	*	*	S	S
White	69,000	11,000	12,000	10,000	9,000	8,000	7,000	6,000	6,000
Other	1,000	*	*	*	S	*	S	S	S
Chemists, except biochemists	30,000	6,000	6,000	5,000	3,000	4,000	3,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	8,000	2,000	2,000	1,000	1,000	1,000	*	*	*
Black	1,000	*	*	S	*	S	S	S	S
Hispanic	1,000	*	*	*	S	S	S	S	S
White	20,000	4,000	3,000	3,000	2,000	3,000	2,000	2,000	1,000
Other	*	*	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	10,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	1,000	*	*	*	S	S	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	*	*	*	S	S	S	*	S	S
White	8,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Other	*	S	S	S	S	S	S	S	S
Physicists/astronomers	17,000	4,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	1,000	*	1,000	*	*	*	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	*	*	S	S	S	S	S	S	S
White	13,000	3,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000
Other	*	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	30,000	4,000	5,000	4,000	4,000	3,000	3,000	3,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	*	*	*	*	*	*	*	*
Black	1,000	*	*	*	*	S	*	S	S
Hispanic	1,000	*	*	*	*	*	S	S	S
White	25,000	4,000	4,000	4,000	4,000	3,000	2,000	3,000	3,000
Other	*	*	S	S	S	S	S	S	S
Other physical/related scientists	4,000	1,000	1,000	1,000	S	1,000	*	S	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	*	*	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	3,000	*	1,000	*	S	*	*	S	*
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	140,000	26,000	25,000	21,000	17,000	19,000	17,000	11,000	5,000
American Indian/Alaska Native	*	*	*	S	S	S	S	S	S
Asian	8,000	2,000	2,000	1,000	1,000	1,000	*	*	S
Black	6,000	2,000	1,000	1,000	*	1,000	1,000	*	S
Hispanic	5,000	1,000	1,000	1,000	*	*	*	*	S
White	118,000	20,000	19,000	17,000	15,000	16,000	15,000	10,000	5,000
Other	2,000	*	1,000	*	*	*	*	*	S
Economists	9,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	*	*	*	S	S	S	S	S
Black	*	*	*	S	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S	S
White	7,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	*
Other	*	S	S	S	S	S	S	S	S
Political/related scientists	2,000	*	*	*	S	S	*	S	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	1,000	*	*	S	S	S	S	S	*
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	64,000	12,000	11,000	9,000	7,000	8,000	8,000	6,000	3,000
American Indian/Alaska Native	*	S	*	S	S	S	S	S	S
Asian	5,000	2,000	1,000	1,000	1,000	1,000	*	*	S
Black	3,000	1,000	1,000	1,000	*	*	*	*	S
Hispanic	2,000	1,000	1,000	*	*	*	S	S	S
White	52,000	9,000	8,000	7,000	6,000	7,000	7,000	5,000	3,000
Other	1,000	*	1,000	S	*	S	S	S	S
Psychologists	55,000	9,000	9,000	9,000	8,000	8,000	6,000	3,000	2,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	1,000	*	*	*	*	*	S	S	S
Black	2,000	1,000	*	*	*	*	*	S	S
Hispanic	2,000	*	1,000	*	*	*	S	S	S
White	49,000	7,000	7,000	9,000	7,000	7,000	6,000	3,000	2,000
Other	1,000	*	*	*	*	*	S	S	S
Sociologists/anthropologists	5,000	2,000	1,000	*	1,000	*	*	*	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	*	S	S	S	S	S	S	S	S
Black	*	*	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	5,000	1,000	1,000	*	1,000	*	*	*	S
Other	*	S	S	S	S	S	S	S	S
Other social/related scientists	6,000	1,000	2,000	1,000	1,000	*	1,000	*	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	*	*	S	S	S	S	S	S
Black	1,000	*	*	S	S	S	S	S	S
Hispanic	*	S	*	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	5,000	1,000	1,000	1,000	*	*	1,000	*	S
Other	*	S	S	S	S	S	S	S	S
Engineers	93,000	19,000	21,000	14,000	10,000	7,000	8,000	8,000	5,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	29,000	7,000	8,000	5,000	3,000	2,000	2,000	1,000	1,000
Black	2,000	*	*	*	*	*	*	S	S
Hispanic	3,000	1,000	1,000	*	*	*	*	S	S
White	59,000	11,000	12,000	8,000	7,000	5,000	6,000	7,000	5,000
Other	1,000	*	*	S	S	*	S	S	S
Aerospace/aeronautical/astronautical engineers	5,000	1,000	1,000	1,000	1,000	*	*	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	S	*	*	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	4,000	1,000	1,000	1,000	*	*	*	1,000	1,000
Other	S	S	S	S	S	S	S	S	S
Chemical engineers	9,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	*	1,000	1,000	*	S	*	S	S
Black	*	*	S	S	S	S	S	S	S
Hispanic	1,000	*	S	S	S	S	S	S	S
White	5,000	1,000	1,000	1,000	*	1,000	1,000	1,000	*
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	5,000	1,000	1,000	1,000	1,000	*	*	*	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	*	*	*	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	3,000	1,000	1,000	*	*	*	*	*	*
Other	S	S	S	S	S	S	S	S	S
Electrical/computer hardware engineers	21,000	5,000	6,000	3,000	2,000	1,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	9,000	2,000	3,000	1,000	1,000	*	1,000	S	S
Black	*	*	*	S	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S	S
White	11,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000
Other	*	S	S	S	S	S	S	S	S
Industrial engineers	2,000	1,000	*	*	*	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	*	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	S	S	S	*	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Mechanical engineers	10,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	1,000	1,000	1,000	*	S	*	*	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	5,000	1,000	1,000	1,000	1,000	*	*	1,000	*
Other	S	S	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Postsecondary teachers-engineering	20,000	3,000	3,000	3,000	3,000	2,000	2,000	2,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	1,000	*	1,000	1,000	1,000	1,000	*	*
Black	1,000	*	*	*	*	S	*	S	S
Hispanic	1,000	*	*	*	*	S	*	S	S
White	14,000	2,000	3,000	2,000	2,000	1,000	2,000	1,000	1,000
Other	*	S	S	S	S	S	S	S	S
Other engineers	22,000	5,000	6,000	3,000	2,000	2,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	7,000	2,000	2,000	1,000	1,000	1,000	*	*	S
Black	*	*	S	S	S	S	S	S	S
Hispanic	1,000	*	*	*	S	S	S	S	S
White	14,000	3,000	3,000	2,000	1,000	1,000	1,000	1,000	1,000
Other	*	S	S	S	S	S	S	S	S
S&E-related occupations	105,000	20,000	18,000	16,000	14,000	17,000	8,000	9,000	4,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	14,000	3,000	3,000	3,000	2,000	1,000	1,000	1,000	*
Black	4,000	1,000	1,000	1,000	1,000	*	*	*	S
Hispanic	4,000	1,000	*	1,000	*	1,000	*	S	S
White	82,000	15,000	13,000	11,000	11,000	15,000	7,000	8,000	3,000
Other	1,000	*	*	*	*	S	S	S	S
Health-related occupations	57,000	14,000	8,000	8,000	7,000	9,000	4,000	4,000	3,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	7,000	1,000	2,000	1,000	1,000	*	*	*	*
Black	2,000	*	*	1,000	*	S	*	S	S
Hispanic	3,000	1,000	*	*	*	1,000	*	S	S
White	44,000	12,000	6,000	5,000	6,000	7,000	3,000	3,000	2,000
Other	1,000	*	*	*	S	S	S	S	S
S&E managers	26,000	1,000	4,000	5,000	5,000	4,000	3,000	4,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	*	1,000	1,000	1,000	*	*	*	S
Black	1,000	*	*	*	*	S	S	S	S
Hispanic	1,000	S	S	*	*	S	S	S	S
White	21,000	1,000	3,000	3,000	4,000	4,000	3,000	3,000	1,000
Other	*	S	S	S	*	S	S	S	S
S&E precollege teachers	12,000	2,000	3,000	2,000	1,000	2,000	1,000	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	*	S	S	S	S	S	S	S	S
Black	1,000	*	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	10,000	1,000	3,000	1,000	1,000	2,000	1,000	1,000	*
Other	S	S	S	S	S	S	S	S	S
S&E technicians/technologists	8,000	2,000	2,000	1,000	1,000	*	*	*	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	1,000	1,000	*	*	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	5,000	*	2,000	1,000	1,000	*	*	*	*
Other	S	S	S	S	S	S	S	S	S
Other S&E-related occupations	3,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Asian	*	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E occupations	222,000	33,000	39,000	32,000	28,000	32,000	22,000	26,000	11,000
American Indian/Alaska Native	*	*	S	S	S	S	S	S	S
Asian	22,000	4,000	4,000	4,000	4,000	3,000	2,000	2,000	*
Black	12,000	3,000	2,000	2,000	1,000	3,000	1,000	*	S
Hispanic	9,000	2,000	2,000	2,000	2,000	1,000	*	1,000	S
White	177,000	24,000	31,000	23,000	21,000	25,000	19,000	23,000	10,000
Other	2,000	1,000	*	*	*	*	*	S	S
Art/humanities/related occupations	10,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	*	*	S	S	S	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	8,000	1,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000
Other	S	S	S	S	S	S	S	S	S
Management-related occupations	31,000	6,000	6,000	4,000	4,000	5,000	2,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	*	1,000	1,000	*	1,000	*	1,000	S
Black	1,000	*	*	*	S	1,000	*	S	S
Hispanic	1,000	*	*	*	S	S	S	S	S
White	24,000	5,000	4,000	3,000	4,000	4,000	2,000	2,000	2,000
Other	*	S	S	S	S	S	S	S	S
Non-S&E managers	74,000	6,000	11,000	11,000	9,000	15,000	11,000	9,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	*	1,000	1,000	1,000	1,000	1,000	1,000	*
Black	4,000	*	*	1,000	*	1,000	1,000	*	S
Hispanic	2,000	*	*	*	*	*	*	*	S
White	63,000	4,000	9,000	9,000	8,000	12,000	9,000	8,000	3,000
Other	*	S	S	*	S	S	S	S	S
Non-S&E postsecondary teachers	46,000	11,000	12,000	5,000	6,000	5,000	3,000	3,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	1,000	1,000	1,000	1,000	S	S	S	S
Black	3,000	1,000	1,000	*	*	*	*	S	S
Hispanic	2,000	1,000	1,000	*	*	*	*	S	S
White	36,000	7,000	10,000	3,000	5,000	5,000	3,000	3,000	1,000
Other	1,000	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	8,000	1,000	1,000	2,000	1,000	1,000	S	2,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	*	S	S	S	S	S	S	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S
White	6,000	*	1,000	1,000	1,000	*	S	2,000	S
Other	S	S	S	S	S	S	S	S	S
Sales/marketing occupations	18,000	4,000	2,000	1,000	3,000	1,000	3,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	*	*	*	2,000	S	*	S	S
Black	*	S	S	S	S	S	S	S	S

TABLE 20. Employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Hispanic	*	S	S	S	S	S	S	S	S
White	14,000	3,000	1,000	1,000	1,000	1,000	3,000	2,000	2,000
Other	S	S	S	S	S	S	S	S	S
Social services/related occupations	12,000	2,000	3,000	4,000	1,000	1,000	1,000	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	*	S	S	S	S	S	S	S
Black	2,000	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S
White	8,000	1,000	2,000	3,000	1,000	1,000	*	1,000	*
Other	*	S	S	S	S	S	S	S	S
Other non-S&E occupations	23,000	2,000	3,000	3,000	3,000	3,000	2,000	4,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	*	*	1,000	*	1,000	S	S	S
Black	1,000	S	*	*	S	S	S	S	S
Hispanic	2,000	S	*	S	S	S	S	S	S
White	17,000	2,000	3,000	2,000	2,000	2,000	1,000	4,000	2,000
Other	1,000	S	S	S	S	S	S	S	S

* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] "Other" includes Native Hawaiian/Other Pacific Islander and non-Hispanic respondents reporting 2 or more races.

[b] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
All degree levels and fields[a]	60,000	66,000	70,000	56,000	50,000	45,000	50,000	43,000	57,000	70,000	50,000
Male	70,000	75,000	76,000	62,000	60,000	50,000	56,000	47,000	61,000	72,000	55,000
Female	49,000	51,000	55,000	44,000	46,000	43,000	45,000	42,000	50,000	62,000	45,000
S&E fields	60,000	65,000	68,000	40,000	41,000	42,000	47,000	40,000	55,000	68,000	49,000
Male	67,000	71,000	74,000	45,000	55,000	50,000	54,000	42,000	60,000	72,000	52,000
Female	44,000	47,000	51,000	32,000	37,000	38,000	40,000	37,000	46,000	60,000	42,000
Sciences	52,000	58,000	60,000	40,000	40,000	42,000	46,000	40,000	50,000	63,000	45,000
Male	60,000	65,000	70,000	41,000	50,000	49,000	52,000	42,000	55,000	68,000	50,000
Female	42,000	45,000	48,000	31,000	37,000	38,000	40,000	37,000	44,000	58,000	40,000
Biological/agricultural/environmental life sciences	46,000	48,000	50,000	32,000	42,000	41,000	42,000	39,000	50,000	60,000	45,000
Male	50,000	52,000	55,000	35,000	51,000	46,000	48,000	39,000	51,000	64,000	48,000
Female	41,000	43,000	45,000	25,000	38,000	37,000	36,000	39,000	46,000	53,000	42,000
Agricultural/food sciences	43,000	43,000	46,000	25,000	34,000	40,000	43,000	34,000	49,000	60,000	40,000
Male	44,000	44,000	47,000	25,000	49,000	50,000	52,000	37,000	45,000	60,000	40,000
Female	40,000	43,000	45,000	S	S	35,000	36,000	30,000	49,000	63,000	38,000
Biological sciences	48,000	50,000	52,000	45,000	43,000	42,000	42,000	40,000	50,000	61,000	46,000
Male	52,000	60,000	60,000	50,000	53,000	46,000	47,000	40,000	53,000	69,000	49,000
Female	41,000	43,000	46,000	35,000	40,000	38,000	35,000	40,000	47,000	54,000	42,000
Environmental life sciences	45,000	48,000	53,000	18,000	34,000	38,000	40,000	35,000	45,000	50,000	44,000
Male	51,000	54,000	60,000	15,000	55,000	40,000	42,000	S	48,000	51,000	43,000
Female	40,000	40,000	43,000	S	34,000	35,000	33,000	S	43,000	30,000	44,000
Computer/mathematical sciences	68,000	73,000	75,000	31,000	60,000	44,000	53,000	39,000	60,000	67,000	51,000
Male	72,000	78,000	80,000	40,000	66,000	49,000	55,000	41,000	60,000	73,000	55,000
Female	58,000	63,000	65,000	24,000	49,000	40,000	45,000	37,000	54,000	62,000	49,000
Computer/information sciences	70,000	74,000	75,000	32,000	60,000	46,000	53,000	40,000	59,000	69,000	51,000
Male	75,000	78,000	80,000	40,000	68,000	49,000	54,000	42,000	62,000	76,000	55,000
Female	60,000	65,000	66,000	S	50,000	43,000	48,000	38,000	52,000	62,000	47,000
Mathematical sciences	60,000	70,000	73,000	30,000	48,000	42,000	51,000	38,000	60,000	64,000	52,000
Male	68,000	76,000	78,000	39,000	58,000	49,000	57,000	40,000	60,000	64,000	56,000
Female	50,000	60,000	65,000	S	48,000	40,000	45,000	35,000	55,000	65,000	50,000
Physical/related sciences	62,000	70,000	70,000	40,000	70,000	47,000	50,000	42,000	58,000	70,000	50,000
Male	67,000	72,000	75,000	40,000	100,000	53,000	56,000	48,000	62,000	75,000	55,000
Female	46,000	52,000	55,000	35,000	40,000	37,000	40,000	34,000	46,000	58,000	38,000
Chemistry, except biochemistry	60,000	66,000	68,000	40,000	65,000	45,000	44,000	45,000	62,000	70,000	52,000

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	65,000	70,000	70,000	40,000	100,000	49,000	49,000	48,000	62,000	79,000	58,000
Female	48,000	55,000	56,000	S	45,000	38,000	33,000	45,000	55,000	70,000	36,000
Earth/atmospheric/ocean sciences	58,000	63,000	66,000	40,000	57,000	51,000	54,000	45,000	54,000	65,000	49,000
Male	60,000	63,000	66,000	41,000	180,000	59,000	57,000	59,000	58,000	69,000	50,000
Female	43,000	50,000	60,000	S	S	40,000	40,000	34,000	42,000	48,000	38,000
Physics/astronomy	75,000	84,000	85,000	70,000	90,000	50,000	58,000	36,000	90,000	90,000	72,000
Male	80,000	85,000	85,000	70,000	96,000	55,000	61,000	46,000	99,000	99,000	90,000
Female	46,000	64,000	66,000	S	S	23,000	52,000	15,000	40,000	40,000	S
Other physical sciences	50,000	50,000	65,000	S	S	40,000	46,000	S	51,000	52,000	51,000
Male	69,000	72,000	74,000	S	S	65,000	S	S	51,000	50,000	S
Female	35,000	33,000	33,000	S	S	40,000	40,000	S	28,000	S	S
Social/related sciences	48,000	50,000	55,000	40,000	37,000	40,000	46,000	39,000	49,000	62,000	43,000
Male	57,000	60,000	63,000	45,000	42,000	49,000	55,000	42,000	52,000	70,000	48,000
Female	40,000	40,000	43,000	35,000	35,000	38,000	41,000	37,000	43,000	58,000	40,000
Economics	63,000	65,000	65,000	60,000	70,000	52,000	67,000	40,000	60,000	70,000	52,000
Male	69,000	70,000	72,000	65,000	74,000	62,000	70,000	42,000	62,000	73,000	50,000
Female	51,000	51,000	52,000	S	56,000	40,000	50,000	40,000	59,000	56,000	60,000
Political/related sciences	55,000	60,000	64,000	40,000	40,000	40,000	48,000	32,000	57,000	72,000	51,000
Male	63,000	65,000	70,000	50,000	52,000	45,000	50,000	38,000	61,000	73,000	52,000
Female	43,000	43,000	48,000	35,000	36,000	33,000	48,000	29,000	48,000	60,000	44,000
Psychology	43,000	44,000	50,000	45,000	37,000	42,000	45,000	41,000	42,000	59,000	41,000
Male	53,000	59,000	60,000	45,000	44,000	52,000	57,000	50,000	47,000	57,000	42,000
Female	40,000	39,000	40,000	40,000	36,000	40,000	41,000	40,000	41,000	59,000	38,000
Sociology/anthropology	40,000	40,000	41,000	40,000	32,000	35,000	40,000	32,000	45,000	58,000	42,000
Male	45,000	45,000	47,000	50,000	35,000	42,000	54,000	35,000	48,000	62,000	45,000
Female	35,000	35,000	37,000	25,000	32,000	34,000	36,000	30,000	43,000	54,000	38,000
Other social sciences	44,000	45,000	52,000	33,000	32,000	40,000	45,000	37,000	47,000	50,000	42,000
Male	49,000	49,000	55,000	33,000	35,000	48,000	46,000	48,000	50,000	50,000	50,000
Female	40,000	41,000	48,000	30,000	32,000	37,000	45,000	33,000	42,000	70,000	35,000
Engineering	75,000	77,000	78,000	52,000	73,000	53,000	60,000	40,000	70,000	76,000	62,000
Male	76,000	79,000	80,000	50,000	75,000	60,000	65,000	49,000	71,000	77,000	63,000
Female	65,000	68,000	68,000	52,000	53,000	39,000	45,000	37,000	62,000	70,000	55,000
Aerospace/related engineering	75,000	78,000	78,000	S	102,000	45,000	45,000	S	70,000	74,000	S
Male	77,000	80,000	80,000	S	S	52,000	55,000	S	70,000	74,000	S

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	61,000	66,000	53,000	S	S	S	S	S	78,000	78,000	S
Chemical engineering	80,000	84,000	85,000	28,000	75,000	37,000	34,000	S	66,000	67,000	64,000
Male	85,000	86,000	88,000	28,000	S	30,000	30,000	S	67,000	67,000	57,000
Female	65,000	67,000	68,000	S	S	39,000	37,000	S	64,000	87,000	S
Civil/architectural engineering	70,000	70,000	70,000	60,000	65,000	60,000	65,000	37,000	67,000	76,000	64,000
Male	70,000	73,000	73,000	60,000	65,000	60,000	70,000	S	69,000	79,000	65,000
Female	56,000	55,000	55,000	S	S	35,000	52,000	S	60,000	67,000	59,000
Electrical/computer engineering	80,000	80,000	82,000	50,000	75,000	54,000	62,000	40,000	72,000	76,000	56,000
Male	80,000	81,000	83,000	50,000	78,000	58,000	63,000	43,000	72,000	77,000	60,000
Female	75,000	78,000	78,000	S	S	39,000	54,000	S	60,000	70,000	S
Industrial engineering	73,000	75,000	75,000	S	S	56,000	66,000	S	60,000	72,000	S
Male	74,000	75,000	75,000	S	S	64,000	67,000	S	68,000	69,000	S
Female	63,000	70,000	70,000	S	S	39,000	54,000	S	39,000	S	S
Mechanical engineering	75,000	75,000	75,000	52,000	79,000	60,000	72,000	40,000	79,000	86,000	65,000
Male	75,000	75,000	75,000	60,000	90,000	68,000	72,000	50,000	80,000	86,000	67,000
Female	63,000	65,000	68,000	S	S	31,000	49,000	S	51,000	S	S
Other engineering	70,000	72,000	74,000	50,000	55,000	52,000	60,000	49,000	65,000	72,000	58,000
Male	72,000	75,000	75,000	50,000	55,000	57,000	63,000	49,000	68,000	75,000	58,000
Female	60,000	60,000	60,000	S	S	40,000	38,000	S	65,000	65,000	55,000
S&E-related fields	60,000	66,000	70,000	80,000	56,000	49,000	56,000	44,000	58,000	65,000	53,000
Male	76,000	83,000	82,000	95,000	80,000	52,000	65,000	46,000	61,000	66,000	60,000
Female	52,000	55,000	55,000	60,000	53,000	47,000	53,000	43,000	55,000	65,000	49,000
Health	62,000	70,000	73,000	95,000	56,000	50,000	58,000	42,000	58,000	65,000	51,000
Male	95,000	100,000	100,000	120,000	86,000	69,000	76,000	46,000	65,000	70,000	60,000
Female	54,000	55,000	55,000	62,000	53,000	49,000	54,000	42,000	55,000	65,000	49,000
Science/mathematics teacher education	45,000	40,000	46,000	S	S	45,000	46,000	45,000	53,000	S	43,000
Male	47,000	45,000	57,000	S	S	47,000	61,000	47,000	54,000	S	S
Female	43,000	32,000	32,000	S	S	44,000	45,000	44,000	S	S	S
Technology/technical fields	65,000	65,000	66,000	50,000	60,000	50,000	51,000	48,000	52,000	61,000	50,000
Male	65,000	65,000	65,000	50,000	60,000	46,000	51,000	40,000	50,000	61,000	50,000
Female	65,000	65,000	70,000	S	S	S	S	S	S	S	S
Other S&E-related fields	60,000	62,000	63,000	50,000	S	49,000	52,000	S	65,000	70,000	65,000
Male	65,000	65,000	66,000	50,000	S	54,000	55,000	S	65,000	S	65,000
Female	49,000	49,000	50,000	S	S	S	S	S	62,000	S	60,000

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Non-S&E fields	62,000	72,000	76,000	65,000	50,000	47,000	48,000	46,000	61,000	77,000	55,000
Male	70,000	80,000	81,000	72,000	51,000	50,000	52,000	50,000	69,000	79,000	62,000
Female	50,000	58,000	62,000	45,000	48,000	45,000	45,000	44,000	53,000	72,000	50,000
Arts/humanities	55,000	60,000	65,000	52,000	44,000	45,000	45,000	42,000	53,000	62,000	50,000
Male	60,000	68,000	70,000	62,000	44,000	47,000	45,000	50,000	59,000	55,000	60,000
Female	47,000	50,000	56,000	S	32,000	42,000	45,000	40,000	48,000	S	44,000
Education, except science/mathematics education teacher	48,000	52,000	54,000	35,000	44,000	47,000	51,000	47,000	52,000	70,000	47,000
Male	51,000	55,000	60,000	60,000	42,000	50,000	58,000	50,000	60,000	S	53,000
Female	45,000	45,000	46,000	S	50,000	45,000	46,000	45,000	47,000	60,000	42,000
Management/administration	75,000	80,000	80,000	50,000	63,000	47,000	54,000	41,000	65,000	76,000	57,000
Male	80,000	83,000	85,000	50,000	70,000	54,000	66,000	43,000	69,000	79,000	60,000
Female	65,000	69,000	70,000	40,000	63,000	43,000	46,000	38,000	60,000	70,000	50,000
Sales/marketing	75,000	80,000	80,000	S	S	45,000	45,000	S	S	S	S
Male	79,000	85,000	85,000	S	S	48,000	S	S	S	S	S
Female	62,000	70,000	73,000	S	S	S	S	S	S	S	S
Social services/related	46,000	45,000	47,000	56,000	42,000	48,000	45,000	50,000	50,000	61,000	48,000
Male	50,000	49,000	50,000	60,000	46,000	43,000	46,000	42,000	56,000	S	54,000
Female	45,000	43,000	45,000	42,000	41,000	50,000	42,000	52,000	45,000	S	44,000
Other non-S&E fields	70,000	78,000	80,000	90,000	55,000	46,000	46,000	46,000	69,000	80,000	62,000
Male	80,000	90,000	90,000	95,000	65,000	50,000	50,000	50,000	75,000	80,000	70,000
Female	56,000	60,000	63,000	50,000	49,000	43,000	45,000	42,000	56,000	89,000	51,000
Bachelor's degrees	54,000	60,000	62,000	40,000	45,000	38,000	42,000	36,000	51,000	62,000	47,000
Male	62,000	66,000	70,000	45,000	50,000	40,000	42,000	39,000	55,000	65,000	50,000
Female	45,000	47,000	50,000	33,000	43,000	37,000	42,000	35,000	45,000	57,000	42,000
S&E fields	55,000	60,000	63,000	40,000	40,000	35,000	37,000	35,000	51,000	62,000	46,000
Male	63,000	67,000	70,000	43,000	50,000	38,000	41,000	38,000	55,000	66,000	50,000
Female	40,000	43,000	48,000	31,000	35,000	33,000	34,000	32,000	43,000	54,000	39,000
Sciences	48,000	52,000	57,000	37,000	38,000	35,000	35,000	35,000	48,000	60,000	44,000
Male	56,000	60,000	64,000	40,000	45,000	38,000	39,000	38,000	50,000	60,000	48,000
Female	40,000	42,000	45,000	30,000	35,000	33,000	34,000	32,000	42,000	53,000	38,000
Biological/agricultural/environmental life sciences	43,000	45,000	48,000	35,000	40,000	36,000	34,000	37,000	48,000	60,000	43,000
Male	48,000	50,000	50,000	35,000	49,000	38,000	38,000	37,000	50,000	60,000	45,000
Female	40,000	40,000	42,000	25,000	34,000	34,000	32,000	37,000	42,000	52,000	37,000
Agricultural/food sciences	40,000	40,000	44,000	24,000	S	32,000	32,000	31,000	45,000	62,000	40,000

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	41,000	40,000	44,000	25,000	S	32,000	S	S	43,000	60,000	S
Female	36,000	36,000	43,000	S	S	34,000	36,000	S	49,000	S	S
Biological sciences	45,000	47,000	48,000	45,000	40,000	36,000	34,000	38,000	49,000	60,000	43,000
Male	50,000	52,000	53,000	50,000	50,000	38,000	39,000	38,000	50,000	67,000	46,000
Female	40,000	41,000	42,000	S	40,000	34,000	32,000	39,000	40,000	52,000	37,000
Environmental life sciences	44,000	48,000	52,000	S	34,000	32,000	38,000	S	44,000	41,000	44,000
Male	51,000	54,000	60,000	S	S	33,000	S	S	47,000	47,000	50,000
Female	36,000	40,000	43,000	S	S	S	S	S	41,000	S	44,000
Computer/mathematical sciences	64,000	70,000	70,000	35,000	52,000	38,000	45,000	35,000	55,000	60,000	50,000
Male	69,000	72,000	74,000	40,000	60,000	41,000	46,000	38,000	55,000	60,000	50,000
Female	53,000	60,000	60,000	24,000	48,000	35,000	45,000	34,000	52,000	62,000	47,000
Computer/information sciences	66,000	70,000	70,000	40,000	58,000	42,000	47,000	38,000	55,000	61,000	50,000
Male	70,000	73,000	74,000	40,000	62,000	45,000	47,000	40,000	55,000	63,000	50,000
Female	58,000	60,000	61,000	S	49,000	38,000	45,000	34,000	51,000	60,000	45,000
Mathematical sciences	58,000	65,000	68,000	30,000	45,000	36,000	45,000	35,000	60,000	60,000	47,000
Male	61,000	70,000	70,000	39,000	S	40,000	42,000	38,000	60,000	60,000	45,000
Female	45,000	55,000	60,000	S	48,000	34,000	S	33,000	57,000	73,000	52,000
Physical/related sciences	52,000	60,000	63,000	40,000	56,000	35,000	33,000	36,000	50,000	58,000	49,000
Male	60,000	65,000	68,000	40,000	100,000	40,000	25,000	41,000	55,000	60,000	51,000
Female	42,000	46,000	47,000	S	33,000	31,000	36,000	30,000	40,000	48,000	38,000
Chemistry, except biochemistry	52,000	57,000	59,000	S	60,000	34,000	25,000	41,000	60,000	70,000	52,000
Male	58,000	60,000	62,000	S	S	35,000	21,000	41,000	62,000	75,000	58,000
Female	46,000	48,000	50,000	S	S	34,000	30,000	40,000	48,000	S	S
Earth/atmospheric/ocean sciences	50,000	55,000	60,000	41,000	S	37,000	40,000	34,000	48,000	52,000	46,000
Male	52,000	57,000	63,000	41,000	S	37,000	S	39,000	50,000	52,000	49,000
Female	40,000	49,000	50,000	S	S	37,000	S	S	42,000	S	S
Physics/astronomy	69,000	75,000	75,000	S	S	23,000	24,000	23,000	55,000	55,000	S
Male	75,000	78,000	80,000	S	S	39,000	24,000	S	90,000	90,000	S
Female	38,000	60,000	60,000	S	S	15,000	25,000	S	S	S	S
Other physical sciences	45,000	40,000	45,000	S	S	S	S	S	50,000	S	S
Male	69,000	70,000	72,000	S	S	S	S	S	S	S	S
Female	33,000	31,000	27,000	S	S	S	S	S	S	S	S
Social/related sciences	45,000	48,000	52,000	40,000	35,000	33,000	34,000	32,000	45,000	55,000	42,000
Male	54,000	60,000	60,000	43,000	40,000	37,000	35,000	37,000	50,000	60,000	47,000

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	37,000	38,000	41,000	32,000	32,000	32,000	34,000	31,000	40,000	53,000	38,000
Economics	60,000	61,000	62,000	60,000	56,000	40,000	50,000	39,000	56,000	65,000	50,000
Male	65,000	68,000	69,000	65,000	70,000	48,000	S	S	60,000	73,000	50,000
Female	49,000	49,000	50,000	S	S	35,000	S	S	51,000	51,000	S
Political/related sciences	53,000	58,000	63,000	40,000	38,000	32,000	42,000	32,000	51,000	62,000	50,000
Male	60,000	65,000	70,000	50,000	48,000	38,000	S	35,000	51,000	70,000	50,000
Female	40,000	41,000	48,000	35,000	35,000	31,000	48,000	28,000	48,000	62,000	44,000
Psychology	39,000	42,000	45,000	32,000	33,000	33,000	31,000	33,000	40,000	50,000	38,000
Male	50,000	53,000	57,000	40,000	31,000	36,000	31,000	37,000	45,000	52,000	42,000
Female	35,000	36,000	38,000	31,000	33,000	33,000	30,000	33,000	38,000	44,000	36,000
Sociology/anthropology	40,000	39,000	40,000	37,000	32,000	30,000	30,000	31,000	45,000	54,000	43,000
Male	45,000	45,000	47,000	45,000	35,000	32,000	S	35,000	48,000	60,000	45,000
Female	35,000	33,000	35,000	25,000	31,000	30,000	34,000	30,000	43,000	54,000	38,000
Other social sciences	40,000	44,000	50,000	30,000	28,000	33,000	30,000	33,000	43,000	50,000	38,000
Male	45,000	48,000	50,000	30,000	35,000	34,000	S	39,000	46,000	50,000	43,000
Female	37,000	41,000	46,000	S	28,000	32,000	S	32,000	40,000	S	35,000
Engineering	71,000	74,000	75,000	50,000	65,000	42,000	45,000	39,000	67,000	73,000	60,000
Male	73,000	75,000	75,000	50,000	68,000	47,000	48,000	43,000	68,000	74,000	60,000
Female	61,000	64,000	65,000	58,000	35,000	36,000	37,000	36,000	60,000	65,000	50,000
Aerospace/related engineering	72,000	75,000	73,000	S	S	S	S	S	65,000	70,000	S
Male	73,000	75,000	77,000	S	S	S	S	S	65,000	70,000	S
Female	53,000	61,000	53,000	S	S	S	S	S	57,000	57,000	S
Chemical engineering	75,000	80,000	80,000	S	S	30,000	23,000	S	67,000	67,000	57,000
Male	80,000	85,000	85,000	S	S	22,000	21,000	S	67,000	67,000	S
Female	65,000	65,000	66,000	S	S	S	S	S	70,000	S	S
Civil/architectural engineering	67,000	70,000	70,000	52,000	S	52,000	S	S	65,000	76,000	62,000
Male	70,000	70,000	72,000	60,000	S	S	S	S	66,000	77,000	62,000
Female	55,000	53,000	54,000	S	S	S	S	S	60,000	S	60,000
Electrical/computer engineering	75,000	76,000	77,000	50,000	75,000	45,000	51,000	40,000	67,000	75,000	52,000
Male	75,000	77,000	78,000	50,000	75,000	50,000	51,000	S	70,000	75,000	55,000
Female	70,000	72,000	73,000	S	S	S	S	S	60,000	60,000	S
Industrial engineering	70,000	72,000	72,000	S	S	S	S	S	50,000	S	S
Male	72,000	73,000	72,000	S	S	S	S	S	S	S	S
Female	55,000	70,000	69,000	S	S	S	S	S	S	S	S

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Mechanical engineering	73,000	73,000	74,000	62,000	75,000	50,000	72,000	S	76,000	82,000	61,000
Male	75,000	75,000	75,000	62,000	90,000	60,000	72,000	S	76,000	83,000	61,000
Female	60,000	63,000	65,000	S	S	S	S	S	S	S	S
Other engineering	64,000	65,000	68,000	50,000	S	40,000	36,000	S	59,000	65,000	55,000
Male	65,000	69,000	70,000	50,000	S	42,000	40,000	S	58,000	59,000	56,000
Female	56,000	56,000	56,000	S	S	S	S	S	65,000	S	S
S&E-related fields	52,000	55,000	58,000	50,000	50,000	45,000	52,000	39,000	52,000	60,000	48,000
Male	60,000	65,000	67,000	50,000	58,000	44,000	52,000	42,000	56,000	60,000	50,000
Female	50,000	50,000	50,000	46,000	50,000	45,000	51,000	38,000	50,000	59,000	47,000
Health	50,000	52,000	54,000	52,000	50,000	48,000	52,000	40,000	50,000	59,000	46,000
Male	65,000	68,000	70,000	66,000	60,000	52,000	52,000	S	56,000	59,000	45,000
Female	50,000	50,000	50,000	46,000	50,000	48,000	52,000	39,000	50,000	59,000	46,000
Science/mathematics teacher education	40,000	40,000	46,000	S	S	38,000	S	38,000	53,000	S	S
Male	43,000	51,000	60,000	S	S	41,000	S	41,000	S	S	S
Female	37,000	32,000	31,000	S	S	37,000	S	37,000	S	S	S
Technology/technical fields	62,000	65,000	65,000	50,000	60,000	50,000	51,000	40,000	50,000	50,000	50,000
Male	62,000	65,000	65,000	50,000	60,000	40,000	S	S	50,000	50,000	50,000
Female	65,000	65,000	68,000	S	S	S	S	S	S	S	S
Other S&E-related fields	60,000	60,000	62,000	46,000	S	S	S	S	62,000	S	60,000
Male	62,000	64,000	66,000	46,000	S	S	S	S	65,000	S	65,000
Female	48,000	48,000	50,000	S	S	S	S	S	S	S	S
Non-S&E fields	51,000	60,000	62,000	46,000	47,000	39,000	40,000	38,000	52,000	64,000	46,000
Male	60,000	65,000	69,000	50,000	47,000	40,000	42,000	39,000	56,000	63,000	52,000
Female	44,000	50,000	52,000	26,000	45,000	38,000	40,000	38,000	46,000	65,000	41,000
Arts/humanities	53,000	60,000	68,000	50,000	44,000	39,000	40,000	38,000	55,000	65,000	50,000
Male	60,000	67,000	70,000	60,000	47,000	39,000	39,000	38,000	60,000	55,000	60,000
Female	44,000	52,000	57,000	S	S	39,000	S	38,000	44,000	S	S
Education, except science/mathematics education teacher	40,000	48,000	52,000	S	44,000	39,000	S	38,000	41,000	S	40,000
Male	43,000	54,000	60,000	S	S	40,000	S	40,000	S	S	S
Female	38,000	44,000	44,000	S	S	38,000	S	37,000	41,000	S	37,000
Management/administration	62,000	65,000	67,000	40,000	60,000	40,000	47,000	33,000	57,000	65,000	48,000
Male	67,000	69,000	70,000	35,000	59,000	42,000	47,000	33,000	58,000	63,000	55,000
Female	52,000	58,000	57,000	S	63,000	36,000	40,000	35,000	54,000	S	46,000
Sales/marketing	55,000	60,000	60,000	S	S	S	S	S	S	S	S

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	60,000	65,000	65,000	S	S	S	S	S	S	S	S
Female	50,000	52,000	56,000	S	S	S	S	S	S	S	S
Social services/related	43,000	45,000	47,000	S	S	S	S	S	35,000	S	S
Male	45,000	45,000	45,000	S	S	S	S	S	S	S	S
Female	42,000	48,000	S	S	S	S	S	S	S	S	S
Other non-S&E fields	48,000	50,000	50,000	S	44,000	38,000	36,000	40,000	52,000	64,000	50,000
Male	52,000	56,000	57,000	S	S	40,000	S	S	53,000	62,000	50,000
Female	42,000	43,000	46,000	S	38,000	38,000	S	S	50,000	S	50,000
Master's degrees	63,000	75,000	80,000	50,000	52,000	49,000	45,000	50,000	63,000	75,000	55,000
Male	74,000	81,000	85,000	50,000	58,000	51,000	47,000	52,000	70,000	80,000	60,000
Female	52,000	60,000	65,000	40,000	50,000	47,000	44,000	48,000	55,000	69,000	49,000
S&E fields	67,000	75,000	80,000	40,000	46,000	47,000	40,000	51,000	63,000	75,000	53,000
Male	75,000	80,000	84,000	45,000	60,000	50,000	45,000	55,000	70,000	80,000	58,000
Female	52,000	60,000	66,000	31,000	40,000	45,000	38,000	50,000	54,000	63,000	48,000
Sciences	60,000	70,000	75,000	40,000	44,000	47,000	40,000	51,000	58,000	73,000	50,000
Male	69,000	75,000	80,000	40,000	53,000	50,000	45,000	54,000	65,000	78,000	50,000
Female	50,000	55,000	65,000	30,000	40,000	45,000	38,000	50,000	52,000	62,000	48,000
Biological/agricultural/environmental life sciences	49,000	52,000	58,000	25,000	47,000	40,000	38,000	50,000	50,000	51,000	50,000
Male	50,000	55,000	63,000	S	65,000	44,000	44,000	52,000	50,000	50,000	50,000
Female	48,000	51,000	53,000	S	42,000	37,000	32,000	47,000	52,000	56,000	48,000
Agricultural/food sciences	50,000	56,000	65,000	S	S	40,000	42,000	S	49,000	S	S
Male	50,000	47,000	48,000	S	S	54,000	54,000	S	S	S	S
Female	49,000	65,000	65,000	S	S	35,000	S	S	S	S	S
Biological sciences	50,000	52,000	55,000	S	50,000	40,000	37,000	52,000	53,000	56,000	52,000
Male	52,000	63,000	65,000	S	S	44,000	44,000	52,000	53,000	51,000	53,000
Female	47,000	50,000	52,000	S	45,000	37,000	32,000	52,000	56,000	70,000	48,000
Environmental life sciences	45,000	45,000	56,000	S	S	40,000	S	S	45,000	45,000	S
Male	45,000	45,000	53,000	S	S	S	S	S	45,000	S	S
Female	47,000	45,000	S	S	S	S	S	S	S	S	S
Computer/mathematical sciences	78,000	82,000	84,000	20,000	81,000	50,000	50,000	50,000	75,000	89,000	60,000
Male	82,000	85,000	85,000	S	87,000	50,000	52,000	50,000	82,000	93,000	68,000
Female	68,000	76,000	78,000	S	80,000	50,000	45,000	50,000	55,000	55,000	53,000
Computer/information sciences	80,000	82,000	83,000	S	80,000	52,000	58,000	48,000	80,000	90,000	60,000
Male	84,000	85,000	85,000	S	87,000	52,000	63,000	S	85,000	93,000	68,000

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	72,000	75,000	77,000	S	78,000	50,000	S	S	55,000	74,000	S
Mathematical sciences	70,000	84,000	85,000	S	S	49,000	49,000	50,000	65,000	74,000	S
Male	75,000	90,000	90,000	S	S	49,000	49,000	50,000	70,000	S	S
Female	59,000	80,000	80,000	S	S	49,000	49,000	49,000	55,000	S	S
Physical/related sciences	64,000	70,000	71,000	S	59,000	48,000	28,000	53,000	65,000	65,000	60,000
Male	65,000	71,000	76,000	S	S	53,000	38,000	58,000	65,000	68,000	60,000
Female	55,000	65,000	66,000	S	S	34,000	22,000	48,000	55,000	55,000	S
Chemistry, except biochemistry	60,000	66,000	66,000	S	S	45,000	20,000	53,000	52,000	S	S
Male	60,000	66,000	70,000	S	S	53,000	S	S	S	S	S
Female	56,000	65,000	65,000	S	S	42,000	20,000	S	S	S	S
Earth/atmospheric/ocean sciences	64,000	68,000	70,000	S	S	59,000	40,000	60,000	65,000	70,000	63,000
Male	66,000	70,000	72,000	S	S	60,000	S	S	65,000	70,000	60,000
Female	43,000	51,000	70,000	S	S	S	S	S	S	S	S
Physics/astronomy	70,000	80,000	87,000	S	S	44,000	31,000	44,000	S	S	S
Male	71,000	80,000	80,000	S	S	44,000	31,000	S	S	S	S
Female	68,000	90,000	S	S	S	48,000	31,000	S	S	S	S
Other physical sciences	65,000	S	S	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Social/related sciences	50,000	52,000	70,000	45,000	40,000	49,000	39,000	52,000	57,000	75,000	47,000
Male	63,000	70,000	75,000	45,000	45,000	54,000	40,000	56,000	68,000	83,000	48,000
Female	46,000	45,000	52,000	40,000	38,000	47,000	39,000	50,000	50,000	69,000	45,000
Economics	73,000	77,000	78,000	S	S	45,000	52,000	S	70,000	60,000	S
Male	80,000	90,000	95,000	S	S	62,000	S	S	60,000	S	S
Female	60,000	73,000	66,000	S	S	S	S	S	S	S	S
Political/related sciences	70,000	69,000	80,000	S	60,000	44,000	S	52,000	75,000	89,000	67,000
Male	74,000	74,000	82,000	S	S	45,000	S	S	85,000	90,000	72,000
Female	55,000	65,000	65,000	S	62,000	44,000	S	S	50,000	S	S
Psychology	48,000	45,000	60,000	45,000	40,000	50,000	38,000	52,000	48,000	75,000	43,000
Male	54,000	61,000	75,000	45,000	45,000	55,000	34,000	58,000	47,000	S	42,000
Female	45,000	40,000	44,000	40,000	38,000	49,000	39,000	50,000	50,000	62,000	45,000
Sociology/anthropology	43,000	50,000	60,000	S	35,000	37,000	33,000	S	44,000	63,000	42,000
Male	49,000	50,000	60,000	S	S	42,000	S	S	44,000	S	S
Female	40,000	43,000	63,000	S	S	35,000	33,000	S	43,000	S	32,000

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Other social sciences	52,000	53,000	62,000	S	35,000	52,000	44,000	54,000	60,000	80,000	50,000
Male	60,000	60,000	67,000	S	S	60,000	S	60,000	54,000	S	S
Female	46,000	39,000	55,000	S	S	46,000	41,000	52,000	60,000	S	42,000
Engineering	80,000	84,000	85,000	51,000	80,000	46,000	46,000	45,000	75,000	84,000	68,000
Male	83,000	85,000	85,000	51,000	87,000	52,000	49,000	64,000	77,000	84,000	72,000
Female	70,000	74,000	75,000	S	S	40,000	39,000	S	64,000	86,000	64,000
Aerospace/related engineering	80,000	81,000	84,000	S	S	S	S	S	76,000	76,000	S
Male	80,000	85,000	88,000	S	S	S	S	S	74,000	74,000	S
Female	69,000	S	S	S	S	S	S	S	S	S	S
Chemical engineering	86,000	91,000	91,000	S	S	22,000	21,000	S	S	S	S
Male	92,000	97,000	97,000	S	S	S	S	S	S	S	S
Female	64,000	70,000	69,000	S	S	S	S	S	S	S	S
Civil/architectural engineering	73,000	75,000	75,000	S	S	60,000	S	S	68,000	77,000	68,000
Male	75,000	75,000	75,000	S	S	S	S	S	75,000	82,000	74,000
Female	62,000	68,000	68,000	S	S	S	S	S	58,000	S	57,000
Electrical/computer engineering	90,000	90,000	90,000	50,000	74,000	43,000	43,000	S	84,000	88,000	S
Male	90,000	91,000	92,000	50,000	S	46,000	46,000	S	84,000	88,000	S
Female	80,000	80,000	80,000	S	S	S	S	S	S	S	S
Industrial engineering	80,000	80,000	80,000	S	S	S	S	S	79,000	S	S
Male	80,000	83,000	83,000	S	S	S	S	S	S	S	S
Female	79,000	70,000	70,000	S	S	S	S	S	S	S	S
Mechanical engineering	80,000	79,000	80,000	S	S	60,000	60,000	S	86,000	100,000	S
Male	80,000	80,000	80,000	S	S	60,000	60,000	S	86,000	100,000	S
Female	74,000	75,000	78,000	S	S	S	S	S	S	S	S
Other engineering	75,000	80,000	80,000	50,000	S	43,000	52,000	S	71,000	85,000	60,000
Male	80,000	80,000	80,000	S	S	43,000	43,000	S	75,000	88,000	65,000
Female	60,000	66,000	67,000	S	S	S	S	S	58,000	S	S
S&E-related fields	57,000	62,000	63,000	62,000	62,000	50,000	59,000	49,000	62,000	70,000	55,000
Male	65,000	73,000	70,000	65,000	85,000	52,000	59,000	51,000	70,000	77,000	65,000
Female	54,000	58,000	57,000	60,000	58,000	50,000	58,000	47,000	56,000	69,000	49,000
Health	58,000	61,000	61,000	70,000	61,000	50,000	61,000	45,000	60,000	70,000	52,000
Male	73,000	80,000	75,000	S	80,000	60,000	65,000	46,000	70,000	72,000	64,000
Female	55,000	58,000	57,000	60,000	58,000	50,000	61,000	45,000	55,000	69,000	49,000
Science/mathematics teacher education	50,000	40,000	45,000	S	S	50,000	S	50,000	S	S	S

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	50,000	S	S	S	S	50,000	S	52,000	S	S	S
Female	50,000	S	S	S	S	50,000	S	50,000	S	S	S
Technology/technical fields	73,000	78,000	80,000	S	S	S	S	S	S	S	S
Male	73,000	77,000	78,000	S	S	S	S	S	S	S	S
Female	73,000	80,000	80,000	S	S	S	S	S	S	S	S
Other S&E-related fields	60,000	62,000	60,000	62,000	S	S	S	S	70,000	S	70,000
Male	65,000	65,000	60,000	65,000	S	S	S	S	70,000	S	70,000
Female	50,000	49,000	50,000	S	S	S	S	S	65,000	S	S
Non-S&E fields	63,000	78,000	85,000	50,000	50,000	48,000	45,000	50,000	63,000	80,000	56,000
Male	75,000	85,000	90,000	60,000	54,000	51,000	46,000	52,000	72,000	80,000	62,000
Female	50,000	60,000	70,000	40,000	46,000	46,000	42,000	48,000	53,000	70,000	50,000
Arts/humanities	57,000	62,000	60,000	S	S	50,000	45,000	53,000	50,000	S	S
Male	62,000	71,000	70,000	S	S	57,000	S	57,000	S	S	S
Female	50,000	50,000	50,000	S	S	48,000	53,000	47,000	S	S	S
Education, except science/mathematics education teacher	50,000	52,000	57,000	35,000	42,000	48,000	42,000	49,000	55,000	75,000	52,000
Male	53,000	55,000	60,000	S	S	51,000	45,000	52,000	65,000	S	60,000
Female	46,000	49,000	52,000	S	50,000	46,000	35,000	46,000	52,000	S	50,000
Management/administration	84,000	87,000	90,000	50,000	70,000	52,000	48,000	53,000	72,000	80,000	63,000
Male	90,000	92,000	94,000	50,000	78,000	60,000	65,000	53,000	75,000	85,000	63,000
Female	70,000	75,000	78,000	S	65,000	46,000	46,000	55,000	64,000	65,000	64,000
Sales/marketing	89,000	90,000	90,000	S	S	S	S	S	S	S	S
Male	90,000	90,000	91,000	S	S	S	S	S	S	S	S
Female	80,000	85,000	89,000	S	S	S	S	S	S	S	S
Social services/related	47,000	45,000	48,000	56,000	42,000	50,000	42,000	50,000	50,000	S	49,000
Male	50,000	50,000	57,000	70,000	47,000	47,000	S	48,000	54,000	S	51,000
Female	45,000	43,000	45,000	42,000	40,000	50,000	S	52,000	48,000	S	47,000
Other non-S&E fields	60,000	63,000	70,000	45,000	51,000	46,000	42,000	50,000	69,000	80,000	60,000
Male	68,000	74,000	75,000	S	63,000	46,000	46,000	S	80,000	80,000	78,000
Female	49,000	45,000	55,000	S	43,000	47,000	40,000	49,000	51,000	89,000	48,000
Doctorate degrees	77,000	95,000	100,000	80,000	68,000	65,000	65,000	61,000	80,000	89,000	67,000
Male	83,000	100,000	100,000	80,000	73,000	70,000	70,000	61,000	85,000	91,000	64,000
Female	63,000	77,000	83,000	75,000	62,000	57,000	57,000	55,000	72,000	76,000	72,000
S&E fields	80,000	97,000	100,000	84,000	76,000	65,000	65,000	56,000	82,000	89,000	65,000
Male	85,000	100,000	100,000	90,000	85,000	70,000	70,000	58,000	85,000	92,000	66,000

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	65,000	82,000	88,000	80,000	62,000	55,000	55,000	55,000	72,000	76,000	65,000
Sciences	75,000	95,000	100,000	80,000	74,000	62,000	63,000	56,000	80,000	88,000	65,000
Male	80,000	100,000	100,000	88,000	83,000	67,000	68,000	58,000	85,000	91,000	67,000
Female	63,000	80,000	87,000	80,000	62,000	55,000	55,000	55,000	71,000	75,000	65,000
Biological/agricultural/environmental life sciences	72,000	90,000	97,000	75,000	70,000	60,000	60,000	50,000	75,000	79,000	60,000
Male	75,000	97,000	100,000	75,000	78,000	65,000	65,000	51,000	80,000	83,000	60,000
Female	60,000	82,000	87,000	S	56,000	50,000	51,000	48,000	63,000	67,000	55,000
Agricultural/food sciences	72,000	82,000	84,000	S	71,000	64,000	65,000	S	73,000	80,000	S
Male	74,000	83,000	84,000	S	S	70,000	70,000	S	74,000	80,000	S
Female	56,000	80,000	84,000	S	S	43,000	43,000	S	62,000	S	S
Biological sciences	72,000	93,000	100,000	70,000	70,000	60,000	60,000	49,000	75,000	78,000	60,000
Male	75,000	100,000	103,000	60,000	78,000	64,000	65,000	55,000	83,000	85,000	62,000
Female	60,000	82,000	88,000	S	56,000	51,000	52,000	46,000	62,000	66,000	53,000
Environmental life sciences	72,000	89,000	89,000	S	S	61,000	63,000	S	73,000	76,000	S
Male	74,000	91,000	90,000	S	S	72,000	72,000	S	75,000	80,000	S
Female	58,000	S	S	S	S	46,000	46,000	S	67,000	S	S
Computer/mathematical sciences	80,000	110,000	114,000	67,000	98,000	66,000	65,000	68,000	86,000	86,000	S
Male	85,000	111,000	115,000	S	100,000	71,000	72,000	68,000	100,000	101,000	S
Female	60,000	106,000	108,000	S	S	50,000	50,000	S	72,000	S	S
Computer/information sciences	95,000	115,000	115,000	S	S	76,000	76,000	S	94,000	S	S
Male	100,000	116,000	116,000	S	S	80,000	80,000	S	S	S	S
Female	79,000	108,000	108,000	S	S	66,000	68,000	S	S	S	S
Mathematical sciences	74,000	100,000	105,000	S	93,000	62,000	62,000	68,000	85,000	86,000	S
Male	78,000	100,000	104,000	S	97,000	68,000	69,000	S	100,000	97,000	S
Female	52,000	100,000	110,000	S	S	45,000	44,000	S	S	S	S
Physical/related sciences	85,000	97,000	98,000	72,000	96,000	63,000	64,000	53,000	93,000	100,000	61,000
Male	86,000	100,000	100,000	75,000	99,000	65,000	65,000	54,000	96,000	101,000	61,000
Female	70,000	85,000	85,000	S	58,000	54,000	55,000	51,000	78,000	83,000	S
Chemistry, except biochemistry	85,000	95,000	96,000	70,000	91,000	60,000	62,000	53,000	83,000	93,000	61,000
Male	87,000	99,000	100,000	70,000	91,000	64,000	64,000	55,000	85,000	97,000	62,000
Female	74,000	85,000	85,000	S	S	51,000	50,000	53,000	70,000	74,000	S
Earth/atmospheric/ocean sciences	75,000	88,000	90,000	S	60,000	63,000	64,000	S	85,000	96,000	55,000
Male	79,000	88,000	90,000	S	S	65,000	66,000	S	86,000	100,000	54,000
Female	61,000	90,000	90,000	S	S	58,000	58,000	S	71,000	S	S

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Physics/astronomy	89,000	100,000	101,000	S	110,000	65,000	68,000	51,000	105,000	105,000	98,000
Male	90,000	102,000	103,000	S	110,000	67,000	70,000	51,000	105,000	107,000	S
Female	76,000	89,000	89,000	S	S	62,000	63,000	S	98,000	94,000	S
Other physical sciences	70,000	110,000	113,000	S	S	37,000	37,000	S	S	S	S
Male	71,000	110,000	S	S	S	S	S	S	S	S	S
Female	67,000	S	S	S	S	S	S	S	S	S	S
Social/related sciences	71,000	88,000	100,000	90,000	68,000	65,000	65,000	60,000	77,000	89,000	68,000
Male	78,000	100,000	104,000	100,000	75,000	70,000	70,000	62,000	80,000	90,000	70,000
Female	63,000	75,000	85,000	80,000	62,000	60,000	60,000	58,000	74,000	87,000	65,000
Economics	95,000	132,000	144,000	S	101,000	80,000	80,000	S	96,000	100,000	S
Male	96,000	140,000	150,000	S	S	84,000	85,000	S	95,000	100,000	S
Female	84,000	105,000	120,000	S	S	71,000	72,000	S	100,000	104,000	S
Political/related sciences	63,000	82,000	90,000	52,000	63,000	60,000	60,000	48,000	85,000	100,000	73,000
Male	65,000	75,000	84,000	S	S	60,000	61,000	S	94,000	104,000	73,000
Female	60,000	100,000	100,000	S	S	59,000	58,000	S	S	S	S
Psychology	71,000	83,000	90,000	95,000	68,000	63,000	63,000	64,000	73,000	87,000	68,000
Male	80,000	92,000	98,000	105,000	75,000	70,000	70,000	70,000	75,000	88,000	70,000
Female	64,000	74,000	80,000	80,000	61,000	60,000	60,000	60,000	70,000	86,000	65,000
Sociology/anthropology	62,000	67,000	85,000	53,000	62,000	60,000	60,000	52,000	73,000	84,000	60,000
Male	67,000	80,000	92,000	S	55,000	65,000	66,000	S	73,000	85,000	64,000
Female	60,000	62,000	73,000	S	62,000	56,000	55,000	S	72,000	78,000	S
Other social sciences	68,000	90,000	100,000	S	79,000	62,000	63,000	60,000	75,000	80,000	65,000
Male	70,000	100,000	109,000	S	S	64,000	65,000	60,000	75,000	S	S
Female	63,000	80,000	83,000	S	S	60,000	61,000	57,000	73,000	S	S
Engineering	94,000	100,000	100,000	95,000	101,000	80,000	80,000	48,000	89,000	95,000	66,000
Male	95,000	100,000	100,000	100,000	101,000	82,000	83,000	50,000	90,000	95,000	66,000
Female	80,000	90,000	92,000	S	S	65,000	65,000	S	79,000	80,000	S
Aerospace/related engineering	85,000	83,000	81,000	S	S	77,000	77,000	S	96,000	92,000	S
Male	86,000	83,000	81,000	S	S	85,000	78,000	S	100,000	96,000	S
Female	S	S	S	S	S	S	S	S	S	S	S
Chemical engineering	95,000	100,000	100,000	S	S	80,000	81,000	S	54,000	95,000	S
Male	98,000	100,000	100,000	S	S	86,000	86,000	S	54,000	S	S
Female	80,000	87,000	87,000	S	S	S	S	S	S	S	S
Civil/architectural engineering	81,000	89,000	85,000	S	S	76,000	76,000	S	81,000	91,000	S

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	82,000	90,000	85,000	S	S	78,000	78,000	S	81,000	92,000	S
Female	62,000	S	S	S	S	S	S	S	S	S	S
Electrical/computer engineering	100,000	107,000	110,000	70,000	105,000	83,000	84,000	S	95,000	95,000	S
Male	100,000	110,000	110,000	70,000	105,000	84,000	84,000	S	97,000	95,000	S
Female	95,000	100,000	100,000	S	S	78,000	78,000	S	S	S	S
Industrial engineering	84,000	94,000	94,000	S	S	76,000	79,000	S	S	S	S
Male	88,000	94,000	94,000	S	S	76,000	80,000	S	S	S	S
Female	80,000	S	S	S	S	75,000	75,000	S	S	S	S
Mechanical engineering	90,000	94,000	94,000	S	S	82,000	82,000	S	95,000	95,000	S
Male	91,000	95,000	95,000	S	S	82,000	84,000	S	95,000	95,000	S
Female	71,000	S	S	S	S	S	S	S	S	S	S
Other engineering	90,000	96,000	97,000	90,000	84,000	81,000	82,000	S	89,000	95,000	70,000
Male	92,000	99,000	100,000	105,000	84,000	84,000	85,000	S	89,000	95,000	70,000
Female	80,000	86,000	86,000	S	S	65,000	65,000	S	S	S	S
S&E-related fields	72,000	90,000	98,000	70,000	65,000	65,000	65,000	55,000	72,000	86,000	72,000
Male	90,000	100,000	120,000	S	95,000	66,000	67,000	S	82,000	96,000	S
Female	62,000	50,000	48,000	S	55,000	60,000	61,000	55,000	72,000	80,000	72,000
Health	72,000	80,000	85,000	70,000	65,000	68,000	69,000	56,000	72,000	85,000	72,000
Male	85,000	100,000	120,000	S	95,000	73,000	75,000	S	82,000	93,000	S
Female	64,000	50,000	48,000	S	55,000	64,000	63,000	S	72,000	80,000	72,000
Science/mathematics teacher education	61,000	S	S	S	S	61,000	63,000	S	S	S	S
Male	S	S	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Technology/technical fields	100,000	S	S	S	S	S	S	S	S	S	S
Male	100,000	S	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Other S&E-related fields	S	S	S	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Non-S&E fields	65,000	68,000	90,000	S	60,000	64,000	65,000	61,000	71,000	S	S
Male	71,000	72,000	100,000	S	63,000	71,000	72,000	70,000	S	S	S
Female	60,000	60,000	S	S	S	60,000	60,000	55,000	S	S	S
Arts/humanities	62,000	S	S	S	S	63,000	63,000	S	S	S	S
Male	63,000	S	S	S	S	63,000	63,000	S	S	S	S

TABLE 21. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	50,000	S	S	S	S	50,000	50,000	S	S	S	S
Education, except science/mathematics education teacher	65,000	67,000	S	S	S	65,000	67,000	63,000	S	S	S
Male	80,000	S	S	S	S	80,000	80,000	88,000	S	S	S
Female	60,000	S	S	S	S	60,000	60,000	55,000	S	S	S
Management/administration	85,000	S	S	S	S	88,000	90,000	S	S	S	S
Male	80,000	S	S	S	S	85,000	85,000	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Sales/marketing	S	S	S	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Social services/related	55,000	63,000	S	S	62,000	50,000	53,000	S	S	S	S
Male	50,000	63,000	S	S	S	45,000	52,000	S	S	S	S
Female	60,000	S	S	S	S	S	S	S	S	S	S
Other non-S&E fields	71,000	97,000	S	S	S	60,000	60,000	S	S	S	S
Male	90,000	S	S	S	S	65,000	71,000	S	S	S	S
Female	59,000	S	S	S	S	54,000	S	S	S	S	S

S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Salaries are for principal job and rounded to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
All degree levels and fields[a]	60,000	65,000	46,000	65,000	65,000	56,000
Business/industry	66,000	70,000	52,000	70,000	70,000	60,000
4-year college/university	50,000	50,000	56,000	52,000	47,000	49,000
Other educational institution	43,000	42,000	42,000	45,000	43,000	44,000
Government	57,000	60,000	50,000	60,000	55,000	51,000
S&E fields	60,000	65,000	43,000	60,000	66,000	48,000
Business/industry	65,000	70,000	45,000	65,000	70,000	50,000
4-year college/university	47,000	48,000	57,000	48,000	48,000	42,000
Other educational institution	40,000	38,000	38,000	40,000	38,000	40,000
Government	55,000	60,000	45,000	58,000	53,000	46,000
Sciences	52,000	60,000	42,000	54,000	62,000	44,000
Business/industry	58,000	65,000	40,000	58,000	68,000	45,000
4-year college/university	46,000	46,000	55,000	46,000	47,000	41,000
Other educational institution	40,000	38,000	38,000	40,000	38,000	40,000
Government	50,000	56,000	45,000	53,000	51,000	44,000
Biological/agricultural/environmental life sciences	46,000	50,000	43,000	49,000	46,000	43,000
Business/industry	48,000	55,000	45,000	49,000	48,000	42,000
4-year college/university	42,000	40,000	50,000	46,000	44,000	46,000
Other educational institution	39,000	38,000	40,000	41,000	42,000	36,000
Government	50,000	50,000	50,000	52,000	43,000	47,000
Agricultural/food sciences	43,000	50,000	38,000	45,000	40,000	35,000
Business/industry	43,000	51,000	30,000	44,000	41,000	35,000
4-year college/university	43,000	40,000	60,000	43,000	S	40,000
Other educational institution	34,000	S	34,000	S	S	S
Government	49,000	58,000	S	50,000	31,000	44,000
Biological sciences	48,000	50,000	44,000	50,000	48,000	46,000
Business/industry	50,000	56,000	47,000	51,000	48,000	45,000
4-year college/university	42,000	40,000	50,000	46,000	44,000	46,000
Other educational institution	40,000	39,000	40,000	41,000	47,000	39,000
Government	50,000	50,000	50,000	52,000	43,000	50,000
Environmental life sciences	45,000	45,000	37,000	51,000	42,000	40,000
Business/industry	48,000	45,000	S	50,000	49,000	42,000
4-year college/university	40,000	38,000	40,000	51,000	S	60,000
Other educational institution	35,000	S	35,000	S	S	S
Government	45,000	51,000	S	53,000	42,000	36,000
Computer/mathematical sciences	68,000	70,000	42,000	70,000	71,000	55,000
Business/industry	73,000	75,000	51,000	75,000	75,000	60,000
4-year college/university	53,000	60,000	56,000	49,000	52,000	50,000
Other educational institution	39,000	38,000	38,000	36,000	42,000	36,000
Government	60,000	63,000	40,000	61,000	62,000	45,000
Computer/information sciences	70,000	71,000	48,000	74,000	70,000	55,000
Business/industry	74,000	74,000	51,000	76,000	75,000	58,000
4-year college/university	53,000	62,000	65,000	50,000	52,000	43,000
Other educational institution	40,000	38,000	40,000	40,000	42,000	S
Government	59,000	66,000	S	62,000	62,000	45,000
Mathematical sciences	60,000	65,000	42,000	62,000	72,000	55,000
Business/industry	70,000	76,000	48,000	70,000	78,000	60,000
4-year college/university	51,000	53,000	54,000	49,000	50,000	50,000
Other educational institution	38,000	39,000	38,000	35,000	42,000	35,000
Government	60,000	60,000	S	60,000	65,000	43,000
Physical/related sciences	62,000	66,000	48,000	69,000	65,000	52,000
Business/industry	70,000	75,000	52,000	72,000	70,000	56,000

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	50,000	49,000	60,000	62,000	55,000	45,000
Other educational institution	42,000	41,000	42,000	45,000	15,000	35,000
Government	58,000	65,000	23,000	60,000	54,000	48,000
Chemistry, except biochemistry	60,000	64,000	49,000	68,000	60,000	56,000
Business/industry	66,000	70,000	40,000	70,000	63,000	59,000
4-year college/university	44,000	38,000	52,000	50,000	32,000	47,000
Other educational institution	45,000	41,000	48,000	42,000	S	S
Government	62,000	66,000	S	67,000	48,000	54,000
Earth/atmospheric/ocean sciences	58,000	60,000	52,000	62,000	53,000	49,000
Business/industry	63,000	65,000	S	65,000	60,000	50,000
4-year college/university	54,000	55,000	62,000	55,000	43,000	S
Other educational institution	45,000	60,000	42,000	51,000	S	S
Government	54,000	57,000	S	58,000	50,000	46,000
Physics/astronomy	75,000	80,000	48,000	90,000	75,000	60,000
Business/industry	84,000	86,000	S	95,000	80,000	69,000
4-year college/university	58,000	57,000	63,000	72,000	52,000	52,000
Other educational institution	36,000	S	31,000	46,000	S	S
Government	90,000	100,000	S	90,000	92,000	42,000
Other physical sciences	50,000	50,000	30,000	52,000	69,000	35,000
Business/industry	50,000	69,000	S	50,000	S	37,000
4-year college/university	46,000	40,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	51,000	50,000	S	51,000	S	S
Social/related sciences	48,000	52,000	40,000	50,000	48,000	42,000
Business/industry	50,000	55,000	35,000	51,000	55,000	42,000
4-year college/university	46,000	52,000	54,000	44,000	39,000	37,000
Other educational institution	39,000	38,000	37,000	40,000	32,000	41,000
Government	49,000	55,000	44,000	51,000	44,000	43,000
Economics	63,000	64,000	50,000	69,000	65,000	60,000
Business/industry	65,000	60,000	52,000	70,000	65,000	60,000
4-year college/university	67,000	72,000	70,000	60,000	S	38,000
Other educational institution	40,000	S	40,000	48,000	S	S
Government	60,000	70,000	S	62,000	63,000	50,000
Political/related sciences	55,000	60,000	40,000	60,000	48,000	50,000
Business/industry	60,000	60,000	58,000	62,000	53,000	52,000
4-year college/university	48,000	53,000	53,000	44,000	S	35,000
Other educational institution	32,000	38,000	32,000	35,000	S	S
Government	57,000	67,000	S	60,000	40,000	50,000
Psychology	43,000	49,000	40,000	45,000	48,000	40,000
Business/industry	44,000	54,000	35,000	45,000	57,000	40,000
4-year college/university	45,000	48,000	58,000	44,000	33,000	38,000
Other educational institution	41,000	40,000	38,000	43,000	40,000	46,000
Government	42,000	50,000	38,000	45,000	45,000	40,000
Sociology/anthropology	40,000	45,000	35,000	42,000	42,000	35,000
Business/industry	40,000	45,000	31,000	40,000	45,000	32,000
4-year college/university	40,000	48,000	45,000	40,000	33,000	34,000
Other educational institution	32,000	35,000	34,000	27,000	S	24,000
Government	45,000	53,000	45,000	50,000	45,000	42,000
Other social sciences	44,000	45,000	42,000	48,000	40,000	35,000
Business/industry	45,000	46,000	48,000	48,000	50,000	35,000
4-year college/university	45,000	51,000	52,000	45,000	57,000	33,000
Other educational institution	37,000	34,000	38,000	44,000	S	32,000

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	47,000	43,000	S	51,000	37,000	42,000
Engineering	75,000	75,000	60,000	80,000	75,000	69,000
Business/industry	77,000	76,000	65,000	80,000	76,000	70,000
4-year college/university	60,000	62,000	70,000	70,000	50,000	45,000
Other educational institution	40,000	40,000	37,000	49,000	S	S
Government	70,000	70,000	70,000	72,000	60,000	68,000
Aerospace/related engineering	75,000	74,000	53,000	84,000	73,000	65,000
Business/industry	78,000	72,000	S	86,000	79,000	65,000
4-year college/university	45,000	63,000	70,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	70,000	75,000	S	70,000	65,000	78,000
Chemical engineering	80,000	75,000	40,000	85,000	75,000	76,000
Business/industry	84,000	80,000	S	87,000	76,000	80,000
4-year college/university	34,000	32,000	70,000	68,000	S	S
Other educational institution	S	S	S	S	S	S
Government	66,000	67,000	S	67,000	S	70,000
Civil/architectural engineering	70,000	63,000	57,000	73,000	60,000	68,000
Business/industry	70,000	65,000	S	75,000	58,000	67,000
4-year college/university	65,000	62,000	72,000	65,000	S	S
Other educational institution	37,000	S	S	S	S	S
Government	67,000	63,000	S	70,000	60,000	69,000
Electrical/computer engineering	80,000	80,000	59,000	85,000	80,000	68,000
Business/industry	80,000	82,000	72,000	86,000	80,000	70,000
4-year college/university	62,000	65,000	65,000	70,000	62,000	45,000
Other educational institution	40,000	S	40,000	S	S	S
Government	72,000	76,000	S	75,000	67,000	60,000
Industrial engineering	73,000	69,000	54,000	75,000	75,000	65,000
Business/industry	75,000	69,000	S	80,000	80,000	65,000
4-year college/university	66,000	65,000	72,000	100,000	S	S
Other educational institution	S	S	S	S	S	S
Government	60,000	69,000	S	54,000	S	S
Mechanical engineering	75,000	74,000	67,000	80,000	72,000	70,000
Business/industry	75,000	74,000	65,000	79,000	72,000	75,000
4-year college/university	72,000	76,000	70,000	82,000	79,000	S
Other educational institution	40,000	S	S	S	S	S
Government	79,000	80,000	S	82,000	62,000	61,000
Other engineering	70,000	74,000	61,000	70,000	70,000	65,000
Business/industry	72,000	75,000	30,000	72,000	70,000	67,000
4-year college/university	60,000	60,000	77,000	70,000	49,000	55,000
Other educational institution	49,000	S	36,000	S	S	S
Government	65,000	65,000	S	65,000	57,000	69,000
S&E-related fields	60,000	60,000	50,000	65,000	59,000	63,000
Business/industry	66,000	65,000	56,000	70,000	62,000	70,000
4-year college/university	56,000	55,000	60,000	62,000	50,000	55,000
Other educational institution	44,000	45,000	43,000	47,000	50,000	41,000
Government	58,000	59,000	56,000	60,000	55,000	57,000
Health	62,000	60,000	55,000	68,000	54,000	65,000
Business/industry	70,000	67,000	57,000	70,000	59,000	72,000
4-year college/university	58,000	55,000	60,000	62,000	50,000	56,000
Other educational institution	42,000	39,000	42,000	48,000	S	41,000
Government	58,000	58,000	55,000	61,000	50,000	58,000
Science/mathematics teacher education	45,000	50,000	44,000	45,000	52,000	39,000

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Business/industry	40,000	60,000	S	42,000	51,000	35,000
4-year college/university	46,000	61,000	46,000	S	S	S
Other educational institution	45,000	46,000	44,000	45,000	53,000	36,000
Government	53,000	S	S	54,000	S	S
Technology/technical fields	65,000	67,000	52,000	65,000	66,000	47,000
Business/industry	65,000	70,000	67,000	65,000	68,000	50,000
4-year college/university	51,000	S	S	S	S	S
Other educational institution	48,000	S	48,000	S	S	S
Government	52,000	61,000	S	60,000	65,000	42,000
Other S&E-related fields	60,000	60,000	52,000	65,000	55,000	55,000
Business/industry	62,000	60,000	S	65,000	48,000	58,000
4-year college/university	52,000	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	65,000	68,000	S	66,000	S	60,000
Non-S&E fields	62,000	64,000	45,000	70,000	63,000	60,000
Business/industry	72,000	71,000	48,000	80,000	69,000	65,000
4-year college/university	48,000	47,000	50,000	50,000	47,000	46,000
Other educational institution	46,000	45,000	44,000	50,000	45,000	50,000
Government	61,000	60,000	52,000	65,000	60,000	58,000
Arts/humanities	55,000	60,000	45,000	57,000	58,000	45,000
Business/industry	60,000	69,000	36,000	60,000	62,000	45,000
4-year college/university	45,000	45,000	45,000	44,000	45,000	44,000
Other educational institution	42,000	36,000	42,000	50,000	S	S
Government	53,000	57,000	S	50,000	59,000	52,000
Education, except science/mathematics teacher education	48,000	50,000	45,000	51,000	51,000	47,000
Business/industry	52,000	55,000	55,000	55,000	53,000	40,000
4-year college/university	51,000	49,000	48,000	60,000	S	48,000
Other educational institution	47,000	49,000	44,000	50,000	49,000	50,000
Government	52,000	50,000	46,000	52,000	54,000	50,000
Management/administration	75,000	75,000	52,000	80,000	70,000	65,000
Business/industry	80,000	80,000	59,000	84,000	74,000	70,000
4-year college/university	54,000	60,000	58,000	61,000	50,000	46,000
Other educational institution	41,000	40,000	40,000	55,000	40,000	S
Government	65,000	65,000	60,000	70,000	65,000	55,000
Sales/marketing	75,000	64,000	50,000	83,000	60,000	63,000
Business/industry	80,000	70,000	S	85,000	62,000	67,000
4-year college/university	45,000	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social services/related	46,000	48,000	44,000	48,000	51,000	45,000
Business/industry	45,000	48,000	40,000	47,000	49,000	43,000
4-year college/university	45,000	50,000	49,000	42,000	S	47,000
Other educational institution	50,000	S	42,000	40,000	S	52,000
Government	50,000	S	S	56,000	S	49,000
Other non-S&E fields	70,000	61,000	47,000	79,000	57,000	80,000
Business/industry	78,000	68,000	45,000	80,000	60,000	88,000
4-year college/university	46,000	46,000	53,000	46,000	46,000	51,000
Other educational institution	46,000	S	44,000	47,000	S	49,000
Government	69,000	57,000	53,000	75,000	55,000	70,000
Bachelor's degrees, all fields	54,000	60,000	40,000	58,000	60,000	48,000
Business/industry	60,000	65,000	48,000	60,000	65,000	50,000
4-year college/university	42,000	35,000	45,000	44,000	46,000	45,000

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other educational institution	36,000	38,000	36,000	36,000	38,000	35,000
Government	51,000	57,000	45,000	54,000	51,000	46,000
S&E fields	55,000	60,000	36,000	58,000	62,000	45,000
Business/industry	60,000	65,000	42,000	60,000	67,000	49,000
4-year college/university	37,000	30,000	35,000	40,000	46,000	38,000
Other educational institution	35,000	36,000	34,000	35,000	33,000	31,000
Government	51,000	56,000	43,000	54,000	50,000	44,000
Sciences	48,000	52,000	35,000	50,000	59,000	42,000
Business/industry	52,000	60,000	39,000	54,000	63,000	43,000
4-year college/university	35,000	30,000	34,000	40,000	45,000	38,000
Other educational institution	35,000	35,000	34,000	35,000	33,000	31,000
Government	48,000	52,000	43,000	50,000	50,000	42,000
Biological/agricultural/environmental life sciences	43,000	44,000	39,000	45,000	45,000	42,000
Business/industry	45,000	50,000	45,000	46,000	47,000	41,000
4-year college/university	34,000	30,000	34,000	39,000	37,000	40,000
Other educational institution	37,000	37,000	37,000	37,000	S	36,000
Government	48,000	48,000	50,000	50,000	43,000	45,000
Agricultural/food sciences	40,000	48,000	31,000	42,000	41,000	35,000
Business/industry	40,000	50,000	S	40,000	44,000	35,000
4-year college/university	32,000	26,000	S	S	S	S
Other educational institution	31,000	S	S	S	S	S
Government	45,000	60,000	S	49,000	S	43,000
Biological sciences	45,000	44,000	40,000	46,000	47,000	43,000
Business/industry	47,000	50,000	47,000	48,000	48,000	42,000
4-year college/university	34,000	30,000	38,000	39,000	37,000	40,000
Other educational institution	38,000	38,000	38,000	38,000	S	S
Government	49,000	48,000	S	50,000	43,000	47,000
Environmental life sciences	44,000	43,000	30,000	51,000	40,000	42,000
Business/industry	48,000	44,000	S	50,000	40,000	48,000
4-year college/university	38,000	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	44,000	43,000	S	53,000	S	36,000
Computer/mathematical sciences	64,000	65,000	36,000	66,000	68,000	50,000
Business/industry	70,000	70,000	48,000	70,000	70,000	58,000
4-year college/university	45,000	53,000	S	45,000	49,000	S
Other educational institution	35,000	35,000	35,000	35,000	41,000	35,000
Government	55,000	60,000	S	59,000	60,000	45,000
Computer/information sciences	66,000	68,000	39,000	70,000	68,000	50,000
Business/industry	70,000	70,000	50,000	73,000	70,000	58,000
4-year college/university	47,000	55,000	S	45,000	52,000	S
Other educational institution	38,000	35,000	34,000	35,000	43,000	S
Government	55,000	63,000	S	55,000	57,000	45,000
Mathematical sciences	58,000	60,000	35,000	60,000	70,000	54,000
Business/industry	65,000	70,000	48,000	63,000	74,000	55,000
4-year college/university	45,000	42,000	S	45,000	41,000	S
Other educational institution	35,000	36,000	35,000	35,000	38,000	S
Government	60,000	60,000	S	60,000	65,000	42,000
Physical/related sciences	52,000	54,000	39,000	60,000	55,000	47,000
Business/industry	60,000	64,000	44,000	68,000	68,000	50,000
4-year college/university	33,000	22,000	25,000	46,000	43,000	44,000
Other educational institution	36,000	39,000	35,000	42,000	S	S
Government	50,000	55,000	S	52,000	50,000	45,000

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Chemistry, except biochemistry	52,000	50,000	40,000	60,000	52,000	52,000
Business/industry	57,000	57,000	S	65,000	60,000	52,000
4-year college/university	25,000	21,000	44,000	S	S	S
Other educational institution	41,000	S	42,000	42,000	S	S
Government	60,000	66,000	S	67,000	S	54,000
Earth/atmospheric/ocean sciences	50,000	52,000	42,000	54,000	38,000	45,000
Business/industry	55,000	54,000	S	63,000	36,000	50,000
4-year college/university	40,000	43,000	S	S	S	S
Other educational institution	34,000	S	32,000	42,000	S	S
Government	48,000	50,000	S	49,000	38,000	42,000
Physics/astronomy	69,000	75,000	20,000	75,000	73,000	55,000
Business/industry	75,000	80,000	S	80,000	75,000	69,000
4-year college/university	24,000	21,000	S	S	25,000	50,000
Other educational institution	23,000	S	15,000	S	S	S
Government	55,000	S	S	48,000	S	S
Other physical sciences	45,000	44,000	S	50,000	69,000	35,000
Business/industry	40,000	68,000	S	43,000	S	37,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	50,000	S	S	S	S	S
Social/related sciences	45,000	48,000	33,000	48,000	47,000	40,000
Business/industry	48,000	50,000	32,000	50,000	52,000	40,000
4-year college/university	34,000	30,000	29,000	38,000	36,000	33,000
Other educational institution	32,000	35,000	32,000	34,000	29,000	30,000
Government	45,000	52,000	38,000	49,000	43,000	42,000
Economics	60,000	60,000	42,000	65,000	60,000	55,000
Business/industry	61,000	60,000	S	65,000	60,000	60,000
4-year college/university	50,000	S	S	S	S	S
Other educational institution	39,000	S	36,000	S	S	S
Government	56,000	55,000	S	60,000	63,000	45,000
Political/related sciences	53,000	60,000	32,000	56,000	48,000	50,000
Business/industry	58,000	60,000	45,000	61,000	52,000	50,000
4-year college/university	42,000	S	S	42,000	S	S
Other educational institution	32,000	S	31,000	31,000	S	S
Government	51,000	64,000	S	52,000	40,000	48,000
Psychology	39,000	42,000	32,000	42,000	50,000	35,000
Business/industry	42,000	49,000	28,000	43,000	57,000	35,000
4-year college/university	31,000	30,000	S	38,000	S	30,000
Other educational institution	33,000	38,000	32,000	36,000	S	27,000
Government	40,000	45,000	S	42,000	42,000	37,000
Sociology/anthropology	40,000	40,000	32,000	41,000	42,000	35,000
Business/industry	39,000	44,000	31,000	40,000	44,000	32,000
4-year college/university	30,000	S	S	30,000	S	34,000
Other educational institution	31,000	35,000	33,000	27,000	S	23,000
Government	45,000	48,000	45,000	50,000	45,000	42,000
Other social sciences	40,000	40,000	34,000	47,000	38,000	35,000
Business/industry	44,000	45,000	48,000	48,000	45,000	34,000
4-year college/university	30,000	S	S	S	S	S
Other educational institution	33,000	29,000	34,000	35,000	S	S
Government	43,000	38,000	S	50,000	37,000	41,000
Engineering	71,000	70,000	50,000	75,000	70,000	65,000
Business/industry	74,000	72,000	60,000	78,000	73,000	67,000

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	45,000	39,000	45,000	60,000	49,000	42,000
Other educational institution	39,000	40,000	36,000	49,000	S	S
Government	67,000	66,000	S	70,000	60,000	61,000
Aerospace/related engineering	72,000	68,000	S	78,000	65,000	68,000
Business/industry	75,000	68,000	S	85,000	73,000	65,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	65,000	75,000	S	65,000	S	78,000
Chemical engineering	75,000	68,000	40,000	82,000	65,000	76,000
Business/industry	80,000	72,000	S	85,000	65,000	80,000
4-year college/university	23,000	23,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	67,000	67,000	S	67,000	S	74,000
Civil/architectural engineering	67,000	60,000	50,000	72,000	57,000	65,000
Business/industry	70,000	60,000	S	75,000	55,000	65,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	65,000	61,000	S	67,000	60,000	67,000
Electrical/computer engineering	75,000	76,000	50,000	80,000	75,000	64,000
Business/industry	76,000	78,000	72,000	83,000	76,000	66,000
4-year college/university	51,000	55,000	S	S	S	S
Other educational institution	40,000	S	34,000	S	S	S
Government	67,000	74,000	S	70,000	60,000	57,000
Industrial engineering	70,000	65,000	S	74,000	77,000	60,000
Business/industry	72,000	65,000	S	75,000	81,000	62,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	50,000	S	S	50,000	S	S
Mechanical engineering	73,000	72,000	61,000	78,000	65,000	70,000
Business/industry	73,000	72,000	65,000	78,000	67,000	75,000
4-year college/university	72,000	72,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	76,000	73,000	S	80,000	62,000	61,000
Other engineering	64,000	70,000	30,000	64,000	67,000	60,000
Business/industry	65,000	70,000	S	65,000	70,000	60,000
4-year college/university	36,000	21,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	59,000	50,000	S	63,000	S	59,000
S&E-related fields	52,000	54,000	45,000	57,000	55,000	51,000
Business/industry	55,000	57,000	50,000	60,000	60,000	52,000
4-year college/university	52,000	50,000	53,000	60,000	46,000	52,000
Other educational institution	39,000	39,000	38,000	40,000	50,000	39,000
Government	52,000	56,000	46,000	56,000	50,000	52,000
Health	50,000	50,000	48,000	55,000	50,000	51,000
Business/industry	52,000	50,000	50,000	55,000	52,000	52,000
4-year college/university	52,000	50,000	55,000	60,000	40,000	52,000
Other educational institution	40,000	S	39,000	38,000	S	40,000
Government	50,000	52,000	45,000	56,000	48,000	52,000
Science/mathematics teacher education	40,000	49,000	39,000	41,000	51,000	35,000
Business/industry	40,000	70,000	S	42,000	51,000	40,000
4-year college/university	S	S	S	S	S	S
Other educational institution	38,000	39,000	37,000	40,000	S	S

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	53,000	S	S	S	S	S
Technology/technical fields	62,000	65,000	52,000	65,000	65,000	48,000
Business/industry	65,000	65,000	60,000	65,000	65,000	50,000
4-year college/university	51,000	S	S	S	S	S
Other educational institution	40,000	S	S	S	S	S
Government	50,000	60,000	S	52,000	60,000	S
Other S&E-related fields	60,000	58,000	S	64,000	50,000	55,000
Business/industry	60,000	59,000	S	65,000	40,000	55,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	62,000	S	S	65,000	S	S
Non-S&E fields	51,000	60,000	39,000	58,000	60,000	44,000
Business/industry	60,000	65,000	48,000	63,000	63,000	45,000
4-year college/university	40,000	39,000	S	42,000	47,000	40,000
Other educational institution	38,000	38,000	38,000	36,000	42,000	36,000
Government	52,000	60,000	42,000	53,000	57,000	41,000
Arts/humanities	53,000	60,000	38,000	56,000	60,000	44,000
Business/industry	60,000	65,000	S	62,000	62,000	45,000
4-year college/university	40,000	S	S	40,000	S	S
Other educational institution	38,000	S	38,000	35,000	S	S
Government	55,000	62,000	S	50,000	59,000	52,000
Education, except science/mathematics teacher education	40,000	45,000	39,000	40,000	48,000	41,000
Business/industry	48,000	54,000	S	54,000	53,000	42,000
4-year college/university	S	S	S	S	S	S
Other educational institution	38,000	38,000	38,000	35,000	44,000	39,000
Government	41,000	S	S	40,000	S	40,000
Management/administration	62,000	66,000	42,000	67,000	67,000	46,000
Business/industry	65,000	68,000	54,000	70,000	69,000	50,000
4-year college/university	47,000	S	S	50,000	50,000	S
Other educational institution	33,000	S	33,000	S	S	S
Government	57,000	60,000	S	60,000	60,000	38,000
Sales/marketing	55,000	60,000	S	60,000	50,000	52,000
Business/industry	60,000	55,000	S	62,000	55,000	52,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social services/related	43,000	51,000	S	42,000	46,000	40,000
Business/industry	45,000	60,000	S	42,000	47,000	42,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	35,000	S	S	S	S	S
Other non-S&E fields	48,000	48,000	40,000	50,000	50,000	40,000
Business/industry	50,000	52,000	S	50,000	50,000	40,000
4-year college/university	36,000	S	S	S	S	S
Other educational institution	40,000	S	40,000	S	S	S
Government	52,000	53,000	S	54,000	60,000	50,000
Master's degrees, all fields	63,000	70,000	48,000	70,000	72,000	54,000
Business/industry	75,000	77,000	54,000	80,000	79,000	58,000
4-year college/university	45,000	40,000	45,000	49,000	47,000	48,000
Other educational institution	50,000	48,000	48,000	52,000	50,000	49,000
Government	63,000	65,000	56,000	67,000	63,000	54,000
S&E fields	67,000	72,000	48,000	70,000	75,000	51,000

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Business/industry	75,000	78,000	47,000	77,000	80,000	55,000
4-year college/university	40,000	35,000	43,000	49,000	47,000	39,000
Other educational institution	51,000	45,000	51,000	55,000	43,000	50,000
Government	63,000	68,000	50,000	68,000	60,000	53,000
Sciences	60,000	65,000	48,000	65,000	72,000	47,000
Business/industry	70,000	75,000	45,000	70,000	80,000	46,000
4-year college/university	40,000	35,000	40,000	47,000	47,000	39,000
Other educational institution	51,000	46,000	52,000	55,000	43,000	50,000
Government	58,000	62,000	48,000	63,000	60,000	50,000
Biological/agricultural/environmental life sciences	49,000	50,000	44,000	53,000	47,000	46,000
Business/industry	52,000	60,000	38,000	55,000	52,000	40,000
4-year college/university	38,000	32,000	42,000	42,000	S	56,000
Other educational institution	50,000	48,000	49,000	63,000	S	S
Government	50,000	51,000	S	50,000	42,000	50,000
Agricultural/food sciences	50,000	51,000	40,000	54,000	S	38,000
Business/industry	56,000	58,000	S	65,000	S	32,000
4-year college/university	42,000	40,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	49,000	S	S	S	S	S
Biological sciences	50,000	50,000	44,000	53,000	47,000	50,000
Business/industry	52,000	60,000	42,000	53,000	52,000	50,000
4-year college/university	37,000	31,000	43,000	46,000	S	50,000
Other educational institution	52,000	S	50,000	63,000	S	S
Government	53,000	50,000	S	54,000	S	56,000
Environmental life sciences	45,000	54,000	S	43,000	60,000	35,000
Business/industry	45,000	58,000	S	51,000	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	45,000	60,000	S	42,000	S	S
Computer/mathematical sciences	78,000	80,000	50,000	82,000	80,000	64,000
Business/industry	82,000	82,000	S	85,000	82,000	69,000
4-year college/university	50,000	47,000	45,000	50,000	60,000	S
Other educational institution	50,000	42,000	50,000	50,000	42,000	S
Government	75,000	72,000	S	82,000	76,000	S
Computer/information sciences	80,000	80,000	51,000	85,000	80,000	63,000
Business/industry	82,000	80,000	S	85,000	82,000	60,000
4-year college/university	58,000	58,000	S	58,000	60,000	S
Other educational institution	48,000	S	50,000	S	S	S
Government	80,000	74,000	S	90,000	80,000	S
Mathematical sciences	70,000	80,000	50,000	76,000	75,000	72,000
Business/industry	84,000	86,000	S	90,000	82,000	80,000
4-year college/university	49,000	42,000	42,000	49,000	50,000	S
Other educational institution	50,000	S	50,000	50,000	S	S
Government	65,000	65,000	S	70,000	S	S
Physical/related sciences	64,000	65,000	51,000	68,000	65,000	59,000
Business/industry	70,000	71,000	S	70,000	72,000	60,000
4-year college/university	28,000	22,000	38,000	S	51,000	S
Other educational institution	53,000	S	52,000	60,000	S	S
Government	65,000	63,000	S	65,000	58,000	56,000
Chemistry, except biochemistry	60,000	62,000	53,000	65,000	57,000	55,000
Business/industry	66,000	65,000	S	70,000	55,000	66,000
4-year college/university	20,000	20,000	S	S	S	S

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other educational institution	53,000	S	53,000	S	S	S
Government	52,000	S	S	S	S	S
Earth/atmospheric/ocean sciences	64,000	65,000	60,000	66,000	63,000	65,000
Business/industry	68,000	70,000	S	68,000	70,000	60,000
4-year college/university	40,000	35,000	S	S	S	S
Other educational institution	60,000	S	60,000	S	S	S
Government	65,000	65,000	S	66,000	S	S
Physics/astronomy	70,000	75,000	44,000	100,000	80,000	30,000
Business/industry	80,000	80,000	S	110,000	90,000	S
4-year college/university	31,000	21,000	S	S	S	S
Other educational institution	44,000	S	S	S	S	S
Government	S	S	S	S	S	S
Other physical sciences	65,000	S	S	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social/related sciences	50,000	52,000	49,000	60,000	54,000	45,000
Business/industry	52,000	63,000	42,000	60,000	70,000	42,000
4-year college/university	39,000	38,000	38,000	45,000	34,000	34,000
Other educational institution	52,000	46,000	52,000	54,000	45,000	50,000
Government	57,000	70,000	50,000	62,000	50,000	48,000
Economics	73,000	70,000	45,000	85,000	73,000	60,000
Business/industry	77,000	71,000	S	88,000	77,000	69,000
4-year college/university	52,000	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	70,000	S	S	82,000	S	S
Political/related sciences	70,000	60,000	55,000	74,000	52,000	73,000
Business/industry	69,000	65,000	S	74,000	65,000	65,000
4-year college/university	S	S	S	S	S	S
Other educational institution	52,000	S	48,000	S	S	S
Government	75,000	70,000	S	82,000	S	90,000
Psychology	48,000	50,000	49,000	50,000	44,000	43,000
Business/industry	45,000	60,000	42,000	48,000	44,000	40,000
4-year college/university	38,000	30,000	45,000	45,000	S	35,000
Other educational institution	52,000	50,000	54,000	52,000	S	50,000
Government	48,000	69,000	S	57,000	S	45,000
Sociology/anthropology	43,000	52,000	38,000	50,000	42,000	43,000
Business/industry	50,000	63,000	S	47,000	S	50,000
4-year college/university	33,000	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	44,000	65,000	S	49,000	S	42,000
Other social sciences	52,000	50,000	54,000	55,000	60,000	39,000
Business/industry	53,000	60,000	S	55,000	S	33,000
4-year college/university	44,000	S	S	45,000	S	S
Other educational institution	54,000	43,000	55,000	S	S	S
Government	60,000	78,000	S	62,000	S	50,000
Engineering	80,000	80,000	60,000	86,000	82,000	78,000
Business/industry	84,000	80,000	S	90,000	84,000	80,000
4-year college/university	46,000	30,000	60,000	63,000	60,000	S
Other educational institution	45,000	S	40,000	S	S	S
Government	75,000	75,000	S	75,000	69,000	79,000

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Aerospace/related engineering	80,000	80,000	S	95,000	83,000	65,000
Business/industry	81,000	80,000	S	100,000	84,000	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	76,000	76,000	S	S	S	S
Chemical engineering	86,000	80,000	S	90,000	90,000	75,000
Business/industry	91,000	87,000	S	97,000	92,000	77,000
4-year college/university	21,000	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Civil/architectural engineering	73,000	70,000	S	79,000	65,000	75,000
Business/industry	75,000	70,000	S	80,000	67,000	75,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	68,000	65,000	S	75,000	63,000	75,000
Electrical/computer engineering	90,000	89,000	60,000	97,000	87,000	80,000
Business/industry	90,000	90,000	S	98,000	88,000	80,000
4-year college/university	43,000	40,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	84,000	84,000	S	84,000	90,000	S
Industrial engineering	80,000	73,000	S	86,000	75,000	86,000
Business/industry	80,000	74,000	S	90,000	75,000	80,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	79,000	S	S	S	S	S
Mechanical engineering	80,000	76,000	S	85,000	85,000	74,000
Business/industry	79,000	75,000	S	85,000	84,000	79,000
4-year college/university	60,000	68,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	86,000	86,000	S	100,000	S	S
Other engineering	75,000	73,000	S	80,000	69,000	82,000
Business/industry	80,000	75,000	S	82,000	72,000	83,000
4-year college/university	52,000	24,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	71,000	75,000	S	71,000	S	90,000
S&E-related fields	57,000	60,000	52,000	62,000	64,000	57,000
Business/industry	62,000	65,000	62,000	68,000	66,000	60,000
4-year college/university	59,000	50,000	58,000	61,000	S	62,000
Other educational institution	49,000	47,000	48,000	50,000	52,000	43,000
Government	62,000	61,000	65,000	65,000	69,000	58,000
Health	58,000	57,000	54,000	62,000	65,000	58,000
Business/industry	61,000	62,000	62,000	65,000	65,000	60,000
4-year college/university	61,000	50,000	60,000	62,000	S	63,000
Other educational institution	45,000	47,000	44,000	50,000	S	43,000
Government	60,000	58,000	63,000	64,000	S	58,000
Science/mathematics teacher education	50,000	47,000	50,000	50,000	53,000	42,000
Business/industry	40,000	S	S	S	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	50,000	48,000	50,000	50,000	53,000	S
Government	S	S	S	S	S	S
Technology/technical fields	73,000	75,000	S	80,000	75,000	47,000
Business/industry	78,000	77,000	S	85,000	79,000	47,000

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Other S&E-related fields	60,000	62,000	S	68,000	57,000	65,000
Business/industry	62,000	60,000	S	69,000	S	80,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	70,000	S	S	75,000	S	56,000
Non-S&E fields	63,000	70,000	47,000	73,000	68,000	52,000
Business/industry	78,000	80,000	50,000	84,000	75,000	57,000
4-year college/university	45,000	45,000	40,000	46,000	46,000	46,000
Other educational institution	50,000	48,000	48,000	53,000	51,000	50,000
Government	63,000	62,000	52,000	69,000	63,000	52,000
Arts/humanities	57,000	59,000	48,000	57,000	52,000	53,000
Business/industry	62,000	80,000	S	52,000	60,000	50,000
4-year college/university	45,000	S	45,000	S	S	S
Other educational institution	53,000	S	50,000	57,000	S	S
Government	50,000	S	S	S	S	S
Education, except science/mathematics teacher education	50,000	50,000	46,000	53,000	52,000	49,000
Business/industry	52,000	55,000	54,000	59,000	55,000	40,000
4-year college/university	42,000	43,000	35,000	43,000	S	34,000
Other educational institution	49,000	49,000	47,000	51,000	51,000	50,000
Government	55,000	60,000	S	55,000	S	55,000
Management/administration	84,000	80,000	58,000	87,000	75,000	77,000
Business/industry	87,000	85,000	61,000	90,000	80,000	80,000
4-year college/university	48,000	39,000	39,000	61,000	53,000	46,000
Other educational institution	53,000	S	52,000	64,000	S	S
Government	72,000	75,000	S	75,000	70,000	65,000
Sales/marketing	89,000	75,000	S	90,000	73,000	83,000
Business/industry	90,000	85,000	S	90,000	78,000	83,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social services/related	47,000	48,000	44,000	49,000	57,000	45,000
Business/industry	45,000	48,000	40,000	47,000	57,000	44,000
4-year college/university	42,000	S	S	S	S	S
Other educational institution	50,000	S	50,000	S	S	52,000
Government	50,000	S	S	56,000	S	49,000
Other non-S&E fields	60,000	65,000	50,000	68,000	55,000	50,000
Business/industry	63,000	70,000	S	68,000	63,000	55,000
4-year college/university	42,000	S	46,000	40,000	S	S
Other educational institution	50,000	S	52,000	S	S	S
Government	69,000	65,000	S	75,000	55,000	51,000
Doctorate degrees, all fields	77,000	78,000	63,000	89,000	80,000	72,000
Business/industry	95,000	96,000	68,000	100,000	90,000	80,000
4-year college/university	65,000	65,000	65,000	77,000	60,000	64,000
Other educational institution	61,000	60,000	55,000	77,000	55,000	60,000
Government	80,000	82,000	91,000	82,000	76,000	72,000
S&E fields	80,000	80,000	65,000	91,000	83,000	79,000
Business/industry	97,000	96,000	91,000	103,000	90,000	90,000
4-year college/university	65,000	65,000	66,000	75,000	60,000	64,000
Other educational institution	56,000	59,000	51,000	60,000	60,000	61,000

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	82,000	83,000	86,000	87,000	79,000	75,000
Sciences	75,000	75,000	64,000	87,000	80,000	76,000
Business/industry	95,000	95,000	92,000	100,000	90,000	89,000
4-year college/university	63,000	62,000	64,000	74,000	60,000	63,000
Other educational institution	56,000	59,000	52,000	60,000	63,000	61,000
Government	80,000	81,000	84,000	86,000	76,000	75,000
Biological/agricultural/environmental life sciences	72,000	70,000	65,000	84,000	65,000	80,000
Business/industry	90,000	90,000	92,000	100,000	75,000	98,000
4-year college/university	60,000	60,000	67,000	72,000	48,000	65,000
Other educational institution	50,000	56,000	48,000	52,000	S	S
Government	75,000	73,000	S	85,000	72,000	79,000
Agricultural/food sciences	72,000	72,000	69,000	75,000	72,000	62,000
Business/industry	82,000	85,000	S	83,000	S	82,000
4-year college/university	65,000	64,000	69,000	70,000	S	61,000
Other educational institution	S	S	S	S	S	S
Government	73,000	75,000	S	78,000	S	S
Biological sciences	72,000	70,000	65,000	85,000	65,000	84,000
Business/industry	93,000	92,000	95,000	100,000	74,000	100,000
4-year college/university	60,000	59,000	67,000	72,000	45,000	65,000
Other educational institution	49,000	58,000	48,000	50,000	S	S
Government	75,000	72,000	S	90,000	70,000	84,000
Environmental life sciences	72,000	72,000	61,000	80,000	S	70,000
Business/industry	89,000	85,000	S	94,000	S	S
4-year college/university	63,000	65,000	61,000	72,000	S	S
Other educational institution	S	S	S	S	S	S
Government	73,000	72,000	S	75,000	S	S
Computer/mathematical sciences	80,000	82,000	64,000	110,000	87,000	68,000
Business/industry	110,000	110,000	S	120,000	100,000	69,000
4-year college/university	65,000	66,000	64,000	80,000	60,000	60,000
Other educational institution	68,000	S	61,000	S	S	S
Government	86,000	86,000	S	103,000	75,000	S
Computer/information sciences	95,000	94,000	77,000	115,000	101,000	*
Business/industry	115,000	116,000	S	120,000	108,000	S
4-year college/university	76,000	77,000	77,000	100,000	60,000	S
Other educational institution	S	S	S	S	S	S
Government	94,000	S	S	S	S	S
Mathematical sciences	74,000	74,000	60,000	100,000	80,000	75,000
Business/industry	100,000	100,000	S	116,000	90,000	100,000
4-year college/university	62,000	62,000	60,000	75,000	60,000	58,000
Other educational institution	68,000	S	S	S	S	S
Government	85,000	85,000	S	124,000	71,000	S
Physical/related sciences	85,000	85,000	64,000	100,000	80,000	82,000
Business/industry	97,000	95,000	200,000	108,000	89,000	87,000
4-year college/university	64,000	63,000	64,000	80,000	60,000	67,000
Other educational institution	53,000	51,000	52,000	60,000	S	S
Government	93,000	99,000	S	100,000	86,000	80,000
Chemistry, except biochemistry	85,000	85,000	60,000	100,000	77,000	82,000
Business/industry	95,000	95,000	104,000	105,000	85,000	84,000
4-year college/university	62,000	60,000	62,000	75,000	63,000	72,000
Other educational institution	53,000	S	53,000	55,000	S	S
Government	83,000	89,000	S	90,000	S	80,000
Earth/atmospheric/ocean sciences	75,000	74,000	62,000	87,000	73,000	65,000

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Business/industry	88,000	88,000	S	90,000	90,000	80,000
4-year college/university	64,000	64,000	62,000	83,000	55,000	S
Other educational institution	S	S	S	S	S	S
Government	85,000	90,000	S	86,000	85,000	S
Physics/astronomy	89,000	90,000	65,000	108,000	84,000	89,000
Business/industry	100,000	100,000	S	110,000	90,000	100,000
4-year college/university	68,000	67,000	68,000	94,000	63,000	70,000
Other educational institution	51,000	S	51,000	S	S	S
Government	105,000	105,000	S	115,000	100,000	97,000
Other physical sciences	70,000	50,000	S	565,000	S	S
Business/industry	110,000	50,000	S	S	S	S
4-year college/university	37,000	37,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social/related sciences	71,000	70,000	62,000	80,000	75,000	73,000
Business/industry	88,000	90,000	75,000	90,000	88,000	85,000
4-year college/university	65,000	65,000	63,000	72,000	62,000	61,000
Other educational institution	60,000	64,000	54,000	60,000	S	63,000
Government	77,000	80,000	80,000	81,000	70,000	72,000
Economics	95,000	90,000	79,000	122,000	82,000	110,000
Business/industry	132,000	130,000	S	144,000	85,000	150,000
4-year college/university	80,000	80,000	79,000	107,000	S	72,000
Other educational institution	S	S	S	S	S	S
Government	96,000	100,000	S	112,000	S	96,000
Political/related sciences	63,000	60,000	57,000	75,000	68,000	79,000
Business/industry	82,000	60,000	S	84,000	S	100,000
4-year college/university	60,000	59,000	59,000	75,000	S	60,000
Other educational institution	48,000	S	S	S	S	S
Government	85,000	73,000	S	92,000	S	102,000
Psychology	71,000	70,000	63,000	75,000	80,000	73,000
Business/industry	83,000	86,000	80,000	81,000	90,000	80,000
4-year college/university	63,000	65,000	62,000	66,000	S	62,000
Other educational institution	64,000	67,000	56,000	70,000	S	65,000
Government	73,000	78,000	79,000	76,000	S	72,000
Sociology/anthropology	62,000	62,000	58,000	72,000	64,000	60,000
Business/industry	67,000	63,000	S	86,000	S	60,000
4-year college/university	60,000	60,000	58,000	68,000	S	55,000
Other educational institution	52,000	S	S	S	S	S
Government	73,000	73,000	S	75,000	S	S
Other social sciences	68,000	66,000	61,000	78,000	73,000	65,000
Business/industry	90,000	95,000	S	100,000	89,000	70,000
4-year college/university	63,000	61,000	62,000	72,000	S	55,000
Other educational institution	60,000	S	60,000	S	S	S
Government	75,000	71,000	S	75,000	S	S
Engineering	94,000	92,000	80,000	105,000	90,000	94,000
Business/industry	100,000	100,000	90,000	110,000	94,000	100,000
4-year college/university	80,000	80,000	80,000	93,000	67,000	80,000
Other educational institution	48,000	S	48,000	S	S	S
Government	89,000	89,000	S	91,000	88,000	75,000
Aerospace/related engineering	85,000	78,000	85,000	106,000	94,000	S
Business/industry	83,000	78,000	S	110,000	S	S
4-year college/university	77,000	72,000	81,000	S	S	S

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other educational institution	S	S	S	S	S	S
Government	96,000	88,000	S	S	S	S
Chemical engineering	95,000	94,000	80,000	105,000	95,000	84,000
Business/industry	100,000	96,000	S	111,000	95,000	100,000
4-year college/university	81,000	86,000	84,000	75,000	S	S
Other educational institution	S	S	S	S	S	S
Government	54,000	78,000	S	S	S	S
Civil/architectural engineering	81,000	80,000	78,000	93,000	84,000	76,000
Business/industry	89,000	90,000	S	95,000	90,000	85,000
4-year college/university	76,000	76,000	78,000	85,000	S	S
Other educational institution	S	S	S	S	S	S
Government	81,000	76,000	S	91,000	S	S
Electrical/computer engineering	100,000	100,000	80,000	115,000	100,000	100,000
Business/industry	107,000	106,000	S	120,000	100,000	100,000
4-year college/university	84,000	84,000	83,000	85,000	73,000	S
Other educational institution	S	S	S	S	S	S
Government	95,000	97,000	S	106,000	S	S
Industrial engineering	84,000	80,000	72,000	100,000	85,000	S
Business/industry	94,000	91,000	S	95,000	88,000	S
4-year college/university	79,000	75,000	72,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Mechanical engineering	90,000	89,000	82,000	100,000	85,000	111,000
Business/industry	94,000	90,000	S	103,000	85,000	116,000
4-year college/university	82,000	80,000	84,000	92,000	S	S
Other educational institution	S	S	S	S	S	S
Government	95,000	95,000	S	S	S	S
Other engineering	90,000	88,000	81,000	109,000	86,000	89,000
Business/industry	96,000	95,000	S	110,000	87,000	94,000
4-year college/university	82,000	80,000	81,000	110,000	55,000	83,000
Other educational institution	S	S	S	S	S	S
Government	89,000	88,000	S	100,000	90,000	S
S&E-related fields	72,000	79,000	65,000	81,000	81,000	70,000
Business/industry	90,000	101,000	S	90,000	85,000	60,000
4-year college/university	65,000	65,000	65,000	74,000	S	60,000
Other educational institution	55,000	S	S	S	S	S
Government	72,000	81,000	S	72,000	S	72,000
Health	72,000	74,000	65,000	74,000	80,000	71,000
Business/industry	80,000	100,000	S	81,000	S	60,000
4-year college/university	69,000	68,000	65,000	77,000	S	60,000
Other educational institution	56,000	S	S	S	S	S
Government	72,000	81,000	S	72,000	S	72,000
Science/mathematics teacher education	61,000	62,000	61,000	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	63,000	65,000	62,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Technology/technical fields	100,000	S	S	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S

TABLE 22. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other S&E-related fields	S	S	S	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Non-S&E fields	65,000	63,000	58,000	85,000	55,000	63,000
Business/industry	68,000	75,000	S	75,000	S	55,000
4-year college/university	65,000	65,000	60,000	87,000	S	68,000
Other educational institution	61,000	S	55,000	90,000	S	60,000
Government	71,000	S	S	S	S	S
Arts/humanities	62,000	59,000	54,000	64,000	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	63,000	62,000	53,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Education, except science/mathematics teacher education	65,000	61,000	55,000	89,000	S	68,000
Business/industry	67,000	S	S	S	S	S
4-year college/university	67,000	60,000	56,000	87,000	S	98,000
Other educational institution	63,000	S	55,000	101,000	S	60,000
Government	S	S	S	S	S	S
Management/administration	85,000	85,000	85,000	77,000	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	90,000	90,000	85,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Sales/marketing	S	S	S	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social services/related	55,000	53,000	50,000	63,000	S	58,000
Business/industry	63,000	S	S	S	S	S
4-year college/university	53,000	58,000	53,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Other non-S&E fields	71,000	59,000	55,000	97,000	S	55,000
Business/industry	97,000	S	S	S	S	S
4-year college/university	60,000	55,000	55,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S

S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification, and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Business/industry includes self-employed individuals, nonprofit organizations, and other unspecified. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Government includes federal, military, state, and local employers. Salaries are for principal job and rounded to the nearest thousand. Respondents may have provided multiple responses for work activity.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 23. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
All degree levels and fields[b]	60,000	70,000	49,000	50,000	63,000	50,000	50,000	61,000	56,000
S&E fields	60,000	67,000	44,000	48,000	63,000	48,000	49,000	60,000	51,000
Sciences	52,000	60,000	42,000	42,000	55,000	45,000	44,000	53,000	43,000
Biological/agricultural/environmental life sciences	46,000	50,000	41,000	63,000	46,000	42,000	39,000	48,000	42,000
Agricultural sciences	43,000	44,000	40,000	S	35,000	54,000	30,000	43,000	51,000
Biological sciences	48,000	52,000	41,000	61,000	47,000	41,000	39,000	49,000	42,000
Environmental life sciences	45,000	51,000	40,000	S	33,000	45,000	62,000	46,000	S
Computer/mathematical sciences	68,000	72,000	58,000	S	70,000	54,000	55,000	70,000	62,000
Computer/information sciences	70,000	75,000	60,000	S	70,000	55,000	56,000	74,000	64,000
Mathematics/statistics	60,000	68,000	50,000	S	58,000	49,000	50,000	65,000	46,000
Physical/related sciences	62,000	67,000	46,000	48,000	58,000	50,000	48,000	65,000	56,000
Chemistry, except biochemistry	60,000	65,000	48,000	S	56,000	50,000	48,000	65,000	45,000
Earth/atmospheric/ocean sciences	58,000	60,000	43,000	S	54,000	S	48,000	58,000	56,000
Physics/astronomy	75,000	80,000	46,000	S	62,000	55,000	73,000	80,000	60,000
Other physical sciences	50,000	69,000	35,000	S	24,000	50,000	S	52,000	S
Social/related sciences	48,000	57,000	40,000	34,000	45,000	42,000	41,000	50,000	40,000
Economics	63,000	69,000	51,000	S	50,000	50,000	55,000	70,000	55,000
Political/related sciences	55,000	63,000	43,000	S	40,000	40,000	49,000	60,000	40,000
Psychology	43,000	53,000	40,000	30,000	40,000	40,000	39,000	45,000	40,000
Sociology/anthropology	40,000	45,000	35,000	41,000	35,000	43,000	38,000	41,000	40,000
Other social sciences	44,000	49,000	40,000	S	52,000	40,000	40,000	45,000	42,000
Engineering	75,000	76,000	65,000	70,000	73,000	65,000	63,000	77,000	75,000
Aerospace/aeronautical/astronautical engineering	75,000	77,000	61,000	S	75,000	81,000	50,000	78,000	72,000
Chemical engineering	80,000	85,000	65,000	S	72,000	62,000	64,000	85,000	70,000
Civil/architectural engineering	70,000	70,000	56,000	S	65,000	60,000	56,000	70,000	89,000
Electrical/computer engineering	80,000	80,000	75,000	S	79,000	68,000	72,000	82,000	80,000
Industrial engineering	73,000	74,000	63,000	S	73,000	64,000	60,000	75,000	S
Mechanical engineering	75,000	75,000	63,000	S	68,000	70,000	65,000	77,000	72,000
Other engineering	70,000	72,000	60,000	S	70,000	60,000	63,000	70,000	72,000
S&E-related fields	60,000	76,000	52,000	50,000	64,000	55,000	50,000	61,000	60,000
Health	62,000	95,000	54,000	60,000	65,000	55,000	55,000	64,000	60,000
Science/mathematics teacher education	45,000	47,000	43,000	S	30,000	48,000	32,000	45,000	S
Technology/technical fields	65,000	65,000	65,000	S	72,000	55,000	44,000	65,000	62,000
Other S&E-related fields	60,000	65,000	49,000	S	50,000	60,000	54,000	64,000	S
Non-S&E fields	62,000	70,000	50,000	50,000	63,000	52,000	55,000	64,000	65,000
Arts/humanities	55,000	60,000	47,000	S	59,000	50,000	51,000	55,000	35,000
Education, except science/mathematics teacher education	48,000	51,000	45,000	35,000	50,000	48,000	40,000	49,000	45,000
Management/administration	75,000	80,000	65,000	75,000	70,000	60,000	72,000	79,000	90,000
Sales/marketing	75,000	79,000	62,000	S	90,000	S	S	70,000	S
Social services/related	46,000	50,000	45,000	S	45,000	45,000	50,000	45,000	S
Other non-S&E fields	70,000	80,000	56,000	S	62,000	55,000	69,000	74,000	79,000
Bachelor's degrees	54,000	62,000	45,000	47,000	54,000	46,000	45,000	55,000	50,000
S&E fields	55,000	63,000	40,000	48,000	53,000	45,000	47,000	57,000	48,000
Sciences	48,000	56,000	40,000	42,000	47,000	41,000	41,000	50,000	40,000

TABLE 23. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Biological/agricultural/environmental life sciences	43,000	48,000	40,000	63,000	42,000	40,000	35,000	45,000	39,000
Agricultural sciences	40,000	41,000	36,000	S	29,000	60,000	25,000	40,000	S
Biological sciences	45,000	50,000	40,000	S	43,000	40,000	35,000	46,000	39,000
Environmental life sciences	44,000	51,000	36,000	S	S	S	62,000	45,000	S
Computer/mathematical sciences	64,000	69,000	53,000	S	60,000	50,000	52,000	68,000	52,000
Computer/information sciences	66,000	70,000	58,000	S	60,000	51,000	55,000	70,000	55,000
Mathematics/statistics	58,000	61,000	45,000	S	45,000	49,000	49,000	60,000	35,000
Physical/related sciences	52,000	60,000	42,000	S	42,000	50,000	48,000	56,000	45,000
Chemistry, except biochemistry	52,000	58,000	46,000	S	47,000	45,000	48,000	57,000	S
Earth/atmospheric/ocean sciences	50,000	52,000	40,000	S	S	S	35,000	50,000	S
Physics/astronomy	69,000	75,000	38,000	S	42,000	S	98,000	75,000	S
Other physical sciences	45,000	69,000	33,000	S	S	S	S	50,000	S
Social/related sciences	45,000	54,000	37,000	34,000	40,000	40,000	40,000	46,000	40,000
Economics	60,000	65,000	49,000	S	45,000	50,000	55,000	65,000	50,000
Political/related sciences	53,000	60,000	40,000	S	36,000	40,000	48,000	57,000	40,000
Psychology	39,000	50,000	35,000	S	35,000	36,000	36,000	40,000	37,000
Sociology/anthropology	40,000	45,000	35,000	S	35,000	42,000	38,000	40,000	37,000
Other social sciences	40,000	45,000	37,000	S	46,000	38,000	40,000	42,000	S
Engineering	71,000	73,000	61,000	70,000	65,000	64,000	60,000	75,000	72,000
Aerospace/aeronautical/astronautical engineering	72,000	73,000	53,000	S	54,000	S	45,000	75,000	S
Chemical engineering	75,000	80,000	65,000	S	60,000	57,000	46,000	81,000	S
Civil/architectural engineering	67,000	70,000	55,000	S	60,000	60,000	54,000	70,000	86,000
Electrical/computer engineering	75,000	75,000	70,000	S	70,000	66,000	69,000	78,000	75,000
Industrial engineering	70,000	72,000	55,000	S	52,000	52,000	54,000	73,000	S
Mechanical engineering	73,000	75,000	60,000	S	65,000	64,000	62,000	75,000	62,000
Other engineering	64,000	65,000	56,000	S	60,000	50,000	60,000	65,000	S
S&E-related fields	52,000	60,000	50,000	50,000	55,000	50,000	42,000	52,000	55,000
Health	50,000	65,000	50,000	60,000	54,000	50,000	43,000	50,000	55,000
Science/mathematics teacher education	40,000	43,000	37,000	S	S	40,000	30,000	40,000	S
Technology/technical fields	62,000	62,000	65,000	S	70,000	55,000	40,000	65,000	S
Other S&E-related fields	60,000	62,000	48,000	S	50,000	46,000	55,000	60,000	S
Non-S&E fields	51,000	60,000	44,000	S	45,000	42,000	46,000	54,000	48,000
Arts/humanities	53,000	60,000	44,000	S	60,000	50,000	53,000	55,000	S
Education, except science/mathematics teacher education	40,000	43,000	38,000	S	30,000	40,000	38,000	41,000	S
Management/administration	62,000	67,000	52,000	S	45,000	50,000	52,000	65,000	68,000
Sales/marketing	55,000	60,000	50,000	S	S	S	S	55,000	S
Social services/related	43,000	45,000	42,000	S	S	S	S	45,000	S
Other non-S&E fields	48,000	52,000	42,000	S	46,000	40,000	43,000	50,000	S
Master's degrees	63,000	74,000	52,000	56,000	70,000	55,000	55,000	64,000	67,000
S&E fields	67,000	75,000	52,000	48,000	72,000	57,000	56,000	68,000	63,000
Sciences	60,000	69,000	50,000	48,000	67,000	55,000	48,000	60,000	50,000
Biological/agricultural/environmental life sciences	49,000	50,000	48,000	S	47,000	50,000	48,000	50,000	S
Agricultural sciences	50,000	50,000	49,000	S	S	S	S	50,000	S
Biological sciences	50,000	52,000	47,000	S	47,000	50,000	48,000	50,000	S
Environmental life sciences	45,000	45,000	47,000	S	S	S	S	45,000	S

TABLE 23. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Computer/mathematical sciences	78,000	82,000	68,000	S	76,000	73,000	57,000	80,000	85,000
Computer/information sciences	80,000	84,000	72,000	S	77,000	73,000	57,000	85,000	85,000
Mathematics/statistics	70,000	75,000	59,000	S	70,000	56,000	50,000	72,000	S
Physical/related sciences	64,000	65,000	55,000	S	60,000	55,000	48,000	65,000	S
Chemistry, except biochemistry	60,000	60,000	56,000	S	55,000	S	S	63,000	S
Earth/atmospheric/ocean sciences	64,000	66,000	43,000	S	S	S	S	65,000	S
Physics/astronomy	70,000	71,000	68,000	S	67,000	S	S	78,000	S
Other physical sciences	65,000	S	S	S	S	S	S	S	S
Social/related sciences	50,000	63,000	46,000	S	50,000	52,000	45,000	52,000	47,000
Economics	73,000	80,000	60,000	S	56,000	S	S	80,000	S
Political/related sciences	70,000	74,000	55,000	S	S	57,000	65,000	74,000	S
Psychology	48,000	54,000	45,000	S	S	50,000	45,000	47,000	48,000
Sociology/anthropology	43,000	49,000	40,000	S	S	44,000	S	42,000	S
Other social sciences	52,000	60,000	46,000	S	S	55,000	40,000	52,000	S
Engineering	80,000	83,000	70,000	S	80,000	71,000	69,000	84,000	84,000
Aerospace/aeronautical/astronautical engineering	80,000	80,000	69,000	S	S	S	S	80,000	S
Chemical engineering	86,000	92,000	64,000	S	90,000	S	64,000	91,000	S
Civil/architectural engineering	73,000	75,000	62,000	S	70,000	62,000	60,000	75,000	S
Electrical/computer engineering	90,000	90,000	80,000	S	85,000	74,000	78,000	93,000	S
Industrial engineering	80,000	80,000	79,000	S	80,000	S	61,000	83,000	S
Mechanical engineering	80,000	80,000	74,000	S	75,000	S	70,000	80,000	S
Other engineering	75,000	80,000	60,000	S	70,000	77,000	70,000	80,000	S
S&E-related fields	57,000	65,000	54,000	S	62,000	55,000	51,000	58,000	70,000
Health	58,000	73,000	55,000	S	60,000	53,000	53,000	59,000	75,000
Science/mathematics teacher education	50,000	50,000	50,000	S	S	55,000	50,000	50,000	S
Technology/technical fields	73,000	73,000	73,000	S	80,000	S	S	72,000	S
Other S&E-related fields	60,000	65,000	50,000	S	55,000	S	S	65,000	S
Non-S&E fields	63,000	75,000	50,000	61,000	66,000	55,000	57,000	65,000	68,000
Arts/humanities	57,000	62,000	50,000	S	59,000	S	S	57,000	S
Education, except science/mathematics teacher education	50,000	53,000	46,000	S	53,000	50,000	40,000	50,000	45,000
Management/administration	84,000	90,000	70,000	S	76,000	70,000	80,000	85,000	120,000
Sales/marketing	89,000	90,000	80,000	S	100,000	S	S	90,000	S
Social services/related	47,000	50,000	45,000	S	45,000	47,000	50,000	47,000	S
Other non-S&E fields	60,000	68,000	49,000	S	57,000	55,000	57,000	62,000	S
Doctorate degrees	77,000	83,000	63,000	59,000	78,000	60,000	63,000	80,000	70,000
S&E fields	80,000	85,000	65,000	65,000	79,000	60,000	67,000	80,000	75,000
Sciences	75,000	80,000	63,000	65,000	70,000	60,000	62,000	79,000	72,000
Biological/agricultural/environmental life sciences	72,000	75,000	60,000	S	60,000	60,000	61,000	75,000	70,000
Agricultural sciences	72,000	74,000	56,000	S	52,000	35,000	61,000	76,000	S
Biological sciences	72,000	75,000	60,000	S	60,000	69,000	60,000	75,000	70,000
Environmental life sciences	72,000	74,000	58,000	S	67,000	S	S	73,000	S
Computer/mathematical sciences	80,000	85,000	60,000	S	82,000	40,000	82,000	84,000	92,000
Computer/information sciences	95,000	100,000	79,000	S	94,000	60,000	115,000	100,000	S
Mathematics/statistics	74,000	78,000	52,000	S	72,000	40,000	65,000	79,000	S
Physical/related sciences	85,000	86,000	70,000	S	80,000	75,000	70,000	87,000	92,000

TABLE 23. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and race/ethnicity: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Chemistry, except biochemistry	85,000	87,000	74,000	S	79,000	74,000	72,000	89,000	92,000
Earth/atmospheric/ocean sciences	75,000	79,000	61,000	S	69,000	S	70,000	75,000	S
Physics/astronomy	89,000	90,000	76,000	S	84,000	75,000	70,000	90,000	72,000
Other physical sciences	70,000	71,000	67,000	S	S	S	S	67,000	S
Social/related sciences	71,000	78,000	63,000	59,000	68,000	62,000	62,000	73,000	65,000
Economics	95,000	96,000	84,000	S	83,000	65,000	82,000	100,000	S
Political/related sciences	63,000	65,000	60,000	S	55,000	59,000	48,000	66,000	S
Psychology	71,000	80,000	64,000	S	55,000	63,000	62,000	73,000	69,000
Sociology/anthropology	62,000	67,000	60,000	S	66,000	69,000	48,000	62,000	68,000
Other social sciences	68,000	70,000	63,000	S	70,000	60,000	52,000	70,000	S
Engineering	94,000	95,000	80,000	S	90,000	81,000	87,000	98,000	99,000
Aerospace/aeronautical/astronautical engineering	85,000	86,000	S	S	75,000	S	S	98,000	S
Chemical engineering	95,000	98,000	80,000	S	90,000	85,000	86,000	100,000	S
Civil/architectural engineering	81,000	82,000	62,000	S	85,000	S	80,000	80,000	S
Electrical/computer engineering	100,000	100,000	95,000	S	100,000	92,000	89,000	102,000	106,000
Industrial engineering	84,000	88,000	80,000	S	88,000	S	S	82,000	S
Mechanical engineering	90,000	91,000	71,000	S	87,000	S	87,000	95,000	S
Other engineering	90,000	92,000	80,000	S	85,000	81,000	93,000	95,000	S
S&E-related fields	72,000	90,000	62,000	S	69,000	70,000	55,000	73,000	72,000
Health	72,000	85,000	64,000	S	62,000	78,000	45,000	72,000	75,000
Science/mathematics teacher education	61,000	S	S	S	S	S	S	62,000	S
Technology/technical fields	100,000	100,000	S	S	S	S	S	S	S
Other S&E-related fields	S	S	S	S	S	S	S	S	S
Non-S&E fields	65,000	71,000	60,000	S	80,000	58,000	63,000	65,000	S
Arts/humanities	62,000	63,000	50,000	S	S	S	S	63,000	S
Education, except science/mathematics teacher education	65,000	80,000	60,000	S	S	53,000	S	70,000	S
Management/administration	85,000	80,000	S	S	80,000	S	S	88,000	S
Sales/marketing	S	S	S	S	S	S	S	S	S
Social services/related	55,000	50,000	60,000	S	S	S	S	50,000	S
Other non-S&E fields	71,000	90,000	59,000	S	S	S	S	64,000	S

S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] "Other" includes Native Hawaiian/Other Pacific Islander, and non-Hispanic respondents reporting 2 or more races.

[b] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003.
See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Salaries are for principal job and rounded to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 24. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All degree levels and fields[a]	60,000	64,000	63,000	60,000	55,000	60,000	50,000	56,000	58,000	65,000
S&E fields	60,000	63,000	60,000	60,000	52,000	58,000	53,000	57,000	55,000	62,000
Sciences	52,000	58,000	56,000	50,000	49,000	52,000	44,000	47,000	50,000	55,000
Biological/agricultural/environmental life sciences	46,000	52,000	48,000	47,000	46,000	45,000	43,000	43,000	48,000	50,000
Agricultural sciences	43,000	40,000	35,000	40,000	40,000	45,000	46,000	44,000	55,000	50,000
Biological sciences	48,000	54,000	50,000	48,000	50,000	45,000	43,000	43,000	45,000	48,000
Environmental life sciences	45,000	41,000	54,000	48,000	38,000	44,000	31,000	40,000	35,000	56,000
Computer/mathematical sciences	68,000	68,000	70,000	65,000	60,000	71,000	58,000	60,000	67,000	73,000
Computer/information sciences	70,000	75,000	72,000	70,000	65,000	73,000	60,000	65,000	72,000	75,000
Mathematics/statistics	60,000	55,000	68,000	60,000	55,000	67,000	43,000	49,000	50,000	70,000
Physical/related sciences	62,000	60,000	65,000	63,000	60,000	60,000	65,000	57,000	60,000	65,000
Chemistry, except biochemistry	60,000	70,000	65,000	60,000	66,000	55,000	52,000	47,000	67,000	60,000
Earth/atmospheric/ocean sciences	58,000	41,000	55,000	57,000	54,000	65,000	87,000	60,000	50,000	63,000
Physics/astronomy	75,000	55,000	88,000	74,000	56,000	78,000	72,000	75,000	85,000	76,000
Other physical sciences	50,000	S	70,000	S	S	37,000	S	40,000	51,000	55,000
Social/related sciences	48,000	53,000	52,000	47,000	42,000	46,000	40,000	41,000	40,000	50,000
Economics	63,000	75,000	75,000	56,000	57,000	65,000	56,000	65,000	50,000	65,000
Political/related sciences	55,000	63,000	57,000	48,000	61,000	60,000	60,000	45,000	48,000	60,000
Psychology	43,000	40,000	48,000	45,000	38,000	40,000	38,000	40,000	44,000	50,000
Sociology/anthropology	40,000	44,000	40,000	42,000	33,000	42,000	31,000	32,000	38,000	45,000
Other social sciences	44,000	60,000	46,000	50,000	40,000	44,000	30,000	40,000	36,000	47,000
Engineering	75,000	80,000	73,000	73,000	70,000	73,000	72,000	76,000	75,000	80,000
Aerospace/aeronautical/astronautical engineering	75,000	95,000	61,000	79,000	74,000	78,000	91,000	73,000	80,000	75,000
Chemical engineering	80,000	85,000	80,000	75,000	70,000	67,000	90,000	83,000	88,000	85,000
Civil/architectural engineering	70,000	70,000	68,000	70,000	70,000	70,000	60,000	67,000	62,000	75,000
Electrical/computer engineering	80,000	89,000	80,000	73,000	70,000	80,000	69,000	80,000	82,000	87,000
Industrial engineering	73,000	75,000	69,000	75,000	70,000	80,000	80,000	68,000	67,000	70,000
Mechanical engineering	75,000	73,000	73,000	72,000	70,000	72,000	75,000	83,000	73,000	80,000
Other engineering	70,000	66,000	70,000	74,000	66,000	67,000	78,000	70,000	57,000	75,000
S&E-related fields	60,000	64,000	62,000	57,000	57,000	60,000	52,000	59,000	61,000	66,000
Health	62,000	65,000	65,000	60,000	60,000	62,000	55,000	60,000	62,000	68,000
Science/mathematics teacher education	45,000	55,000	51,000	48,000	42,000	40,000	36,000	42,000	42,000	40,000
Technology/technical fields	65,000	60,000	70,000	63,000	55,000	65,000	48,000	65,000	68,000	72,000
Other S&E-related fields	60,000	73,000	56,000	55,000	60,000	60,000	S	72,000	65,000	70,000
Non-S&E fields	62,000	65,000	68,000	60,000	56,000	61,000	48,000	54,000	58,000	70,000
Arts/humanities	55,000	60,000	67,000	50,000	48,000	52,000	48,000	50,000	40,000	60,000

TABLE 24. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Education, except science/mathematics teacher education	48,000	52,000	50,000	50,000	40,000	48,000	41,000	43,000	42,000	55,000
Management/administration	75,000	80,000	80,000	75,000	77,000	75,000	65,000	74,000	70,000	80,000
Sales/marketing	75,000	83,000	75,000	63,000	90,000	55,000	S	55,000	62,000	110,000
Social services/related	46,000	50,000	50,000	45,000	40,000	42,000	41,000	42,000	52,000	48,000
Other non-S&E fields	70,000	70,000	80,000	64,000	60,000	74,000	53,000	59,000	66,000	80,000
Bachelor's degrees	54,000	60,000	57,000	53,000	50,000	52,000	46,000	51,000	50,000	58,000
S&E fields	55,000	60,000	57,000	55,000	50,000	52,000	50,000	54,000	50,000	58,000
Sciences	48,000	50,000	52,000	48,000	46,000	48,000	40,000	44,000	45,000	50,000
Biological/agricultural/environmental life sciences	43,000	45,000	46,000	45,000	43,000	42,000	38,000	42,000	42,000	47,000
Agricultural sciences	40,000	40,000	32,000	37,000	38,000	43,000	38,000	44,000	50,000	43,000
Biological sciences	45,000	48,000	46,000	45,000	50,000	41,000	40,000	42,000	42,000	45,000
Environmental life sciences	44,000	S	54,000	48,000	38,000	43,000	S	40,000	30,000	56,000
Computer/mathematical sciences	64,000	62,000	65,000	62,000	60,000	66,000	55,000	55,000	65,000	68,000
Computer/information sciences	66,000	70,000	65,000	68,000	63,000	67,000	59,000	62,000	72,000	68,000
Mathematics/statistics	58,000	48,000	68,000	60,000	52,000	62,000	39,000	45,000	42,000	68,000
Physical/related sciences	52,000	45,000	55,000	56,000	54,000	53,000	62,000	49,000	50,000	55,000
Chemistry, except biochemistry	52,000	64,000	52,000	55,000	60,000	52,000	46,000	46,000	62,000	50,000
Earth/atmospheric/ocean sciences	50,000	40,000	49,000	56,000	53,000	62,000	S	50,000	50,000	50,000
Physics/astronomy	69,000	44,000	78,000	72,000	56,000	66,000	S	94,000	75,000	75,000
Other physical sciences	45,000	S	S	S	S	25,000	S	S	S	43,000
Social/related sciences	45,000	49,000	50,000	44,000	38,000	43,000	38,000	40,000	40,000	49,000
Economics	60,000	70,000	70,000	56,000	50,000	60,000	50,000	60,000	50,000	60,000
Political/related sciences	53,000	55,000	56,000	48,000	61,000	50,000	60,000	45,000	44,000	59,000
Psychology	39,000	40,000	42,000	40,000	32,000	36,000	37,000	34,000	40,000	46,000
Sociology/anthropology	40,000	40,000	40,000	42,000	32,000	40,000	31,000	31,000	38,000	44,000
Other social sciences	40,000	80,000	42,000	40,000	37,000	40,000	S	40,000	35,000	45,000
Engineering	71,000	75,000	70,000	70,000	67,000	70,000	70,000	75,000	70,000	76,000
Aerospace/aeronautical/astronautical engineering	72,000	95,000	60,000	61,000	65,000	78,000	S	65,000	75,000	72,000
Chemical engineering	75,000	75,000	80,000	74,000	70,000	66,000	90,000	80,000	83,000	78,000
Civil/architectural engineering	67,000	70,000	65,000	67,000	70,000	65,000	58,000	67,000	62,000	75,000
Electrical/computer engineering	75,000	83,000	75,000	70,000	65,000	75,000	67,000	75,000	78,000	80,000
Industrial engineering	70,000	70,000	69,000	70,000	64,000	75,000	87,000	55,000	62,000	70,000
Mechanical engineering	73,000	72,000	69,000	70,000	68,000	70,000	74,000	84,000	72,000	75,000
Other engineering	64,000	55,000	70,000	65,000	60,000	60,000	78,000	65,000	47,000	70,000
S&E-related fields	52,000	53,000	55,000	50,000	50,000	50,000	45,000	51,000	54,000	59,000
Health	50,000	55,000	55,000	50,000	49,000	50,000	46,000	51,000	50,000	59,000

TABLE 24. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Science/mathematics teacher education	40,000	S	49,000	46,000	35,000	36,000	S	42,000	S	30,000
Technology/technical fields	62,000	60,000	70,000	60,000	55,000	65,000	46,000	65,000	65,000	70,000
Other S&E-related fields	60,000	52,000	55,000	55,000	65,000	60,000	S	72,000	67,000	62,000
Non-S&E fields	51,000	57,000	60,000	52,000	50,000	50,000	40,000	44,000	42,000	59,000
Arts/humanities	53,000	51,000	70,000	50,000	50,000	50,000	S	48,000	40,000	60,000
Education, except science/mathematics teacher education	40,000	55,000	50,000	40,000	34,000	40,000	33,000	40,000	41,000	45,000
Management/administration	62,000	63,000	70,000	61,000	65,000	60,000	45,000	61,000	50,000	68,000
Sales/marketing	55,000	S	65,000	65,000	S	38,000	S	S	S	S
Social services/related	43,000	S	S	S	S	36,000	S	S	S	45,000
Other non-S&E fields	48,000	50,000	47,000	50,000	40,000	45,000	S	39,000	45,000	58,000
Master's degrees	63,000	67,000	65,000	62,000	57,000	63,000	50,000	60,000	61,000	70,000
S&E fields	67,000	73,000	69,000	66,000	56,000	70,000	56,000	60,000	65,000	70,000
Sciences	60,000	63,000	65,000	60,000	50,000	65,000	50,000	50,000	58,000	63,000
Biological/agricultural/environmental life sciences	49,000	61,000	48,000	50,000	47,000	49,000	50,000	43,000	61,000	48,000
Agricultural sciences	50,000	S	S	60,000	S	49,000	S	S	S	46,000
Biological sciences	50,000	61,000	48,000	50,000	50,000	48,000	40,000	43,000	47,000	50,000
Environmental life sciences	45,000	S	S	S	S	60,000	S	S	S	30,000
Computer/mathematical sciences	78,000	80,000	80,000	72,000	70,000	80,000	70,000	68,000	70,000	85,000
Computer/information sciences	80,000	85,000	85,000	75,000	70,000	82,000	70,000	68,000	70,000	85,000
Mathematics/statistics	70,000	65,000	75,000	69,000	60,000	70,000	70,000	70,000	73,000	75,000
Physical/related sciences	64,000	62,000	69,000	65,000	65,000	65,000	82,000	60,000	62,000	60,000
Chemistry, except biochemistry	60,000	60,000	70,000	65,000	S	55,000	S	45,000	S	58,000
Earth/atmospheric/ocean sciences	64,000	62,000	S	60,000	S	68,000	S	66,000	58,000	70,000
Physics/astronomy	70,000	65,000	100,000	80,000	S	90,000	S	60,000	S	55,000
Other physical sciences	65,000	S	S	S	S	S	S	S	S	S
Social/related sciences	50,000	56,000	54,000	52,000	45,000	56,000	50,000	44,000	47,000	52,000
Economics	73,000	94,000	75,000	67,000	S	60,000	S	S	S	90,000
Political/related sciences	70,000	80,000	57,000	44,000	S	80,000	S	50,000	S	67,000
Psychology	48,000	45,000	51,000	55,000	42,000	43,000	47,000	43,000	45,000	50,000
Sociology/anthropology	43,000	S	30,000	38,000	S	46,000	S	S	65,000	56,000
Other social sciences	52,000	S	65,000	60,000	S	55,000	S	40,000	S	50,000
Engineering	80,000	88,000	77,000	78,000	75,000	81,000	74,000	82,000	80,000	89,000
Aerospace/aeronautical/astronautical engineering	80,000	S	S	S	S	86,000	S	S	S	80,000
Chemical engineering	86,000	S	78,000	73,000	S	64,000	S	90,000	S	100,000
Civil/architectural engineering	73,000	68,000	74,000	75,000	70,000	80,000	70,000	70,000	60,000	75,000
Electrical/computer engineering	90,000	105,000	85,000	80,000	84,000	89,000	70,000	85,000	92,000	95,000

TABLE 24. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Industrial engineering	80,000	S	78,000	85,000	S	90,000	78,000	92,000	S	68,000
Mechanical engineering	80,000	85,000	75,000	78,000	70,000	75,000	S	83,000	75,000	85,000
Other engineering	75,000	67,000	69,000	78,000	74,000	78,000	78,000	80,000	69,000	80,000
S&E-related fields	57,000	58,000	62,000	55,000	60,000	54,000	52,000	54,000	50,000	64,000
Health	58,000	50,000	63,000	55,000	62,000	55,000	60,000	58,000	55,000	61,000
Science/mathematics teacher education	50,000	57,000	60,000	52,000	43,000	50,000	40,000	41,000	S	52,000
Technology/technical fields	73,000	S	70,000	68,000	S	68,000	S	89,000	S	89,000
Other S&E-related fields	60,000	S	57,000	55,000	S	58,000	S	S	S	80,000
Non-S&E fields	63,000	67,000	66,000	62,000	57,000	62,000	50,000	60,000	63,000	70,000
Arts/humanities	57,000	S	63,000	50,000	S	52,000	S	50,000	S	60,000
Education, except science/mathematics teacher education	50,000	52,000	50,000	53,000	42,000	48,000	41,000	45,000	43,000	55,000
Management/administration	84,000	86,000	89,000	85,000	85,000	81,000	78,000	80,000	78,000	90,000
Sales/marketing	89,000	83,000	80,000	63,000	S	80,000	S	S	S	110,000
Social services/related	47,000	45,000	52,000	45,000	39,000	41,000	42,000	45,000	58,000	48,000
Other non-S&E fields	60,000	69,000	70,000	49,000	43,000	62,000	S	47,000	65,000	70,000
Doctorate degrees	77,000	82,000	82,000	73,000	66,000	75,000	70,000	72,000	74,000	84,000
S&E fields	80,000	82,000	82,000	75,000	70,000	79,000	73,000	75,000	75,000	87,000
Sciences	75,000	80,000	80,000	71,000	68,000	75,000	71,000	72,000	70,000	83,000
Biological/agricultural/environmental life sciences	72,000	75,000	73,000	73,000	70,000	72,000	70,000	70,000	68,000	75,000
Agricultural sciences	72,000	S	72,000	74,000	80,000	75,000	68,000	77,000	61,000	68,000
Biological sciences	72,000	75,000	73,000	74,000	67,000	70,000	71,000	70,000	70,000	77,000
Environmental life sciences	72,000	S	S	S	S	85,000	S	75,000	74,000	72,000
Computer/mathematical sciences	80,000	80,000	83,000	71,000	70,000	80,000	65,000	78,000	81,000	98,000
Computer/information sciences	95,000	106,000	115,000	66,000	S	94,000	S	86,000	90,000	108,000
Mathematics/statistics	74,000	79,000	71,000	73,000	66,000	76,000	65,000	64,000	70,000	80,000
Physical/related sciences	85,000	90,000	87,000	76,000	71,000	84,000	73,000	83,000	81,000	92,000
Chemistry, except biochemistry	85,000	92,000	88,000	84,000	76,000	83,000	73,000	83,000	81,000	87,000
Earth/atmospheric/ocean sciences	75,000	75,000	70,000	64,000	56,000	79,000	59,000	85,000	73,000	85,000
Physics/astronomy	89,000	96,000	92,000	72,000	71,000	90,000	80,000	82,000	90,000	100,000
Other physical sciences	70,000	S	S	S	S	S	S	S	S	S
Social/related sciences	71,000	75,000	75,000	67,000	61,000	74,000	70,000	65,000	62,000	78,000
Economics	95,000	85,000	101,000	80,000	72,000	104,000	100,000	83,000	75,000	100,000
Political/related sciences	63,000	77,000	55,000	65,000	57,000	66,000	S	53,000	55,000	80,000
Psychology	71,000	75,000	80,000	66,000	61,000	72,000	75,000	68,000	62,000	77,000
Sociology/anthropology	62,000	60,000	70,000	64,000	56,000	62,000	57,000	48,000	62,000	65,000
Other social sciences	68,000	78,000	70,000	66,000	55,000	65,000	S	65,000	55,000	76,000

TABLE 24. Median annual salaries of U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Engineering	94,000	95,000	100,000	87,000	80,000	90,000	86,000	86,000	95,000	100,000
Aerospace/aeronautical/astronautical engineering	85,000	S	S	85,000	S	86,000	S	S	S	108,000
Chemical engineering	95,000	93,000	102,000	94,000	65,000	100,000	86,000	91,000	91,000	99,000
Civil/architectural engineering	81,000	100,000	78,000	89,000	S	76,000	S	90,000	81,000	85,000
Electrical/computer engineering	100,000	100,000	105,000	92,000	100,000	100,000	100,000	100,000	95,000	105,000
Industrial engineering	84,000	S	S	84,000	S	76,000	S	84,000	S	95,000
Mechanical engineering	90,000	97,000	86,000	86,000	95,000	89,000	77,000	85,000	104,000	99,000
Other engineering	90,000	90,000	100,000	84,000	75,000	90,000	84,000	85,000	89,000	100,000
S&E-related fields	72,000	90,000	72,000	70,000	69,000	69,000	88,000	92,000	69,000	70,000
Health	72,000	74,000	72,000	70,000	72,000	79,000	88,000	65,000	70,000	56,000
Science/mathematics teacher education	61,000	S	S	S	S	S	S	S	S	S
Technology/technical fields	100,000	S	S	S	S	S	S	S	S	S
Other S&E-related fields	S	S	S	S	S	S	S	S	S	S
Non-S&E fields	65,000	77,000	95,000	63,000	60,000	62,000	54,000	55,000	63,000	68,000
Arts/humanities	62,000	S	S	S	S	S	S	S	S	S
Education, except science/mathematics teacher education	65,000	S	98,000	76,000	S	60,000	S	54,000	S	67,000
Management/administration	85,000	S	S	S	S	90,000	S	S	S	S
Sales/marketing	S	S	S	S	S	S	S	S	S	S
Social services/related	55,000	S	S	S	S	58,000	S	S	S	S
Other non-S&E fields	71,000	S	S	S	S	60,000	S	S	S	S

S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. See http://sestat.nsf.gov/docs/location.html for details on states included in each division. Salaries are for principal job and rounded to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 25. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
All degree levels and occupations[a]	60,000	66,000	70,000	56,000	50,000	45,000	50,000	43,000	57,000	70,000	50,000
S&E occupations	70,000	73,000	75,000	58,000	59,000	50,000	50,000	50,000	63,000	74,000	53,000
Scientists	65,000	72,000	73,000	56,000	55,000	49,000	49,000	50,000	57,000	70,000	50,000
Biological/agricultural/other life scientists	50,000	60,000	63,000	45,000	51,000	43,000	42,000	44,000	50,000	60,000	45,000
Agricultural/food scientists	48,000	50,000	50,000	S	S	37,000	37,000	S	46,000	60,000	40,000
Biological/medical scientists	50,000	65,000	65,000	60,000	55,000	40,000	40,000	S	51,000	61,000	45,000
Environmental life scientists	48,000	50,000	63,000	S	S	42,000	42,000	S	50,000	55,000	46,000
Postsecondary teachers-life/related sciences	55,000	S	S	S	S	55,000	57,000	44,000	S	S	S
Computer/mathematical scientists	70,000	74,000	75,000	50,000	60,000	50,000	50,000	45,000	62,000	72,000	53,000
Computer/information scientists	70,000	74,000	75,000	50,000	60,000	49,000	49,000	45,000	62,000	71,000	54,000
Mathematical scientists	73,000	79,000	80,000	S	45,000	56,000	60,000	S	65,000	80,000	50,000
Postsecondary teachers-computer/mathematical sciences	51,000	S	S	S	S	52,000	54,000	45,000	S	S	S
Physical/related scientists	60,000	65,000	65,000	59,000	80,000	48,000	48,000	52,000	58,000	76,000	46,000
Chemists, except biochemists	60,000	65,000	65,000	S	76,000	28,000	28,000	S	60,000	80,000	47,000
Earth/atmospheric/ocean scientists	64,000	70,000	70,000	60,000	67,000	45,000	45,000	S	60,000	72,000	50,000
Physicists/astronomers	80,000	93,000	92,000	S	96,000	49,000	49,000	S	91,000	94,000	S
Postsecondary teachers-physical/related sciences	54,000	S	S	S	S	55,000	55,000	52,000	S	S	S
Other physical/related scientists	48,000	52,000	52,000	S	S	40,000	40,000	S	46,000	75,000	45,000
Social/related scientists	56,000	60,000	69,000	60,000	46,000	54,000	54,000	54,000	55,000	80,000	47,000
Economists	87,000	90,000	100,000	S	73,000	72,000	72,000	S	81,000	89,000	65,000
Political/related scientists	43,000	43,000	S	S	S	46,000	46,000	S	40,000	S	S
Postsecondary teachers-social/related sciences	56,000	S	S	S	S	56,000	59,000	48,000	S	S	S
Psychologists	54,000	57,000	50,000	68,000	45,000	53,000	39,000	56,000	53,000	80,000	48,000
Sociologists/anthropologists	50,000	50,000	44,000	S	62,000	47,000	47,000	S	58,000	68,000	40,000
Other social/related scientists	55,000	60,000	70,000	S	45,000	36,000	36,000	S	51,000	78,000	48,000
Engineers	74,000	75,000	75,000	60,000	80,000	63,000	65,000	54,000	71,000	80,000	63,000
Aerospace/aeronautical/astronautical engineers	82,000	81,000	81,000	S	105,000	78,000	78,000	S	89,000	89,000	S
Chemical engineers	78,000	80,000	80,000	S	S	24,000	24,000	S	67,000	67,000	S
Civil/architectural/sanitary engineers	68,000	69,000	69,000	70,000	S	53,000	53,000	S	67,000	79,000	64,000
Electrical/computer hardware engineers	80,000	80,000	80,000	50,000	90,000	60,000	60,000	S	79,000	80,000	70,000
Industrial engineers	65,000	64,000	65,000	S	S	S	S	S	70,000	70,000	S
Mechanical engineers	72,000	72,000	72,000	65,000	79,000	67,000	67,000	S	78,000	80,000	74,000
Postsecondary teachers-engineering	72,000	S	S	S	S	72,000	76,000	50,000	S	S	S
Other engineers	72,000	75,000	75,000	56,000	80,000	40,000	40,000	S	65,000	75,000	54,000
S&E-related occupations	57,000	65,000	70,000	80,000	55,000	45,000	53,000	42,000	57,000	65,000	52,000

TABLE 25. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Health-related occupations	60,000	63,000	70,000	95,000	52,000	50,000	53,000	43,000	55,000	64,000	49,000
S&E managers	92,000	96,000	100,000	90,000	83,000	80,000	80,000	S	82,000	92,000	75,000
S&E precollege teachers	42,000	S	S	S	S	42,000	S	42,000	S	S	S
S&E technicians/technologists	57,000	60,000	60,000	65,000	50,000	40,000	40,000	S	52,000	58,000	48,000
Other S&E-related occupations	60,000	60,000	63,000	50,000	S	S	S	S	60,000	S	57,000
Non-S&E occupations	54,000	60,000	65,000	44,000	40,000	45,000	46,000	44,000	53,000	65,000	49,000
Art/humanities/related occupations	50,000	50,000	55,000	40,000	47,000	40,000	40,000	S	40,000	50,000	34,000
Management-related occupations	64,000	65,000	67,000	50,000	52,000	46,000	46,000	50,000	62,000	71,000	56,000
Non-S&E managers	100,000	103,000	105,000	100,000	85,000	78,000	89,000	75,000	90,000	105,000	78,000
Non-S&E postsecondary teachers	50,000	S	S	S	S	50,000	51,000	48,000	S	S	S
Non-S&E precollege/other teachers	40,000	23,000	S	S	S	40,000	S	40,000	S	S	S
Sales/marketing occupations	60,000	60,000	62,000	39,000	42,000	S	S	S	67,000	S	S
Social services/related occupations	39,000	35,000	39,000	40,000	35,000	43,000	34,000	46,000	40,000	52,000	39,000
Other non-S&E occupations	45,000	43,000	45,000	44,000	34,000	36,000	35,000	36,000	51,000	60,000	49,000
Bachelor's degrees, all occupations	54,000	60,000	62,000	40,000	45,000	38,000	42,000	36,000	51,000	62,000	47,000
S&E occupations	65,000	70,000	70,000	52,000	53,000	37,000	36,000	40,000	60,000	70,000	51,000
Scientists	62,000	68,000	70,000	50,000	50,000	36,000	36,000	39,000	53,000	65,000	47,000
Biological/agricultural/other life scientists	42,000	48,000	49,000	S	44,000	29,000	29,000	S	48,000	60,000	44,000
Agricultural/food scientists	46,000	46,000	46,000	S	S	S	S	S	46,000	S	S
Biological/medical scientists	40,000	48,000	49,000	S	45,000	29,000	29,000	S	46,000	58,000	44,000
Environmental life scientists	50,000	50,000	61,000	S	S	S	S	S	53,000	57,000	41,000
Postsecondary teachers-life/related sciences	31,000	S	S	S	S	30,000	24,000	S	S	S	S
Computer/mathematical scientists	68,000	70,000	70,000	50,000	56,000	45,000	49,000	38,000	60,000	69,000	52,000
Computer/information scientists	69,000	70,000	70,000	50,000	56,000	47,000	49,000	39,000	60,000	67,000	53,000
Mathematical scientists	60,000	63,000	73,000	S	S	S	S	S	56,000	85,000	S
Postsecondary teachers-computer/mathematical sciences	38,000	S	S	S	S	38,000	33,000	38,000	S	S	S
Physical/related scientists	47,000	52,000	52,000	S	S	30,000	28,000	S	46,000	65,000	45,000
Chemists, except biochemists	50,000	50,000	51,000	S	S	20,000	20,000	S	50,000	70,000	46,000
Earth/atmospheric/ocean scientists	54,000	60,000	60,000	S	S	43,000	43,000	S	50,000	60,000	47,000
Physicists/astronomers	50,000	S	S	S	S	25,000	25,000	S	S	S	S
Postsecondary teachers-physical/related sciences	25,000	S	S	S	S	31,000	24,000	S	S	S	S
Other physical/related scientists	40,000	48,000	48,000	S	S	S	S	S	42,000	S	40,000
Social/related scientists	45,000	50,000	58,000	S	44,000	35,000	31,000	S	43,000	70,000	43,000
Economists	60,000	60,000	S	S	S	S	S	S	62,000	S	S
Political/related scientists	40,000	S	S	S	S	S	S	S	S	S	S

TABLE 25. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Postsecondary teachers-social/related sciences	S	S	S	S	S	S	S	S	S	S	S
Psychologists	31,000	S	S	S	S	S	S	S	S	S	S
Sociologists/anthropologists	S	S	S	S	S	S	S	S	S	S	S
Other social/related scientists	50,000	52,000	59,000	S	44,000	S	S	S	44,000	S	44,000
Engineers	70,000	70,000	70,000	60,000	78,000	45,000	45,000	S	68,000	76,000	60,000
Aerospace/aeronautical/astronautical engineers	81,000	81,000	81,000	S	S	S	S	S	85,000	85,000	S
Chemical engineers	72,000	73,000	75,000	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	65,000	66,000	66,000	68,000	S	S	S	S	65,000	78,000	62,000
Electrical/computer hardware engineers	75,000	75,000	75,000	50,000	86,000	62,000	63,000	S	77,000	79,000	65,000
Industrial engineers	62,000	62,000	62,000	S	S	S	S	S	70,000	S	S
Mechanical engineers	70,000	70,000	70,000	68,000	S	72,000	72,000	S	72,000	70,000	74,000
Postsecondary teachers-engineering	38,000	S	S	S	S	39,000	S	S	S	S	S
Other engineers	70,000	70,000	70,000	62,000	S	25,000	25,000	S	61,000	73,000	50,000
S&E-related occupations	50,000	55,000	58,000	52,000	50,000	41,000	48,000	39,000	50,000	58,000	48,000
Health-related occupations	50,000	50,000	50,000	50,000	50,000	47,000	48,000	40,000	49,000	57,000	45,000
S&E managers	87,000	92,000	95,000	S	80,000	70,000	70,000	S	73,000	89,000	65,000
S&E precollege teachers	38,000	S	S	S	S	38,000	S	38,000	S	S	S
S&E technicians/technologists	55,000	57,000	58,000	62,000	50,000	40,000	40,000	S	51,000	58,000	48,000
Other S&E-related occupations	60,000	60,000	62,000	46,000	S	S	S	S	60,000	S	S
Non-S&E occupations	48,000	50,000	55,000	40,000	35,000	33,000	36,000	32,000	47,000	59,000	42,000
Art/humanities/related occupations	50,000	50,000	52,000	42,000	49,000	S	S	S	S	S	S
Management-related occupations	57,000	60,000	60,000	50,000	44,000	43,000	44,000	S	57,000	67,000	50,000
Non-S&E managers	95,000	100,000	100,000	S	70,000	55,000	S	53,000	73,000	98,000	66,000
Non-S&E postsecondary teachers	43,000	S	S	S	S	42,000	42,000	S	S	S	S
Non-S&E precollege/other teachers	31,000	S	S	S	S	32,000	S	32,000	S	S	S
Sales/marketing occupations	55,000	55,000	58,000	39,000	40,000	S	S	S	S	S	S
Social services/related occupations	31,000	30,000	28,000	S	30,000	30,000	30,000	35,000	34,000	S	35,000
Other non-S&E occupations	40,000	36,000	39,000	35,000	30,000	30,000	32,000	29,000	45,000	50,000	43,000
Master's degrees, all occupations	63,000	75,000	80,000	50,000	52,000	49,000	45,000	50,000	63,000	75,000	55,000
S&E occupations	73,000	80,000	80,000	50,000	58,000	45,000	40,000	54,000	68,000	78,000	56,000
Scientists	70,000	77,000	80,000	50,000	53,000	45,000	39,000	53,000	60,000	74,000	51,000
Biological/agricultural/other life scientists	49,000	65,000	69,000	S	58,000	38,000	37,000	44,000	48,000	54,000	48,000
Agricultural/food scientists	47,000	60,000	65,000	S	S	37,000	37,000	S	S	S	S
Biological/medical scientists	54,000	70,000	70,000	S	78,000	38,000	38,000	S	51,000	61,000	48,000
Environmental life scientists	42,000	S	S	S	S	S	S	S	42,000	S	S
Postsecondary teachers-life/related sciences	40,000	S	S	S	S	40,000	35,000	44,000	S	S	S

TABLE 25. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Computer/mathematical scientists	77,000	80,000	81,000	50,000	64,000	49,000	47,000	52,000	69,000	80,000	57,000
Computer/information scientists	80,000	80,000	81,000	50,000	64,000	50,000	49,000	57,000	70,000	80,000	57,000
Mathematical scientists	72,000	78,000	80,000	S	S	46,000	40,000	S	68,000	70,000	S
Postsecondary teachers-computer/mathematical sciences	45,000	S	S	S	S	45,000	42,000	52,000	S	S	S
Physical/related scientists	66,000	75,000	75,000	S	S	42,000	28,000	52,000	65,000	73,000	55,000
Chemists, except biochemists	66,000	69,000	70,000	S	S	S	S	S	56,000	S	S
Earth/atmospheric/ocean scientists	75,000	75,000	75,000	S	S	38,000	38,000	S	65,000	73,000	51,000
Physicists/astronomers	68,000	90,000	93,000	S	S	20,000	20,000	S	S	S	S
Postsecondary teachers-physical/related sciences	45,000	S	S	S	S	45,000	43,000	52,000	S	S	S
Other physical/related scientists	65,000	56,000	52,000	S	S	S	S	S	66,000	S	56,000
Social/related scientists	53,000	57,000	75,000	50,000	45,000	49,000	35,000	54,000	57,000	81,000	48,000
Economists	89,000	100,000	125,000	S	S	S	S	S	81,000	89,000	S
Political/related scientists	S	S	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	44,000	S	S	S	S	43,000	38,000	48,000	S	S	S
Psychologists	48,000	44,000	43,000	55,000	40,000	53,000	25,000	55,000	44,000	S	43,000
Sociologists/anthropologists	50,000	S	S	S	S	S	S	S	S	S	S
Other social/related scientists	65,000	75,000	75,000	S	S	S	S	S	56,000	S	54,000
Engineers	80,000	80,000	80,000	60,000	88,000	47,000	40,000	S	76,000	84,000	68,000
Aerospace/aeronautical/astronautical engineers	82,000	80,000	80,000	S	S	S	S	S	93,000	93,000	S
Chemical engineers	82,000	82,000	82,000	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	72,000	73,000	73,000	75,000	S	S	S	S	72,000	75,000	68,000
Electrical/computer hardware engineers	86,000	87,000	87,000	S	S	35,000	30,000	S	85,000	88,000	S
Industrial engineers	72,000	72,000	72,000	S	S	S	S	S	S	S	S
Mechanical engineers	78,000	78,000	78,000	S	S	S	S	S	88,000	89,000	S
Postsecondary teachers-engineering	65,000	S	S	S	S	65,000	63,000	S	S	S	S
Other engineers	80,000	83,000	84,000	S	S	35,000	26,000	S	70,000	80,000	60,000
S&E-related occupations	56,000	67,000	70,000	70,000	60,000	49,000	60,000	48,000	65,000	72,000	57,000
Health-related occupations	56,000	59,000	60,000	70,000	55,000	50,000	60,000	44,000	58,000	69,000	50,000
S&E managers	95,000	100,000	100,000	S	89,000	80,000	80,000	S	87,000	97,000	84,000
S&E precollege teachers	48,000	S	S	S	S	48,000	S	48,000	S	S	S
S&E technicians/technologists	63,000	70,000	70,000	S	S	42,000	45,000	S	60,000	S	50,000
Other S&E-related occupations	62,000	65,000	61,000	60,000	S	S	S	S	S	S	S
Non-S&E occupations	60,000	70,000	80,000	40,000	45,000	50,000	44,000	51,000	60,000	75,000	52,000
Art/humanities/related occupations	50,000	53,000	69,000	50,000	S	S	S	S	S	S	S
Management-related occupations	75,000	80,000	81,000	45,000	60,000	49,000	46,000	63,000	65,000	77,000	60,000
Non-S&E managers	100,000	115,000	125,000	S	85,000	73,000	68,000	75,000	93,000	110,000	83,000

TABLE 25. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Non-S&E postsecondary teachers	44,000	S	S	S	S	44,000	44,000	47,000	S	S	S
Non-S&E precollege/other teachers	49,000	S	S	S	S	49,000	S	49,000	S	S	S
Sales/marketing occupations	75,000	75,000	80,000	35,000	S	S	S	S	S	S	S
Social services/related occupations	43,000	40,000	45,000	36,000	39,000	46,000	41,000	49,000	45,000	52,000	44,000
Other non-S&E occupations	47,000	44,000	47,000	36,000	42,000	43,000	39,000	53,000	60,000	71,000	48,000
Doctorate degrees, all occupations	77,000	95,000	100,000	80,000	68,000	65,000	65,000	61,000	80,000	89,000	67,000
S&E occupations	75,000	90,000	93,000	90,000	74,000	62,000	63,000	55,000	80,000	85,000	65,000
Scientists	72,000	90,000	92,000	90,000	70,000	60,000	61,000	55,000	76,000	84,000	63,000
Biological/agricultural/other life scientists	67,000	86,000	90,000	80,000	60,000	57,000	58,000	52,000	72,000	75,000	59,000
Agricultural/food scientists	72,000	80,000	80,000	S	S	65,000	65,000	S	75,000	75,000	S
Biological/medical scientists	67,000	88,000	92,000	85,000	60,000	50,000	50,000	S	72,000	75,000	59,000
Environmental life scientists	63,000	S	S	S	S	S	S	S	73,000	81,000	S
Postsecondary teachers-life/related sciences	66,000	S	S	S	S	65,000	67,000	52,000	S	S	S
Computer/mathematical scientists	79,000	93,000	94,000	67,000	93,000	63,000	64,000	45,000	76,000	89,000	72,000
Computer/information scientists	87,000	92,000	94,000	67,000	88,000	62,000	63,000	S	72,000	89,000	72,000
Mathematical scientists	88,000	100,000	100,000	S	93,000	70,000	70,000	S	85,000	90,000	S
Postsecondary teachers-computer/mathematical sciences	62,000	S	S	S	S	62,000	63,000	45,000	S	S	S
Physical/related scientists	79,000	90,000	90,000	100,000	89,000	63,000	63,000	54,000	91,000	95,000	61,000
Chemists, except biochemists	85,000	88,000	88,000	S	84,000	55,000	55,000	S	83,000	89,000	66,000
Earth/atmospheric/ocean scientists	80,000	86,000	86,000	S	S	63,000	63,000	S	87,000	99,000	S
Physicists/astronomers	90,000	100,000	100,000	S	100,000	62,000	61,000	S	100,000	100,000	S
Postsecondary teachers-physical/related sciences	64,000	S	S	S	S	64,000	64,000	54,000	S	S	S
Other physical/related scientists	80,000	93,000	100,000	S	S	S	S	S	82,000	S	S
Social/related scientists	67,000	80,000	89,000	95,000	65,000	62,000	62,000	60,000	74,000	85,000	65,000
Economists	105,000	130,000	136,000	S	101,000	80,000	77,000	S	95,000	100,000	S
Political/related scientists	75,000	S	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	61,000	S	S	S	S	61,000	61,000	53,000	S	S	S
Psychologists	70,000	80,000	76,000	95,000	61,000	62,000	60,000	63,000	71,000	85,000	67,000
Sociologists/anthropologists	63,000	62,000	S	S	62,000	62,000	63,000	S	70,000	72,000	S
Other social/related scientists	70,000	80,000	74,000	S	80,000	68,000	62,000	S	70,000	74,000	S
Engineers	90,000	95,000	95,000	140,000	102,000	80,000	80,000	S	88,000	90,000	75,000
Aerospace/aeronautical/astronautical engineers	96,000	98,000	96,000	S	S	S	S	S	90,000	90,000	S
Chemical engineers	90,000	94,000	94,000	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	78,000	80,000	78,000	S	S	S	S	S	80,000	S	75,000
Electrical/computer hardware engineers	102,000	104,000	103,000	S	S	85,000	85,000	S	93,000	90,000	S

TABLE 25. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Industrial engineers	73,000	60,000	50,000	S	S	S	S	S	S	S	S
Mechanical engineers	90,000	90,000	90,000	S	S	72,000	75,000	S	100,000	100,000	S
Postsecondary teachers-engineering	81,000	S	S	S	S	81,000	81,000	S	S	S	S
Other engineers	85,000	90,000	90,000	140,000	S	68,000	68,000	S	85,000	90,000	S
S&E-related occupations	80,000	100,000	106,000	100,000	68,000	60,000	70,000	53,000	80,000	108,000	72,000
Health-related occupations	72,000	82,000	100,000	100,000	50,000	69,000	69,000	S	72,000	100,000	72,000
S&E managers	120,000	125,000	125,000	S	110,000	110,000	110,000	S	103,000	115,000	72,000
S&E precollege teachers	52,000	S	S	S	S	51,000	S	50,000	S	S	S
S&E technicians/technologists	62,000	75,000	75,000	S	S	39,000	38,000	S	S	S	S
Other S&E-related occupations	90,000	S	S	S	S	S	S	S	S	S	S
Non-S&E occupations	85,000	100,000	120,000	52,000	66,000	73,000	75,000	70,000	85,000	95,000	65,000
Art/humanities/related occupations	70,000	73,000	86,000	50,000	55,000	47,000	47,000	S	S	S	S
Management-related occupations	87,000	97,000	100,000	100,000	70,000	87,000	87,000	S	57,000	83,000	50,000
Non-S&E managers	115,000	143,000	150,000	S	95,000	105,000	110,000	102,000	105,000	125,000	85,000
Non-S&E postsecondary teachers	65,000	S	S	S	S	65,000	65,000	53,000	S	S	S
Non-S&E precollege/other teachers	61,000	S	S	S	S	61,000	S	61,000	S	S	S
Sales/marketing occupations	125,000	130,000	150,000	75,000	S	S	S	S	S	S	S
Social services/related occupations	51,000	50,000	S	S	50,000	51,000	58,000	46,000	S	S	S
Other non-S&E occupations	56,000	61,000	75,000	50,000	S	54,000	45,000	S	56,000	80,000	56,000

S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification, and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Salaries are for principal job and rounded to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
All degree levels and occupations[a]	60,000	66,000	50,000	43,000	57,000
U.S. citizen	60,000	66,000	50,000	43,000	57,000
Native-born	60,000	65,000	50,000	43,000	57,000
Naturalized	64,000	67,000	62,000	42,000	58,000
Non-U.S. citizen	60,000	66,000	44,000	39,000	50,000
Permanent resident	60,000	67,000	50,000	40,000	48,000
Temporary resident	59,000	65,000	39,000	38,000	50,000
S&E occupations	70,000	73,000	50,000	50,000	63,000
U.S. citizen	69,000	72,000	50,000	50,000	63,000
Native-born	68,000	72,000	49,000	50,000	62,000
Naturalized	73,000	75,000	65,000	54,000	65,000
Non-U.S. citizen	70,000	75,000	43,000	50,000	53,000
Permanent resident	75,000	76,000	55,000	55,000	57,000
Temporary resident	62,000	70,000	37,000	S	48,000
Scientists	65,000	72,000	49,000	50,000	57,000
U.S. citizen	65,000	70,000	50,000	50,000	58,000
Native-born	65,000	70,000	48,000	50,000	57,000
Naturalized	70,000	75,000	62,000	53,000	65,000
Non-U.S. citizen	70,000	75,000	43,000	50,000	50,000
Permanent resident	74,000	76,000	53,000	55,000	56,000
Temporary resident	60,000	70,000	38,000	S	48,000
Biological/agricultural/other life scientists	50,000	60,000	42,000	44,000	50,000
U.S. citizen	50,000	60,000	44,000	44,000	51,000
Native-born	50,000	57,000	42,000	45,000	50,000
Naturalized	62,000	70,000	53,000	S	61,000
Non-U.S. citizen	44,000	65,000	41,000	S	43,000
Permanent resident	57,000	72,000	50,000	S	60,000
Temporary resident	38,000	51,000	36,000	S	40,000
Agricultural/food scientists	48,000	50,000	37,000	S	46,000
U.S. citizen	50,000	50,000	39,000	S	46,000
Native-born	50,000	50,000	39,000	S	46,000
Naturalized	62,000	68,000	S	S	S
Non-U.S. citizen	35,000	48,000	28,000	S	S
Permanent resident	47,000	S	47,000	S	S
Temporary resident	17,000	S	S	S	S
Biological/medical scientists	50,000	65,000	40,000	S	51,000
U.S. citizen	51,000	63,000	40,000	S	52,000
Native-born	50,000	60,000	37,000	S	51,000
Naturalized	62,000	70,000	53,000	S	62,000
Non-U.S. citizen	44,000	71,000	40,000	S	43,000
Permanent resident	58,000	76,000	48,000	S	60,000
Temporary resident	38,000	51,000	36,000	S	40,000
Environmental life scientists	48,000	50,000	42,000	S	50,000
U.S. citizen	48,000	51,000	S	S	50,000
Native-born	50,000	51,000	S	S	50,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-life/related sciences	55,000	S	57,000	44,000	S
U.S. citizen	54,000	S	57,000	44,000	S
Native-born	52,000	S	56,000	44,000	S
Naturalized	72,000	S	80,000	S	S
Non-U.S. citizen	60,000	S	60,000	S	S
Permanent resident	67,000	S	67,000	S	S
Temporary resident	50,000	S	50,000	S	S
Computer/mathematical scientists	70,000	74,000	50,000	45,000	62,000
U.S. citizen	70,000	74,000	51,000	45,000	63,000
Native-born	70,000	73,000	50,000	45,000	62,000
Naturalized	73,000	75,000	65,000	50,000	65,000
Non-U.S. citizen	74,000	75,000	49,000	51,000	53,000
Permanent resident	76,000	78,000	52,000	S	53,000
Temporary resident	68,000	70,000	45,000	S	S
Computer/information scientists	70,000	74,000	49,000	45,000	62,000
U.S. citizen	70,000	73,000	49,000	45,000	63,000
Native-born	70,000	73,000	49,000	45,000	62,000
Naturalized	75,000	75,000	65,000	S	65,000
Non-U.S. citizen	75,000	75,000	49,000	S	53,000
Permanent resident	77,000	78,000	52,000	S	53,000
Temporary resident	70,000	70,000	38,000	S	S
Mathematical scientists	73,000	79,000	60,000	S	65,000
U.S. citizen	74,000	80,000	61,000	S	65,000
Native-born	75,000	80,000	60,000	S	65,000
Naturalized	70,000	80,000	61,000	S	70,000
Non-U.S. citizen	70,000	75,000	57,000	S	S
Permanent resident	73,000	75,000	S	S	S
Temporary resident	65,000	75,000	S	S	S
Postsecondary teachers-computer/mathematical sciences	51,000	S	54,000	45,000	S
U.S. citizen	52,000	S	55,000	45,000	S
Native-born	50,000	S	54,000	44,000	S
Naturalized	60,000	S	65,000	S	S
Non-U.S. citizen	50,000	S	48,000	S	S
Permanent resident	51,000	S	50,000	S	S
Temporary resident	45,000	S	46,000	S	S
Physical/related scientists	60,000	65,000	48,000	52,000	58,000
U.S. citizen	60,000	65,000	50,000	52,000	60,000
Native-born	60,000	65,000	48,000	52,000	56,000
Naturalized	65,000	65,000	65,000	S	65,000
Non-U.S. citizen	54,000	66,000	42,000	S	48,000
Permanent resident	63,000	65,000	60,000	S	S
Temporary resident	42,000	73,000	34,000	S	S
Chemists, except biochemists	60,000	65,000	28,000	S	60,000
U.S. citizen	60,000	65,000	25,000	S	60,000
Native-born	60,000	65,000	24,000	S	60,000
Naturalized	64,000	65,000	55,000	S	60,000
Non-U.S. citizen	57,000	64,000	30,000	S	S
Permanent resident	60,000	64,000	S	S	S
Temporary resident	43,000	63,000	25,000	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Earth/atmospheric/ocean scientists	64,000	70,000	45,000	S	60,000
U.S. citizen	64,000	70,000	48,000	S	60,000
Native-born	64,000	70,000	45,000	S	60,000
Naturalized	65,000	70,000	S	S	60,000
Non-U.S. citizen	48,000	80,000	38,000	S	S
Permanent resident	72,000	S	S	S	S
Temporary resident	38,000	S	S	S	S
Physicists/astronomers	80,000	93,000	49,000	S	91,000
U.S. citizen	85,000	94,000	50,000	S	92,000
Native-born	85,000	93,000	47,000	S	91,000
Naturalized	86,000	96,000	68,000	S	101,000
Non-U.S. citizen	57,000	90,000	43,000	S	S
Permanent resident	84,000	99,000	53,000	S	S
Temporary resident	48,000	S	40,000	S	S
Postsecondary teachers-physical/related sciences	54,000	S	55,000	52,000	S
U.S. citizen	54,000	S	55,000	52,000	S
Native-born	53,000	S	53,000	52,000	S
Naturalized	63,000	S	68,000	S	S
Non-U.S. citizen	56,000	S	56,000	S	S
Permanent resident	64,000	S	64,000	S	S
Temporary resident	38,000	S	38,000	S	S
Other physical/related scientists	48,000	52,000	40,000	S	46,000
U.S. citizen	49,000	52,000	S	S	46,000
Native-born	48,000	52,000	S	S	46,000
Naturalized	74,000	S	S	S	S
Non-U.S. citizen	44,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Social/related scientists	56,000	60,000	54,000	54,000	55,000
U.S. citizen	56,000	60,000	53,000	54,000	55,000
Native-born	55,000	60,000	52,000	54,000	55,000
Naturalized	68,000	70,000	70,000	57,000	65,000
Non-U.S. citizen	65,000	75,000	61,000	S	S
Permanent resident	63,000	73,000	65,000	S	S
Temporary resident	72,000	75,000	50,000	S	S
Economists	87,000	90,000	72,000	S	81,000
U.S. citizen	86,000	100,000	72,000	S	79,000
Native-born	85,000	90,000	66,000	S	79,000
Naturalized	105,000	S	S	S	S
Non-U.S. citizen	96,000	80,000	S	S	S
Permanent resident	80,000	S	S	S	S
Temporary resident	100,000	110,000	S	S	S
Political/related scientists	43,000	43,000	46,000	S	40,000
U.S. citizen	43,000	43,000	S	S	40,000
Native-born	43,000	43,000	S	S	40,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-social/related sciences	56,000	S	59,000	48,000	S
U.S. citizen	55,000	S	59,000	48,000	S
Native-born	55,000	S	57,000	48,000	S
Naturalized	68,000	S	68,000	S	S
Non-U.S. citizen	61,000	S	62,000	S	S
Permanent resident	64,000	S	65,000	S	S
Temporary resident	50,000	S	50,000	S	S
Psychologists	54,000	57,000	39,000	56,000	53,000
U.S. citizen	54,000	57,000	39,000	56,000	53,000
Native-born	53,000	57,000	39,000	56,000	53,000
Naturalized	65,000	70,000	100,000	57,000	S
Non-U.S. citizen	50,000	50,000	S	S	S
Permanent resident	50,000	45,000	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	50,000	50,000	47,000	S	58,000
U.S. citizen	50,000	50,000	47,000	S	58,000
Native-born	50,000	50,000	45,000	S	58,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	55,000	60,000	36,000	S	51,000
U.S. citizen	55,000	58,000	36,000	S	51,000
Native-born	55,000	58,000	36,000	S	51,000
Naturalized	56,000	60,000	S	S	S
Non-U.S. citizen	75,000	75,000	S	S	S
Permanent resident	68,000	73,000	S	S	S
Temporary resident	S	S	S	S	S
Engineers	74,000	75,000	65,000	54,000	71,000
U.S. citizen	75,000	75,000	70,000	54,000	72,000
Native-born	74,000	75,000	68,000	54,000	72,000
Naturalized	76,000	80,000	78,000	S	67,000
Non-U.S. citizen	73,000	75,000	36,000	S	60,000
Permanent resident	76,000	77,000	70,000	S	63,000
Temporary resident	65,000	72,000	23,000	S	S
Aerospace/aeronautical/astronautical engineers	82,000	81,000	78,000	S	89,000
U.S. citizen	83,000	81,000	78,000	S	89,000
Native-born	83,000	81,000	78,000	S	90,000
Naturalized	80,000	80,000	S	S	80,000
Non-U.S. citizen	76,000	76,000	S	S	S
Permanent resident	80,000	S	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	78,000	80,000	24,000	S	67,000
U.S. citizen	79,000	80,000	24,000	S	67,000
Native-born	77,000	78,000	22,000	S	67,000
Naturalized	86,000	87,000	S	S	S
Non-U.S. citizen	74,000	75,000	S	S	S
Permanent resident	82,000	82,000	S	S	S
Temporary resident	62,000	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Civil/architectural/sanitary engineers	68,000	69,000	53,000	S	67,000
U.S. citizen	69,000	70,000	52,000	S	67,000
Native-born	69,000	69,000	S	S	68,000
Naturalized	69,000	75,000	S	S	65,000
Non-U.S. citizen	58,000	59,000	S	S	58,000
Permanent resident	63,000	65,000	S	S	58,000
Temporary resident	53,000	53,000	S	S	S
Electrical/computer hardware engineers	80,000	80,000	60,000	S	79,000
U.S. citizen	80,000	80,000	68,000	S	79,000
Native-born	80,000	80,000	64,000	S	80,000
Naturalized	80,000	82,000	72,000	S	76,000
Non-U.S. citizen	80,000	80,000	20,000	S	S
Permanent resident	86,000	86,000	S	S	S
Temporary resident	75,000	75,000	20,000	S	S
Industrial engineers	65,000	64,000	S	S	70,000
U.S. citizen	65,000	63,000	S	S	70,000
Native-born	65,000	63,000	S	S	72,000
Naturalized	64,000	62,000	S	S	S
Non-U.S. citizen	70,000	67,000	S	S	S
Permanent resident	75,000	75,000	S	S	S
Temporary resident	62,000	62,000	S	S	S
Mechanical engineers	72,000	72,000	67,000	S	78,000
U.S. citizen	73,000	72,000	72,000	S	78,000
Native-born	72,000	72,000	72,000	S	80,000
Naturalized	74,000	75,000	S	S	73,000
Non-U.S. citizen	68,000	69,000	S	S	S
Permanent resident	72,000	72,000	S	S	S
Temporary resident	60,000	62,000	S	S	S
Postsecondary teachers-engineering	72,000	S	76,000	50,000	S
U.S. citizen	72,000	S	80,000	50,000	S
Native-born	70,000	S	75,000	50,000	S
Naturalized	84,000	S	86,000	S	S
Non-U.S. citizen	64,000	S	65,000	S	S
Permanent resident	70,000	S	70,000	S	S
Temporary resident	50,000	S	50,000	S	S
Other engineers	72,000	75,000	40,000	S	65,000
U.S. citizen	72,000	75,000	44,000	S	65,000
Native-born	72,000	75,000	40,000	S	65,000
Naturalized	71,000	75,000	S	S	61,000
Non-U.S. citizen	72,000	73,000	24,000	S	S
Permanent resident	75,000	76,000	S	S	S
Temporary resident	60,000	62,000	21,000	S	S
S&E-related occupations	57,000	65,000	53,000	42,000	57,000
U.S. citizen	58,000	66,000	54,000	42,000	57,000
Native-born	56,000	65,000	53,000	42,000	56,000
Naturalized	65,000	70,000	60,000	45,000	60,000
Non-U.S. citizen	53,000	55,000	45,000	45,000	57,000
Permanent resident	53,000	55,000	48,000	48,000	57,000
Temporary resident	49,000	55,000	39,000	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Health-related occupations	60,000	63,000	53,000	43,000	55,000
U.S. citizen	60,000	64,000	54,000	43,000	55,000
Native-born	59,000	62,000	52,000	43,000	53,000
Naturalized	67,000	70,000	63,000	S	60,000
Non-U.S. citizen	50,000	50,000	47,000	S	57,000
Permanent resident	50,000	50,000	48,000	S	50,000
Temporary resident	45,000	47,000	42,000	S	S
S&E managers	92,000	96,000	80,000	S	82,000
U.S. citizen	92,000	96,000	80,000	S	82,000
Native-born	92,000	95,000	80,000	S	82,000
Naturalized	100,000	100,000	76,000	S	75,000
Non-U.S. citizen	103,000	103,000	S	S	S
Permanent resident	110,000	110,000	S	S	S
Temporary resident	90,000	90,000	S	S	S
S&E precollege teachers	42,000	S	S	42,000	S
U.S. citizen	42,000	S	S	42,000	S
Native-born	42,000	S	S	42,000	S
Naturalized	46,000	S	S	46,000	S
Non-U.S. citizen	45,000	S	S	45,000	S
Permanent resident	48,000	S	S	48,000	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	57,000	60,000	40,000	S	52,000
U.S. citizen	57,000	60,000	40,000	S	52,000
Native-born	55,000	59,000	40,000	S	52,000
Naturalized	60,000	64,000	47,000	S	60,000
Non-U.S. citizen	60,000	65,000	36,000	S	S
Permanent resident	60,000	67,000	S	S	S
Temporary resident	55,000	63,000	S	S	S
Other S&E-related occupations	60,000	60,000	S	S	60,000
U.S. citizen	60,000	62,000	S	S	60,000
Native-born	62,000	62,000	S	S	60,000
Naturalized	60,000	60,000	S	S	S
Non-U.S. citizen	50,000	50,000	S	S	S
Permanent resident	53,000	53,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	54,000	60,000	46,000	44,000	53,000
U.S. citizen	55,000	60,000	46,000	44,000	53,000
Native-born	55,000	60,000	46,000	44,000	55,000
Naturalized	50,000	52,000	52,000	38,000	45,000
Non-U.S. citizen	46,000	48,000	40,000	35,000	42,000
Permanent resident	45,000	48,000	38,000	37,000	40,000
Temporary resident	48,000	48,000	45,000	S	S
Art/humanities/related occupations	50,000	50,000	40,000	S	40,000
U.S. citizen	50,000	50,000	40,000	S	50,000
Native-born	50,000	50,000	40,000	S	42,000
Naturalized	58,000	55,000	S	S	S
Non-U.S. citizen	40,000	60,000	S	S	S
Permanent resident	40,000	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Management-related occupations	64,000	65,000	46,000	50,000	62,000
U.S. citizen	64,000	65,000	46,000	51,000	62,000
Native-born	65,000	65,000	46,000	49,000	62,000
Naturalized	60,000	60,000	62,000	S	63,000
Non-U.S. citizen	60,000	70,000	S	S	S
Permanent resident	60,000	70,000	S	S	S
Temporary resident	64,000	70,000	S	S	S
Non-S&E managers	100,000	103,000	89,000	75,000	90,000
U.S. citizen	100,000	102,000	89,000	75,000	90,000
Native-born	98,000	100,000	85,000	75,000	90,000
Naturalized	110,000	118,000	118,000	S	82,000
Non-U.S. citizen	109,000	111,000	S	S	S
Permanent resident	120,000	125,000	S	S	S
Temporary resident	90,000	90,000	S	S	S
Non-S&E postsecondary teachers	50,000	S	51,000	48,000	S
U.S. citizen	50,000	S	50,000	48,000	S
Native-born	50,000	S	50,000	48,000	S
Naturalized	52,000	S	64,000	S	S
Non-U.S. citizen	53,000	S	51,000	S	S
Permanent resident	56,000	S	50,000	S	S
Temporary resident	50,000	S	51,000	S	S
Non-S&E precollege/other teachers	40,000	23,000	S	40,000	S
U.S. citizen	40,000	23,000	S	40,000	S
Native-born	40,000	23,000	S	40,000	S
Naturalized	38,000	S	S	38,000	S
Non-U.S. citizen	30,000	S	S	30,000	S
Permanent resident	28,000	S	S	28,000	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	60,000	60,000	S	S	67,000
U.S. citizen	60,000	60,000	S	S	67,000
Native-born	60,000	60,000	S	S	67,000
Naturalized	60,000	60,000	S	S	S
Non-U.S. citizen	60,000	60,000	S	S	S
Permanent resident	60,000	60,000	S	S	S
Temporary resident	55,000	55,000	S	S	S
Social services/related occupations	39,000	35,000	34,000	46,000	40,000
U.S. citizen	39,000	35,000	34,000	46,000	40,000
Native-born	39,000	35,000	33,000	46,000	40,000
Naturalized	40,000	37,000	S	48,000	41,000
Non-U.S. citizen	30,000	30,000	S	S	S
Permanent resident	30,000	30,000	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	45,000	43,000	35,000	36,000	51,000
U.S. citizen	45,000	45,000	35,000	36,000	51,000
Native-born	48,000	45,000	36,000	38,000	52,000
Naturalized	38,000	36,000	S	S	42,000
Non-U.S. citizen	33,000	30,000	S	S	S
Permanent resident	32,000	30,000	S	S	S
Temporary resident	35,000	35,000	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Bachelor's degrees, all occupations	54,000	60,000	42,000	36,000	51,000
U.S. citizen	54,000	60,000	43,000	36,000	52,000
Native-born	54,000	60,000	41,000	36,000	51,000
Naturalized	54,000	56,000	50,000	38,000	52,000
Non-U.S. citizen	50,000	55,000	36,000	33,000	47,000
Permanent resident	50,000	53,000	37,000	32,000	45,000
Temporary resident	55,000	59,000	23,000	S	S
S&E occupations	65,000	70,000	36,000	40,000	60,000
U.S. citizen	65,000	70,000	37,000	39,000	60,000
Native-born	65,000	70,000	36,000	39,000	60,000
Naturalized	65,000	68,000	45,000	S	60,000
Non-U.S. citizen	70,000	72,000	28,000	S	48,000
Permanent resident	70,000	72,000	35,000	S	53,000
Temporary resident	70,000	75,000	20,000	S	S
Scientists	62,000	68,000	36,000	39,000	53,000
U.S. citizen	62,000	67,000	36,000	38,000	53,000
Native-born	61,000	67,000	36,000	38,000	53,000
Naturalized	64,000	66,000	42,000	S	57,000
Non-U.S. citizen	70,000	73,000	30,000	S	48,000
Permanent resident	70,000	73,000	S	S	S
Temporary resident	70,000	74,000	S	S	S
Biological/agricultural/other life scientists	42,000	48,000	29,000	S	48,000
U.S. citizen	44,000	48,000	29,000	S	48,000
Native-born	44,000	48,000	29,000	S	48,000
Naturalized	45,000	50,000	S	S	S
Non-U.S. citizen	28,000	S	28,000	S	S
Permanent resident	34,000	S	S	S	S
Temporary resident	S	S	S	S	S
Agricultural/food scientists	46,000	46,000	S	S	46,000
U.S. citizen	46,000	46,000	S	S	46,000
Native-born	46,000	46,000	S	S	46,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Biological/medical scientists	40,000	48,000	29,000	S	46,000
U.S. citizen	42,000	48,000	29,000	S	48,000
Native-born	42,000	48,000	29,000	S	48,000
Naturalized	48,000	50,000	S	S	S
Non-U.S. citizen	32,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Environmental life scientists	50,000	50,000	S	S	53,000
U.S. citizen	50,000	57,000	S	S	53,000
Native-born	52,000	57,000	S	S	53,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-life/related sciences	31,000	S	24,000	S	S
U.S. citizen	31,000	S	24,000	S	S
Native-born	30,000	S	24,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Computer/mathematical scientists	68,000	70,000	49,000	38,000	60,000
U.S. citizen	68,000	70,000	49,000	38,000	60,000
Native-born	68,000	70,000	48,000	38,000	60,000
Naturalized	67,000	70,000	60,000	S	57,000
Non-U.S. citizen	74,000	75,000	S	S	S
Permanent resident	75,000	75,000	S	S	S
Temporary resident	70,000	74,000	S	S	S
Computer/information scientists	69,000	70,000	49,000	39,000	60,000
U.S. citizen	68,000	70,000	49,000	38,000	60,000
Native-born	68,000	70,000	48,000	39,000	60,000
Naturalized	68,000	70,000	S	S	60,000
Non-U.S. citizen	74,000	75,000	S	S	S
Permanent resident	75,000	75,000	S	S	S
Temporary resident	72,000	74,000	S	S	S
Mathematical scientists	60,000	63,000	S	S	56,000
U.S. citizen	60,000	63,000	S	S	56,000
Native-born	62,000	71,000	S	S	56,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	38,000	S	33,000	38,000	S
U.S. citizen	38,000	S	S	38,000	S
Native-born	38,000	S	S	38,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physical/related scientists	47,000	52,000	28,000	S	46,000
U.S. citizen	48,000	52,000	28,000	S	46,000
Native-born	48,000	52,000	28,000	S	46,000
Naturalized	48,000	48,000	S	S	S
Non-U.S. citizen	35,000	36,000	S	S	S
Permanent resident	36,000	S	S	S	S
Temporary resident	S	S	S	S	S
Chemists, except biochemists	50,000	50,000	20,000	S	50,000
U.S. citizen	50,000	51,000	20,000	S	50,000
Native-born	50,000	51,000	20,000	S	50,000
Naturalized	50,000	50,000	S	S	S
Non-U.S. citizen	39,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Earth/atmospheric/ocean scientists	54,000	60,000	43,000	S	50,000
U.S. citizen	54,000	60,000	43,000	S	50,000
Native-born	54,000	60,000	43,000	S	50,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physicists/astronomers	50,000	S	25,000	S	S
U.S. citizen	50,000	S	25,000	S	S
Native-born	50,000	S	25,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-physical/related sciences	25,000	S	24,000	S	S
U.S. citizen	34,000	S	34,000	S	S
Native-born	34,000	S	34,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other physical/related scientists	40,000	48,000	S	S	42,000
U.S. citizen	40,000	50,000	S	S	42,000
Native-born	40,000	50,000	S	S	42,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Social/related scientists	45,000	50,000	31,000	S	43,000
U.S. citizen	45,000	50,000	31,000	S	43,000
Native-born	45,000	50,000	31,000	S	43,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	52,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Economists	60,000	60,000	S	S	62,000
U.S. citizen	60,000	S	S	S	60,000
Native-born	60,000	S	S	S	62,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Political/related scientists	40,000	S	S	S	S
U.S. citizen	40,000	S	S	S	S
Native-born	40,000	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-social/related sciences	S	S	S	S	S
U.S. citizen	S	S	S	S	S
Native-born	S	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Psychologists	31,000	S	S	S	S
U.S. citizen	31,000	S	S	S	S
Native-born	31,000	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	S	S	S	S	S
U.S. citizen	S	S	S	S	S
Native-born	S	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	50,000	52,000	S	S	44,000
U.S. citizen	50,000	52,000	S	S	44,000
Native-born	50,000	52,000	S	S	44,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Engineers	70,000	70,000	45,000	S	68,000
U.S. citizen	70,000	70,000	50,000	S	69,000
Native-born	70,000	70,000	50,000	S	70,000
Naturalized	70,000	70,000	S	S	64,000
Non-U.S. citizen	68,000	72,000	S	S	S
Permanent resident	65,000	65,000	S	S	S
Temporary resident	75,000	75,000	S	S	S
Aerospace/aeronautical/astronautical engineers	81,000	81,000	S	S	85,000
U.S. citizen	81,000	81,000	S	S	85,000
Native-born	81,000	81,000	S	S	87,000
Naturalized	75,000	74,000	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	72,000	73,000	S	S	S
U.S. citizen	72,000	75,000	S	S	S
Native-born	73,000	76,000	S	S	S
Naturalized	67,000	67,000	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Civil/architectural/sanitary engineers	65,000	66,000	S	S	65,000
U.S. citizen	65,000	67,000	S	S	65,000
Native-born	66,000	67,000	S	S	65,000
Naturalized	64,000	68,000	S	S	62,000
Non-U.S. citizen	53,000	50,000	S	S	S
Permanent resident	51,000	50,000	S	S	S
Temporary resident	S	S	S	S	S
Electrical/computer hardware engineers	75,000	75,000	63,000	S	77,000
U.S. citizen	75,000	75,000	S	S	77,000
Native-born	75,000	75,000	S	S	78,000
Naturalized	75,000	75,000	S	S	76,000
Non-U.S. citizen	75,000	75,000	S	S	S
Permanent resident	72,000	72,000	S	S	S
Temporary resident	75,000	75,000	S	S	S
Industrial engineers	62,000	62,000	S	S	70,000
U.S. citizen	62,000	62,000	S	S	70,000
Native-born	63,000	62,000	S	S	70,000
Naturalized	62,000	62,000	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Mechanical engineers	70,000	70,000	72,000	S	72,000
U.S. citizen	70,000	70,000	72,000	S	72,000
Native-born	70,000	70,000	72,000	S	72,000
Naturalized	70,000	70,000	S	S	S
Non-U.S. citizen	65,000	65,000	S	S	S
Permanent resident	65,000	65,000	S	S	S
Temporary resident	62,000	62,000	S	S	S
Postsecondary teachers-engineering	38,000	S	S	S	S
U.S. citizen	40,000	S	S	S	S
Native-born	40,000	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other engineers	70,000	70,000	25,000	S	61,000
U.S. citizen	70,000	70,000	30,000	S	61,000
Native-born	70,000	70,000	25,000	S	62,000
Naturalized	63,000	68,000	S	S	S
Non-U.S. citizen	60,000	62,000	S	S	S
Permanent resident	65,000	62,000	S	S	S
Temporary resident	S	S	S	S	S
S&E-related occupations	50,000	55,000	48,000	39,000	50,000
U.S. citizen	50,000	55,000	48,000	39,000	50,000
Native-born	50,000	55,000	47,000	38,000	50,000
Naturalized	55,000	55,000	55,000	42,000	54,000
Non-U.S. citizen	45,000	46,000	44,000	37,000	S
Permanent resident	45,000	45,000	40,000	40,000	S
Temporary resident	48,000	48,000	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Health-related occupations	50,000	50,000	48,000	40,000	49,000
U.S. citizen	50,000	50,000	48,000	40,000	48,000
Native-born	49,000	50,000	47,000	40,000	48,000
Naturalized	54,000	54,000	55,000	S	52,000
Non-U.S. citizen	40,000	37,000	44,000	S	S
Permanent resident	37,000	35,000	44,000	S	S
Temporary resident	S	S	S	S	S
S&E managers	87,000	92,000	70,000	S	73,000
U.S. citizen	87,000	92,000	70,000	S	73,000
Native-born	87,000	92,000	S	S	70,000
Naturalized	83,000	95,000	S	S	S
Non-U.S. citizen	124,000	124,000	S	S	S
Permanent resident	125,000	125,000	S	S	S
Temporary resident	S	S	S	S	S
S&E precollege teachers	38,000	S	S	38,000	S
U.S. citizen	38,000	S	S	38,000	S
Native-born	38,000	S	S	38,000	S
Naturalized	42,000	S	S	42,000	S
Non-U.S. citizen	37,000	S	S	37,000	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	55,000	57,000	40,000	S	51,000
U.S. citizen	55,000	57,000	40,000	S	51,000
Native-born	54,000	57,000	39,000	S	52,000
Naturalized	59,000	60,000	S	S	S
Non-U.S. citizen	60,000	65,000	S	S	S
Permanent resident	61,000	65,000	S	S	S
Temporary resident	60,000	62,000	S	S	S
Other S&E-related occupations	60,000	60,000	S	S	60,000
U.S. citizen	60,000	60,000	S	S	60,000
Native-born	60,000	60,000	S	S	S
Naturalized	60,000	60,000	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	48,000	50,000	36,000	32,000	47,000
U.S. citizen	48,000	50,000	36,000	32,000	48,000
Native-born	49,000	52,000	34,000	32,000	49,000
Naturalized	45,000	45,000	45,000	36,000	42,000
Non-U.S. citizen	40,000	40,000	S	S	43,000
Permanent resident	40,000	44,000	S	S	40,000
Temporary resident	36,000	37,000	S	S	S
Art/humanities/related occupations	50,000	50,000	S	S	S
U.S. citizen	50,000	50,000	S	S	S
Native-born	49,000	50,000	S	S	S
Naturalized	60,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Management-related occupations	57,000	60,000	44,000	S	57,000
U.S. citizen	57,000	60,000	44,000	S	57,000
Native-born	59,000	60,000	44,000	S	57,000
Naturalized	50,000	50,000	S	S	S
Non-U.S. citizen	52,000	54,000	S	S	S
Permanent resident	53,000	55,000	S	S	S
Temporary resident	52,000	52,000	S	S	S
Non-S&E managers	95,000	100,000	S	53,000	73,000
U.S. citizen	95,000	100,000	S	53,000	72,000
Native-born	95,000	100,000	S	S	73,000
Naturalized	96,000	100,000	S	S	S
Non-U.S. citizen	109,000	109,000	S	S	S
Permanent resident	109,000	125,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E postsecondary teachers	43,000	S	42,000	S	S
U.S. citizen	43,000	S	42,000	S	S
Native-born	42,000	S	37,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E precollege/other teachers	31,000	S	S	32,000	S
U.S. citizen	32,000	S	S	32,000	S
Native-born	31,000	S	S	32,000	S
Naturalized	36,000	S	S	36,000	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	55,000	55,000	S	S	S
U.S. citizen	55,000	55,000	S	S	S
Native-born	55,000	55,000	S	S	S
Naturalized	60,000	60,000	S	S	S
Non-U.S. citizen	50,000	50,000	S	S	S
Permanent resident	50,000	50,000	S	S	S
Temporary resident	S	S	S	S	S
Social services/related occupations	31,000	30,000	30,000	35,000	34,000
U.S. citizen	32,000	30,000	30,000	35,000	35,000
Native-born	31,000	30,000	30,000	35,000	35,000
Naturalized	34,000	33,000	S	S	36,000
Non-U.S. citizen	29,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	40,000	36,000	32,000	29,000	45,000
U.S. citizen	40,000	37,000	31,000	29,000	45,000
Native-born	40,000	38,000	32,000	29,000	45,000
Naturalized	34,000	32,000	S	S	40,000
Non-U.S. citizen	28,000	26,000	S	S	S
Permanent resident	28,000	25,000	S	S	S
Temporary resident	30,000	28,000	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Master's degrees, all occupations	63,000	75,000	45,000	50,000	63,000
U.S. citizen	63,000	75,000	46,000	50,000	63,000
Native-born	62,000	75,000	46,000	50,000	64,000
Naturalized	70,000	78,000	60,000	50,000	60,000
Non-U.S. citizen	67,000	72,000	34,000	44,000	50,000
Permanent resident	70,000	75,000	38,000	45,000	50,000
Temporary resident	60,000	65,000	28,000	S	S
S&E occupations	73,000	80,000	40,000	54,000	68,000
U.S. citizen	74,000	80,000	40,000	54,000	68,000
Native-born	72,000	80,000	40,000	54,000	68,000
Naturalized	79,000	80,000	49,000	60,000	70,000
Non-U.S. citizen	71,000	75,000	28,000	S	56,000
Permanent resident	76,000	78,000	41,000	S	57,000
Temporary resident	60,000	65,000	24,000	S	S
Scientists	70,000	77,000	39,000	53,000	60,000
U.S. citizen	70,000	80,000	40,000	53,000	61,000
Native-born	68,000	80,000	40,000	53,000	60,000
Naturalized	77,000	80,000	49,000	56,000	70,000
Non-U.S. citizen	71,000	75,000	32,000	S	55,000
Permanent resident	75,000	77,000	40,000	S	S
Temporary resident	60,000	67,000	29,000	S	S
Biological/agricultural/other life scientists	49,000	65,000	37,000	44,000	48,000
U.S. citizen	50,000	69,000	38,000	44,000	48,000
Native-born	50,000	70,000	38,000	44,000	48,000
Naturalized	62,000	65,000	S	S	S
Non-U.S. citizen	36,000	51,000	30,000	S	S
Permanent resident	40,000	S	S	S	S
Temporary resident	34,000	S	28,000	S	S
Agricultural/food scientists	47,000	60,000	37,000	S	S
U.S. citizen	50,000	65,000	37,000	S	S
Native-born	47,000	65,000	37,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Biological/medical scientists	54,000	70,000	38,000	S	51,000
U.S. citizen	55,000	70,000	38,000	S	51,000
Native-born	55,000	70,000	38,000	S	51,000
Naturalized	63,000	65,000	S	S	S
Non-U.S. citizen	40,000	56,000	30,000	S	S
Permanent resident	43,000	S	S	S	S
Temporary resident	36,000	S	30,000	S	S
Environmental life scientists	42,000	S	S	S	42,000
U.S. citizen	42,000	S	S	S	42,000
Native-born	42,000	S	S	S	42,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-life/related sciences	40,000	S	35,000	44,000	S
U.S. citizen	40,000	S	36,000	44,000	S
Native-born	40,000	S	36,000	44,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Computer/mathematical scientists	77,000	80,000	47,000	52,000	69,000
U.S. citizen	80,000	83,000	48,000	52,000	70,000
Native-born	78,000	83,000	48,000	51,000	69,000
Naturalized	80,000	82,000	60,000	S	72,000
Non-U.S. citizen	75,000	75,000	40,000	S	S
Permanent resident	78,000	79,000	S	S	S
Temporary resident	65,000	68,000	39,000	S	S
Computer/information scientists	80,000	80,000	49,000	57,000	70,000
U.S. citizen	80,000	83,000	49,000	57,000	70,000
Native-born	80,000	83,000	49,000	56,000	70,000
Naturalized	82,000	83,000	62,000	S	76,000
Non-U.S. citizen	75,000	75,000	38,000	S	S
Permanent resident	78,000	80,000	S	S	S
Temporary resident	66,000	67,000	S	S	S
Mathematical scientists	72,000	78,000	40,000	S	68,000
U.S. citizen	72,000	80,000	S	S	70,000
Native-born	73,000	80,000	S	S	65,000
Naturalized	70,000	S	S	S	S
Non-U.S. citizen	73,000	75,000	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	45,000	S	42,000	52,000	S
U.S. citizen	46,000	S	40,000	51,000	S
Native-born	45,000	S	40,000	52,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	45,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physical/related scientists	66,000	75,000	28,000	52,000	65,000
U.S. citizen	66,000	75,000	42,000	52,000	65,000
Native-born	70,000	75,000	42,000	57,000	66,000
Naturalized	60,000	66,000	S	S	S
Non-U.S. citizen	40,000	52,000	20,000	S	S
Permanent resident	48,000	S	S	S	S
Temporary resident	29,000	S	20,000	S	S
Chemists, except biochemists	66,000	69,000	S	S	56,000
U.S. citizen	70,000	76,000	S	S	56,000
Native-born	79,000	82,000	S	S	S
Naturalized	65,000	66,000	S	S	S
Non-U.S. citizen	43,000	58,000	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Earth/atmospheric/ocean scientists	75,000	75,000	38,000	S	65,000
U.S. citizen	75,000	75,000	S	S	65,000
Native-born	75,000	75,000	S	S	65,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physicists/astronomers	68,000	90,000	20,000	S	S
U.S. citizen	70,000	92,000	20,000	S	S
Native-born	84,000	95,000	20,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-physical/related sciences	45,000	S	43,000	52,000	S
U.S. citizen	45,000	S	45,000	52,000	S
Native-born	47,000	S	45,000	57,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other physical/related scientists	65,000	56,000	S	S	66,000
U.S. citizen	65,000	56,000	S	S	66,000
Native-born	65,000	56,000	S	S	66,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Social/related scientists	53,000	57,000	35,000	54,000	57,000
U.S. citizen	52,000	55,000	35,000	54,000	56,000
Native-born	52,000	55,000	35,000	54,000	56,000
Naturalized	63,000	63,000	S	S	S
Non-U.S. citizen	75,000	75,000	S	S	S
Permanent resident	75,000	80,000	S	S	S
Temporary resident	64,000	S	S	S	S
Economists	89,000	100,000	S	S	81,000
U.S. citizen	89,000	100,000	S	S	81,000
Native-born	89,000	100,000	S	S	81,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Political/related scientists	S	S	S	S	S
U.S. citizen	S	S	S	S	S
Native-born	S	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-social/related sciences	44,000	S	38,000	48,000	S
U.S. citizen	44,000	S	38,000	48,000	S
Native-born	44,000	S	38,000	48,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Psychologists	48,000	44,000	25,000	55,000	44,000
U.S. citizen	48,000	44,000	25,000	56,000	44,000
Native-born	47,000	44,000	25,000	56,000	44,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	50,000	S	S	S	S
U.S. citizen	50,000	S	S	S	S
Native-born	50,000	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	65,000	75,000	S	S	56,000
U.S. citizen	64,000	75,000	S	S	55,000
Native-born	65,000	75,000	S	S	55,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Engineers	80,000	80,000	40,000	S	76,000
U.S. citizen	80,000	81,000	52,000	S	76,000
Native-born	80,000	81,000	52,000	S	80,000
Naturalized	80,000	81,000	S	S	68,000
Non-U.S. citizen	72,000	73,000	20,000	S	S
Permanent resident	79,000	80,000	S	S	S
Temporary resident	60,000	62,000	20,000	S	S
Aerospace/aeronautical/astronautical engineers	82,000	80,000	S	S	93,000
U.S. citizen	82,000	80,000	S	S	93,000
Native-born	85,000	82,000	S	S	93,000
Naturalized	78,000	77,000	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	82,000	82,000	S	S	S
U.S. citizen	82,000	83,000	S	S	S
Native-born	81,000	82,000	S	S	S
Naturalized	96,000	96,000	S	S	S
Non-U.S. citizen	74,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Civil/architectural/sanitary engineers	72,000	73,000	S	S	72,000
U.S. citizen	73,000	75,000	S	S	72,000
Native-born	72,000	73,000	S	S	73,000
Naturalized	75,000	80,000	S	S	68,000
Non-U.S. citizen	55,000	55,000	S	S	S
Permanent resident	67,000	S	S	S	S
Temporary resident	50,000	50,000	S	S	S
Electrical/computer hardware engineers	86,000	87,000	30,000	S	85,000
U.S. citizen	88,000	89,000	S	S	84,000
Native-born	88,000	89,000	S	S	82,000
Naturalized	87,000	89,000	S	S	S
Non-U.S. citizen	80,000	80,000	S	S	S
Permanent resident	86,000	85,000	S	S	S
Temporary resident	70,000	73,000	S	S	S
Industrial engineers	72,000	72,000	S	S	S
U.S. citizen	72,000	72,000	S	S	S
Native-born	72,000	72,000	S	S	S
Naturalized	72,000	S	S	S	S
Non-U.S. citizen	67,000	67,000	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Mechanical engineers	78,000	78,000	S	S	88,000
U.S. citizen	80,000	79,000	S	S	88,000
Native-born	80,000	80,000	S	S	89,000
Naturalized	75,000	75,000	S	S	S
Non-U.S. citizen	68,000	68,000	S	S	S
Permanent resident	72,000	72,000	S	S	S
Temporary resident	57,000	60,000	S	S	S
Postsecondary teachers-engineering	65,000	S	63,000	S	S
U.S. citizen	65,000	S	65,000	S	S
Native-born	66,000	S	65,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other engineers	80,000	83,000	26,000	S	70,000
U.S. citizen	81,000	85,000	40,000	S	70,000
Native-born	83,000	85,000	40,000	S	71,000
Naturalized	78,000	80,000	S	S	S
Non-U.S. citizen	73,000	73,000	S	S	S
Permanent resident	75,000	75,000	S	S	S
Temporary resident	60,000	62,000	S	S	S
S&E-related occupations	56,000	67,000	60,000	48,000	65,000
U.S. citizen	56,000	67,000	60,000	48,000	65,000
Native-born	56,000	66,000	60,000	48,000	65,000
Naturalized	60,000	70,000	63,000	47,000	55,000
Non-U.S. citizen	60,000	64,000	S	S	S
Permanent resident	65,000	71,000	S	S	S
Temporary resident	48,000	53,000	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Health-related occupations	56,000	59,000	60,000	44,000	58,000
U.S. citizen	56,000	60,000	60,000	44,000	58,000
Native-born	56,000	58,000	60,000	44,000	60,000
Naturalized	60,000	63,000	63,000	S	52,000
Non-U.S. citizen	50,000	53,000	S	S	S
Permanent resident	50,000	53,000	S	S	S
Temporary resident	S	S	S	S	S
S&E managers	95,000	100,000	80,000	S	87,000
U.S. citizen	95,000	100,000	80,000	S	88,000
Native-born	94,000	99,000	80,000	S	87,000
Naturalized	100,000	100,000	S	S	S
Non-U.S. citizen	100,000	100,000	S	S	S
Permanent resident	102,000	103,000	S	S	S
Temporary resident	S	S	S	S	S
S&E precollege teachers	48,000	S	S	48,000	S
U.S. citizen	48,000	S	S	48,000	S
Native-born	48,000	S	S	48,000	S
Naturalized	47,000	S	S	47,000	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	63,000	70,000	45,000	S	60,000
U.S. citizen	64,000	70,000	49,000	S	63,000
Native-born	63,000	69,000	49,000	S	50,000
Naturalized	70,000	80,000	S	S	S
Non-U.S. citizen	63,000	65,000	S	S	S
Permanent resident	65,000	72,000	S	S	S
Temporary resident	53,000	63,000	S	S	S
Other S&E-related occupations	62,000	65,000	S	S	S
U.S. citizen	65,000	69,000	S	S	S
Native-born	69,000	70,000	S	S	S
Naturalized	55,000	55,000	S	S	S
Non-U.S. citizen	54,000	54,000	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	60,000	70,000	44,000	51,000	60,000
U.S. citizen	60,000	71,000	44,000	51,000	60,000
Native-born	60,000	71,000	44,000	51,000	61,000
Naturalized	62,000	70,000	58,000	50,000	52,000
Non-U.S. citizen	53,000	65,000	S	39,000	S
Permanent resident	50,000	60,000	S	S	S
Temporary resident	77,000	78,000	S	S	S
Art/humanities/related occupations	50,000	53,000	S	S	S
U.S. citizen	50,000	50,000	S	S	S
Native-born	50,000	53,000	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Management-related occupations	75,000	80,000	46,000	63,000	65,000
U.S. citizen	75,000	80,000	46,000	63,000	65,000
Native-born	75,000	79,000	46,000	60,000	66,000
Naturalized	75,000	80,000	S	S	64,000
Non-U.S. citizen	71,000	84,000	S	S	S
Permanent resident	70,000	74,000	S	S	S
Temporary resident	85,000	90,000	S	S	S
Non-S&E managers	100,000	115,000	68,000	75,000	93,000
U.S. citizen	100,000	115,000	68,000	75,000	93,000
Native-born	98,000	113,000	68,000	75,000	93,000
Naturalized	120,000	127,000	S	S	S
Non-U.S. citizen	100,000	103,000	S	S	S
Permanent resident	105,000	115,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E postsecondary teachers	44,000	S	44,000	47,000	S
U.S. citizen	44,000	S	44,000	47,000	S
Native-born	44,000	S	44,000	47,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E precollege/other teachers	49,000	S	S	49,000	S
U.S. citizen	49,000	S	S	49,000	S
Native-born	49,000	S	S	49,000	S
Naturalized	45,000	S	S	45,000	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	75,000	75,000	S	S	S
U.S. citizen	75,000	75,000	S	S	S
Native-born	75,000	75,000	S	S	S
Naturalized	62,000	62,000	S	S	S
Non-U.S. citizen	77,000	77,000	S	S	S
Permanent resident	80,000	80,000	S	S	S
Temporary resident	S	S	S	S	S
Social services/related occupations	43,000	40,000	41,000	49,000	45,000
U.S. citizen	43,000	40,000	39,000	49,000	45,000
Native-born	43,000	40,000	39,000	49,000	45,000
Naturalized	45,000	40,000	S	S	45,000
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	47,000	44,000	39,000	53,000	60,000
U.S. citizen	49,000	44,000	40,000	53,000	60,000
Native-born	50,000	44,000	39,000	53,000	62,000
Naturalized	43,000	43,000	S	S	43,000
Non-U.S. citizen	38,000	40,000	S	S	S
Permanent resident	38,000	40,000	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Doctorate degrees, all occupations	77,000	95,000	65,000	61,000	80,000
U.S. citizen	80,000	97,000	69,000	61,000	81,000
Native-born	77,000	97,000	67,000	61,000	84,000
Naturalized	85,000	100,000	75,000	52,000	72,000
Non-U.S. citizen	70,000	85,000	51,000	48,000	60,000
Permanent resident	75,000	89,000	62,000	50,000	75,000
Temporary resident	53,000	79,000	42,000	S	48,000
S&E occupations	75,000	90,000	63,000	55,000	80,000
U.S. citizen	77,000	95,000	65,000	55,000	80,000
Native-born	75,000	93,000	64,000	55,000	81,000
Naturalized	85,000	97,000	73,000	56,000	80,000
Non-U.S. citizen	68,000	84,000	50,000	S	58,000
Permanent resident	75,000	87,000	61,000	S	72,000
Temporary resident	51,000	78,000	43,000	S	48,000
Scientists	72,000	90,000	61,000	55,000	76,000
U.S. citizen	73,000	92,000	64,000	55,000	79,000
Native-born	72,000	91,000	63,000	55,000	80,000
Naturalized	80,000	93,000	70,000	58,000	78,000
Non-U.S. citizen	65,000	83,000	50,000	S	58,000
Permanent resident	72,000	86,000	60,000	S	72,000
Temporary resident	48,000	75,000	42,000	S	48,000
Biological/agricultural/other life scientists	67,000	86,000	58,000	52,000	72,000
U.S. citizen	70,000	90,000	62,000	52,000	74,000
Native-born	70,000	89,000	61,000	53,000	74,000
Naturalized	78,000	97,000	68,000	S	75,000
Non-U.S. citizen	51,000	80,000	45,000	S	50,000
Permanent resident	69,000	86,000	58,000	S	75,000
Temporary resident	42,000	48,000	40,000	S	S
Agricultural/food scientists	72,000	80,000	65,000	S	75,000
U.S. citizen	75,000	85,000	68,000	S	73,000
Native-born	75,000	85,000	69,000	S	75,000
Naturalized	73,000	S	S	S	S
Non-U.S. citizen	60,000	S	50,000	S	S
Permanent resident	74,000	S	S	S	S
Temporary resident	S	S	S	S	S
Biological/medical scientists	67,000	88,000	50,000	S	72,000
U.S. citizen	74,000	93,000	56,000	S	74,000
Native-born	72,000	90,000	54,000	S	74,000
Naturalized	78,000	97,000	60,000	S	76,000
Non-U.S. citizen	48,000	81,000	43,000	S	50,000
Permanent resident	70,000	86,000	55,000	S	75,000
Temporary resident	40,000	45,000	40,000	S	S
Environmental life scientists	63,000	S	S	S	73,000
U.S. citizen	64,000	S	S	S	73,000
Native-born	72,000	S	S	S	81,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-life/related sciences	66,000	S	67,000	52,000	S
U.S. citizen	66,000	S	68,000	52,000	S
Native-born	64,000	S	65,000	53,000	S
Naturalized	85,000	S	87,000	S	S
Non-U.S. citizen	65,000	S	65,000	S	S
Permanent resident	67,000	S	67,000	S	S
Temporary resident	60,000	S	60,000	S	S
Computer/mathematical scientists	79,000	93,000	64,000	45,000	76,000
U.S. citizen	80,000	100,000	66,000	45,000	80,000
Native-born	80,000	100,000	65,000	45,000	82,000
Naturalized	85,000	100,000	72,000	S	75,000
Non-U.S. citizen	75,000	85,000	55,000	S	S
Permanent resident	77,000	90,000	55,000	S	S
Temporary resident	68,000	75,000	57,000	S	S
Computer/information scientists	87,000	92,000	63,000	S	72,000
U.S. citizen	90,000	98,000	65,000	S	75,000
Native-born	89,000	98,000	60,000	S	76,000
Naturalized	92,000	100,000	S	S	S
Non-U.S. citizen	81,000	85,000	59,000	S	S
Permanent resident	90,000	90,000	S	S	S
Temporary resident	75,000	75,000	S	S	S
Mathematical scientists	88,000	100,000	70,000	S	85,000
U.S. citizen	95,000	102,000	80,000	S	89,000
Native-born	99,000	105,000	80,000	S	93,000
Naturalized	89,000	96,000	S	S	S
Non-U.S. citizen	70,000	81,000	65,000	S	S
Permanent resident	81,000	90,000	S	S	S
Temporary resident	65,000	70,000	S	S	S
Postsecondary teachers-computer/mathematical sciences	62,000	S	63,000	45,000	S
U.S. citizen	64,000	S	66,000	45,000	S
Native-born	64,000	S	64,000	S	S
Naturalized	68,000	S	70,000	S	S
Non-U.S. citizen	54,000	S	54,000	S	S
Permanent resident	52,000	S	51,000	S	S
Temporary resident	57,000	S	57,000	S	S
Physical/related scientists	79,000	90,000	63,000	54,000	91,000
U.S. citizen	80,000	95,000	66,000	54,000	92,000
Native-born	80,000	97,000	65,000	52,000	93,000
Naturalized	83,000	90,000	70,000	S	86,000
Non-U.S. citizen	66,000	83,000	50,000	S	S
Permanent resident	73,000	83,000	62,000	S	S
Temporary resident	53,000	80,000	42,000	S	S
Chemists, except biochemists	85,000	88,000	55,000	S	83,000
U.S. citizen	89,000	92,000	65,000	S	84,000
Native-born	90,000	95,000	66,000	S	84,000
Naturalized	85,000	87,000	S	S	82,000
Non-U.S. citizen	75,000	80,000	36,000	S	S
Permanent resident	80,000	82,000	S	S	S
Temporary resident	60,000	77,000	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Earth/atmospheric/ocean scientists	80,000	86,000	63,000	S	87,000
U.S. citizen	85,000	95,000	67,000	S	87,000
Native-born	87,000	99,000	68,000	S	90,000
Naturalized	71,000	S	S	S	65,000
Non-U.S. citizen	61,000	80,000	45,000	S	S
Permanent resident	68,000	S	S	S	S
Temporary resident	55,000	S	S	S	S
Physicists/astronomers	90,000	100,000	61,000	S	100,000
U.S. citizen	97,000	105,000	70,000	S	100,000
Native-born	96,000	104,000	70,000	S	100,000
Naturalized	100,000	110,000	68,000	S	101,000
Non-U.S. citizen	64,000	90,000	50,000	S	S
Permanent resident	84,000	100,000	55,000	S	S
Temporary resident	56,000	S	43,000	S	S
Postsecondary teachers-physical/related sciences	64,000	S	64,000	54,000	S
U.S. citizen	63,000	S	65,000	54,000	S
Native-born	63,000	S	64,000	52,000	S
Naturalized	73,000	S	75,000	S	S
Non-U.S. citizen	64,000	S	64,000	S	S
Permanent resident	65,000	S	65,000	S	S
Temporary resident	45,000	S	45,000	S	S
Other physical/related scientists	80,000	93,000	S	S	82,000
U.S. citizen	80,000	100,000	S	S	82,000
Native-born	80,000	105,000	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	45,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Social/related scientists	67,000	80,000	62,000	60,000	74,000
U.S. citizen	67,000	80,000	62,000	60,000	74,000
Native-born	66,000	80,000	61,000	60,000	74,000
Naturalized	72,000	80,000	72,000	S	75,000
Non-U.S. citizen	68,000	110,000	64,000	S	S
Permanent resident	68,000	100,000	65,000	S	S
Temporary resident	73,000	140,000	54,000	S	S
Economists	105,000	130,000	77,000	S	95,000
U.S. citizen	105,000	130,000	77,000	S	92,000
Native-born	106,000	130,000	77,000	S	95,000
Naturalized	100,000	S	S	S	S
Non-U.S. citizen	105,000	125,000	S	S	S
Permanent resident	100,000	S	S	S	S
Temporary resident	140,000	S	S	S	S
Political/related scientists	75,000	S	S	S	S
U.S. citizen	80,000	S	S	S	S
Native-born	90,000	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment: Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-social/related sciences	61,000	S	61,000	53,000	S
U.S. citizen	61,000	S	61,000	53,000	S
Native-born	60,000	S	60,000	53,000	S
Naturalized	72,000	S	72,000	S	S
Non-U.S. citizen	64,000	S	64,000	S	S
Permanent resident	64,000	S	64,000	S	S
Temporary resident	61,000	S	65,000	S	S
Psychologists	70,000	80,000	60,000	63,000	71,000
U.S. citizen	72,000	80,000	61,000	63,000	72,000
Native-born	72,000	80,000	60,000	63,000	71,000
Naturalized	75,000	77,000	S	S	S
Non-U.S. citizen	60,000	S	S	S	S
Permanent resident	64,000	S	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	63,000	62,000	63,000	S	70,000
U.S. citizen	63,000	62,000	63,000	S	70,000
Native-born	63,000	62,000	65,000	S	70,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	70,000	80,000	62,000	S	70,000
U.S. citizen	70,000	74,000	66,000	S	70,000
Native-born	70,000	79,000	61,000	S	70,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Engineers	90,000	95,000	80,000	S	88,000
U.S. citizen	94,000	100,000	85,000	S	88,000
Native-born	91,000	98,000	82,000	S	90,000
Naturalized	95,000	100,000	90,000	S	85,000
Non-U.S. citizen	80,000	85,000	61,000	S	S
Permanent resident	84,000	89,000	70,000	S	S
Temporary resident	71,000	82,000	45,000	S	S
Aerospace/aeronautical/astronautical engineers	96,000	98,000	S	S	90,000
U.S. citizen	100,000	100,000	S	S	90,000
Native-born	100,000	104,000	S	S	90,000
Naturalized	100,000	100,000	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	90,000	94,000	S	S	S
U.S. citizen	97,000	97,000	S	S	S
Native-born	93,000	95,000	S	S	S
Naturalized	98,000	98,000	S	S	S
Non-U.S. citizen	81,000	83,000	S	S	S
Permanent resident	83,000	83,000	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Civil/architectural/sanitary engineers	78,000	80,000	S	S	80,000
U.S. citizen	82,000	90,000	S	S	80,000
Native-born	78,000	78,000	S	S	S
Naturalized	91,000	94,000	S	S	S
Non-U.S. citizen	64,000	68,000	S	S	S
Permanent resident	81,000	S	S	S	S
Temporary resident	S	S	S	S	S
Electrical/computer hardware engineers	102,000	104,000	85,000	S	93,000
U.S. citizen	107,000	109,000	105,000	S	93,000
Native-born	106,000	110,000	100,000	S	103,000
Naturalized	108,000	108,000	S	S	S
Non-U.S. citizen	95,000	100,000	S	S	S
Permanent resident	101,000	103,000	S	S	S
Temporary resident	87,000	91,000	S	S	S
Industrial engineers	73,000	60,000	S	S	S
U.S. citizen	50,000	45,000	S	S	S
Native-born	45,000	45,000	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Mechanical engineers	90,000	90,000	75,000	S	100,000
U.S. citizen	98,000	98,000	92,000	S	100,000
Native-born	98,000	98,000	92,000	S	S
Naturalized	97,000	97,000	S	S	S
Non-U.S. citizen	75,000	79,000	S	S	S
Permanent resident	82,000	85,000	S	S	S
Temporary resident	71,000	75,000	S	S	S
Postsecondary teachers-engineering	81,000	S	81,000	S	S
U.S. citizen	84,000	S	84,000	S	S
Native-born	82,000	S	82,000	S	S
Naturalized	87,000	S	89,000	S	S
Non-U.S. citizen	68,000	S	68,000	S	S
Permanent resident	70,000	S	70,000	S	S
Temporary resident	65,000	S	65,000	S	S
Other engineers	85,000	90,000	68,000	S	85,000
U.S. citizen	90,000	95,000	72,000	S	86,000
Native-born	88,000	93,000	70,000	S	89,000
Naturalized	92,000	95,000	S	S	78,000
Non-U.S. citizen	79,000	83,000	40,000	S	S
Permanent resident	84,000	84,000	S	S	S
Temporary resident	65,000	80,000	S	S	S
S&E-related occupations	80,000	100,000	70,000	53,000	80,000
U.S. citizen	80,000	103,000	73,000	51,000	80,000
Native-born	78,000	100,000	71,000	50,000	98,000
Naturalized	90,000	113,000	89,000	56,000	72,000
Non-U.S. citizen	66,000	87,000	50,000	S	S
Permanent resident	68,000	75,000	69,000	S	S
Temporary resident	54,000	92,000	36,000	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Health-related occupations	72,000	82,000	69,000	S	72,000
U.S. citizen	72,000	82,000	70,000	S	72,000
Native-born	70,000	80,000	67,000	S	84,000
Naturalized	72,000	90,000	83,000	S	S
Non-U.S. citizen	62,000	55,000	65,000	S	S
Permanent resident	55,000	50,000	71,000	S	S
Temporary resident	180,000	S	S	S	S
S&E managers	120,000	125,000	110,000	S	103,000
U.S. citizen	120,000	125,000	109,000	S	103,000
Native-born	120,000	126,000	105,000	S	105,000
Naturalized	120,000	123,000	S	S	S
Non-U.S. citizen	111,000	105,000	S	S	S
Permanent resident	120,000	120,000	S	S	S
Temporary resident	S	S	S	S	S
S&E precollege teachers	52,000	S	S	50,000	S
U.S. citizen	50,000	S	S	50,000	S
Native-born	50,000	S	S	50,000	S
Naturalized	56,000	S	S	56,000	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	62,000	75,000	38,000	S	S
U.S. citizen	80,000	80,000	S	S	S
Native-born	85,000	85,000	S	S	S
Naturalized	72,000	70,000	S	S	S
Non-U.S. citizen	45,000	70,000	S	S	S
Permanent resident	59,000	S	S	S	S
Temporary resident	S	S	S	S	S
Other S&E-related occupations	90,000	S	S	S	S
U.S. citizen	S	S	S	S	S
Native-born	S	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	85,000	100,000	75,000	70,000	85,000
U.S. citizen	85,000	100,000	77,000	70,000	85,000
Native-born	85,000	100,000	75,000	71,000	85,000
Naturalized	80,000	101,000	80,000	42,000	55,000
Non-U.S. citizen	80,000	95,000	64,000	S	S
Permanent resident	84,000	100,000	65,000	S	S
Temporary resident	76,000	83,000	50,000	S	S
Art/humanities/related occupations	70,000	73,000	47,000	S	S
U.S. citizen	65,000	70,000	S	S	S
Native-born	65,000	70,000	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Management-related occupations	87,000	97,000	87,000	S	57,000
U.S. citizen	87,000	97,000	87,000	S	57,000
Native-born	87,000	97,000	87,000	S	59,000
Naturalized	80,000	90,000	S	S	S
Non-U.S. citizen	90,000	92,000	S	S	S
Permanent resident	84,000	88,000	S	S	S
Temporary resident	92,000	S	S	S	S
Non-S&E managers	115,000	143,000	110,000	102,000	105,000
U.S. citizen	112,000	140,000	110,000	102,000	105,000
Native-born	112,000	133,000	110,000	102,000	105,000
Naturalized	150,000	170,000	122,000	S	S
Non-U.S. citizen	143,000	170,000	S	S	S
Permanent resident	150,000	175,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E postsecondary teachers	65,000	S	65,000	53,000	S
U.S. citizen	65,000	S	65,000	53,000	S
Native-born	65,000	S	65,000	56,000	S
Naturalized	72,000	S	75,000	S	S
Non-U.S. citizen	57,000	S	60,000	S	S
Permanent resident	60,000	S	60,000	S	S
Temporary resident	50,000	S	S	S	S
Non-S&E precollege/other teachers	61,000	S	S	61,000	S
U.S. citizen	61,000	S	S	61,000	S
Native-born	61,000	S	S	61,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	125,000	130,000	S	S	S
U.S. citizen	126,000	130,000	S	S	S
Native-born	150,000	150,000	S	S	S
Naturalized	85,000	85,000	S	S	S
Non-U.S. citizen	120,000	125,000	S	S	S
Permanent resident	132,000	140,000	S	S	S
Temporary resident	S	S	S	S	S
Social services/related occupations	51,000	50,000	58,000	46,000	S
U.S. citizen	51,000	50,000	58,000	46,000	S
Native-born	55,000	51,000	S	46,000	S
Naturalized	40,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	56,000	61,000	45,000	S	56,000
U.S. citizen	55,000	63,000	42,000	S	56,000
Native-born	60,000	76,000	38,000	S	56,000
Naturalized	50,000	50,000	S	S	S

TABLE 26. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Non-U.S. citizen	61,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. Business/industry includes self-employed individuals, nonprofit organizations, and other unspecified. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Government includes federal, military, state, and local employers. Salaries are for principal job and rounded to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
All degree levels and occupations[a]	60,000	65,000	46,000	65,000	65,000	56,000
<30	40,000	45,000	36,000	40,000	51,000	40,000
30–39	60,000	63,000	43,000	63,000	65,000	53,000
40–49	68,000	72,000	50,000	72,000	70,000	64,000
50–59	65,000	72,000	54,000	70,000	67,000	61,000
60+	65,000	78,000	58,000	69,000	60,000	65,000
S&E occupations	70,000	70,000	56,000	72,000	70,000	62,000
<30	50,000	48,000	36,000	50,000	55,000	45,000
30–39	67,000	66,000	51,000	69,000	70,000	60,000
40–49	75,000	78,000	57,000	80,000	75,000	69,000
50–59	75,000	80,000	65,000	76,000	74,000	68,000
60+	80,000	87,000	72,000	83,000	75,000	75,000
Scientists	65,000	65,000	54,000	69,000	70,000	55,000
<30	45,000	43,000	36,000	47,000	55,000	40,000
30–39	65,000	64,000	50,000	68,000	70,000	55,000
40–49	72,000	75,000	54,000	75,000	75,000	60,000
50–59	70,000	78,000	63,000	72,000	72,000	60,000
60+	76,000	86,000	71,000	80,000	72,000	70,000
Biological/agricultural/other life scientists	50,000	50,000	51,000	54,000	45,000	48,000
<30	31,000	30,000	25,000	31,000	38,000	33,000
30–39	47,000	46,000	44,000	54,000	43,000	48,000
40–49	58,000	64,000	50,000	58,000	50,000	46,000
50–59	64,000	71,000	65,000	61,000	63,000	56,000
60+	77,000	90,000	78,000	70,000	S	70,000
Agricultural/food scientists	48,000	50,000	46,000	50,000	48,000	38,000
<30	38,000	44,000	S	35,000	S	S
30–39	39,000	39,000	S	42,000	S	S
40–49	54,000	60,000	S	54,000	S	42,000
50–59	65,000	70,000	S	55,000	S	60,000
60+	50,000	60,000	S	50,000	S	S
Biological/medical scientists	50,000	50,000	40,000	60,000	49,000	48,000
<30	30,000	30,000	S	31,000	40,000	34,000
30–39	48,000	46,000	40,000	58,000	45,000	50,000
40–49	62,000	65,000	45,000	64,000	50,000	50,000
50–59	67,000	74,000	75,000	61,000	61,000	60,000
60+	90,000	95,000	S	100,000	S	70,000
Environmental life scientists	48,000	47,000	S	49,000	42,000	45,000
<30	32,000	S	S	S	S	S
30–39	45,000	S	S	42,000	S	S
40–49	50,000	57,000	S	51,000	S	37,000
50–59	58,000	50,000	S	56,000	S	51,000
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	55,000	60,000	55,000	55,000	S	50,000
<30	21,000	18,000	24,000	S	S	S
30–39	45,000	49,000	45,000	53,000	S	S
40–49	53,000	60,000	53,000	45,000	S	S
50–59	65,000	74,000	65,000	66,000	S	55,000
60+	78,000	90,000	77,000	78,000	S	76,000

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Computer/mathematical scientists	70,000	72,000	52,000	72,000	70,000	65,000
<30	55,000	55,000	40,000	55,000	57,000	50,000
30–39	70,000	72,000	52,000	70,000	70,000	65,000
40–49	76,000	80,000	60,000	80,000	75,000	70,000
50–59	74,000	80,000	60,000	75,000	73,000	61,000
60+	76,000	90,000	53,000	80,000	72,000	66,000
Computer/information scientists	70,000	72,000	53,000	72,000	70,000	65,000
<30	55,000	57,000	38,000	55,000	58,000	50,000
30–39	70,000	72,000	59,000	71,000	70,000	65,000
40–49	77,000	80,000	64,000	80,000	75,000	70,000
50–59	75,000	80,000	54,000	75,000	73,000	60,000
60+	80,000	90,000	S	80,000	72,000	80,000
Mathematical scientists	73,000	75,000	80,000	73,000	71,000	76,000
<30	44,000	44,000	S	40,000	44,000	S
30–39	65,000	68,000	S	73,000	62,000	S
40–49	80,000	80,000	S	72,000	88,000	100,000
50–59	82,000	90,000	S	85,000	82,000	S
60+	106,000	108,000	S	S	106,000	S
Postsecondary teachers-computer/mathematical sciences	51,000	60,000	51,000	52,000	45,000	54,000
<30	40,000	40,000	40,000	S	S	S
30–39	44,000	52,000	44,000	44,000	33,000	S
40–49	55,000	63,000	55,000	50,000	45,000	S
50–59	58,000	65,000	57,000	54,000	50,000	S
60+	57,000	78,000	55,000	70,000	65,000	48,000
Physical/related scientists	60,000	62,000	54,000	65,000	60,000	50,000
<30	39,000	39,000	22,000	40,000	37,000	40,000
30–39	52,000	54,000	50,000	55,000	59,000	48,000
40–49	67,000	75,000	56,000	70,000	65,000	55,000
50–59	74,000	78,000	65,000	76,000	71,000	60,000
60+	82,000	89,000	75,000	84,000	60,000	84,000
Chemists, except biochemists	60,000	64,000	60,000	66,000	52,000	50,000
<30	40,000	41,000	S	39,000	36,000	36,000
30–39	56,000	59,000	S	57,000	62,000	46,000
40–49	70,000	75,000	S	77,000	47,000	60,000
50–59	74,000	80,000	S	75,000	S	57,000
60+	82,000	86,000	S	84,000	S	82,000
Earth/atmospheric/ocean scientists	64,000	65,000	64,000	65,000	60,000	58,000
<30	37,000	35,000	S	44,000	S	42,000
30–39	54,000	52,000	S	54,000	60,000	50,000
40–49	70,000	75,000	S	65,000	65,000	60,000
50–59	72,000	73,000	S	82,000	60,000	63,000
60+	85,000	66,000	S	S	S	S
Physicists/astronomers	80,000	79,000	62,000	95,000	84,000	61,000
<30	22,000	22,000	S	S	20,000	S
30–39	63,000	60,000	S	103,000	60,000	64,000
40–49	86,000	90,000	S	85,000	90,000	S
50–59	95,000	95,000	S	100,000	99,000	S
60+	104,000	108,000	S	113,000	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Postsecondary teachers-physical/related sciences	54,000	60,000	54,000	60,000	44,000	44,000
<30	22,000	20,000	23,000	S	S	S
30–39	50,000	50,000	48,000	50,000	S	S
40–49	57,000	64,000	56,000	58,000	S	44,000
50–59	66,000	73,000	65,000	65,000	S	S
60+	78,000	91,000	78,000	75,000	S	S
Other physical/related scientists	48,000	52,000	S	54,000	49,000	46,000
<30	40,000	42,000	S	S	S	S
30–39	51,000	52,000	S	52,000	S	S
40–49	45,000	68,000	S	60,000	S	S
50–59	61,000	60,000	S	61,000	S	S
60+	S	S	S	S	S	S
Social/related scientists	56,000	55,000	55,000	60,000	53,000	54,000
<30	40,000	38,000	22,000	40,000	S	40,000
30–39	51,000	54,000	48,000	55,000	53,000	49,000
40–49	62,000	65,000	52,000	70,000	50,000	60,000
50–59	67,000	75,000	65,000	68,000	65,000	61,000
60+	74,000	76,000	74,000	80,000	S	69,000
Economists	87,000	80,000	S	100,000	72,000	90,000
<30	45,000	40,000	S	S	S	S
30–39	90,000	77,000	S	100,000	S	100,000
40–49	90,000	89,000	S	130,000	S	266,000
50–59	86,000	81,000	S	120,000	S	40,000
60+	90,000	100,000	S	S	S	S
Political/related scientists	43,000	43,000	S	49,000	S	43,000
<30	S	S	S	S	S	S
30–39	50,000	43,000	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	56,000	60,000	55,000	58,000	52,000	55,000
<30	36,000	48,000	36,000	S	S	S
30–39	47,000	48,000	46,000	50,000	S	40,000
40–49	53,000	56,000	53,000	54,000	S	52,000
50–59	65,000	68,000	65,000	66,000	S	55,000
60+	72,000	72,000	72,000	75,000	S	73,000
Psychologists	54,000	48,000	58,000	56,000	53,000	55,000
<30	34,000	30,000	S	35,000	S	39,000
30–39	46,000	41,000	58,000	46,000	S	45,000
40–49	60,000	72,000	60,000	60,000	S	58,000
50–59	60,000	60,000	72,000	63,000	S	60,000
60+	65,000	65,000	80,000	64,000	S	65,000
Sociologists/anthropologists	50,000	50,000	S	54,000	S	50,000
<30	S	S	S	S	S	S
30–39	49,000	48,000	S	41,000	S	S
40–49	50,000	50,000	S	55,000	S	S
50–59	68,000	68,000	S	68,000	S	S
60+	S	S	S	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other social/related scientists	55,000	55,000	S	56,000	58,000	51,000
<30	40,000	40,000	S	40,000	S	43,000
30–39	55,000	55,000	S	54,000	S	51,000
40–49	70,000	70,000	S	75,000	S	56,000
50–59	82,000	84,000	S	72,000	S	84,000
60+	81,000	85,000	S	85,000	S	S
Engineers	74,000	74,000	72,000	75,000	71,000	71,000
<30	55,000	55,000	51,000	54,000	55,000	54,000
30–39	70,000	70,000	63,000	70,000	72,000	68,000
40–49	80,000	81,000	72,000	84,000	78,000	79,000
50–59	81,000	82,000	81,000	82,000	80,000	78,000
60+	85,000	89,000	90,000	85,000	80,000	85,000
Aerospace/aeronautical/astronautical engineers	82,000	81,000	S	88,000	80,000	80,000
<30	56,000	56,000	S	62,000	57,000	55,000
30–39	75,000	76,000	S	77,000	78,000	81,000
40–49	85,000	85,000	S	90,000	82,000	80,000
50–59	90,000	90,000	S	97,000	84,000	S
60+	98,000	98,000	S	95,000	S	S
Chemical engineers	78,000	78,000	S	80,000	80,000	76,000
<30	59,000	57,000	S	60,000	57,000	61,000
30–39	73,000	71,000	S	75,000	75,000	72,000
40–49	90,000	92,000	S	91,000	90,000	81,000
50–59	92,000	95,000	S	96,000	89,000	89,000
60+	100,000	115,000	S	S	S	S
Civil/architectural/sanitary engineers	68,000	62,000	S	72,000	60,000	72,000
<30	48,000	47,000	S	50,000	47,000	45,000
30–39	63,000	60,000	S	65,000	60,000	70,000
40–49	73,000	71,000	S	78,000	62,000	76,000
50–59	80,000	76,000	S	80,000	69,000	86,000
60+	80,000	78,000	S	82,000	S	82,000
Electrical/computer hardware engineers	80,000	80,000	67,000	85,000	77,000	70,000
<30	62,000	62,000	S	65,000	61,000	60,000
30–39	76,000	75,000	S	80,000	77,000	70,000
40–49	87,000	89,000	S	89,000	80,000	75,000
50–59	85,000	85,000	S	86,000	86,000	75,000
60+	91,000	95,000	S	85,000	88,000	83,000
Industrial engineers	65,000	66,000	S	65,000	57,000	65,000
<30	52,000	53,000	S	52,000	45,000	52,000
30–39	62,000	62,000	S	63,000	53,000	60,000
40–49	72,000	74,000	S	72,000	66,000	76,000
50–59	65,000	70,000	S	65,000	S	69,000
60+	79,000	S	S	S	S	S
Mechanical engineers	72,000	72,000	68,000	75,000	65,000	70,000
<30	55,000	55,000	S	58,000	50,000	58,000
30–39	69,000	68,000	S	73,000	65,000	70,000
40–49	80,000	81,000	S	84,000	75,000	75,000
50–59	82,000	85,000	S	83,000	75,000	75,000
60+	78,000	80,000	S	73,000	S	82,000

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Postsecondary teachers-engineering	72,000	76,000	72,000	70,000	65,000	70,000
<30	25,000	S	S	S	S	S
30–39	63,000	67,000	61,000	65,000	S	S
40–49	72,000	77,000	72,000	69,000	S	S
50–59	80,000	85,000	80,000	72,000	S	S
60+	87,000	91,000	86,000	82,000	S	S
Other engineers	72,000	70,000	78,000	75,000	68,000	70,000
<30	51,000	49,000	S	52,000	55,000	52,000
30–39	68,000	70,000	S	68,000	67,000	62,000
40–49	80,000	80,000	S	82,000	78,000	80,000
50–59	78,000	78,000	S	80,000	75,000	80,000
60+	87,000	80,000	S	93,000	70,000	90,000
S&E-related occupations	57,000	55,000	47,000	64,000	60,000	60,000
<30	40,000	39,000	38,000	42,000	45,000	42,000
30–39	53,000	53,000	43,000	60,000	60,000	55,000
40–49	63,000	65,000	50,000	70,000	64,000	65,000
50–59	64,000	65,000	54,000	70,000	60,000	66,000
60+	70,000	70,000	53,000	75,000	53,000	80,000
Health-related occupations	60,000	55,000	55,000	62,000	50,000	60,000
<30	41,000	39,000	42,000	43,000	34,000	42,000
30–39	55,000	52,000	50,000	60,000	50,000	56,000
40–49	65,000	65,000	60,000	67,000	54,000	65,000
50–59	65,000	66,000	60,000	70,000	50,000	70,000
60+	75,000	80,000	75,000	72,000	50,000	80,000
S&E managers	92,000	98,000	S	93,000	100,000	84,000
<30	61,000	77,000	S	61,000	S	S
30–39	83,000	87,000	S	83,000	100,000	75,000
40–49	92,000	103,000	S	92,000	100,000	83,000
50–59	100,000	103,000	S	100,000	115,000	90,000
60+	95,000	100,000	S	95,000	S	88,000
S&E precollege teachers	42,000	40,000	42,000	41,000	48,000	42,000
<30	35,000	34,000	35,000	35,000	44,000	36,000
30–39	39,000	39,000	39,000	38,000	44,000	35,000
40–49	44,000	42,000	44,000	45,000	41,000	45,000
50–59	50,000	50,000	50,000	51,000	53,000	50,000
60+	45,000	S	45,000	46,000	S	S
S&E technicians/technologists	57,000	55,000	57,000	60,000	63,000	48,000
<30	41,000	38,000	S	44,000	45,000	40,000
30–39	59,000	56,000	S	67,000	65,000	46,000
40–49	60,000	60,000	S	60,000	63,000	50,000
50–59	60,000	60,000	S	64,000	70,000	48,000
60+	61,000	70,000	S	75,000	62,000	S
Other S&E-related occupations	60,000	58,000	S	66,000	55,000	60,000
<30	47,000	46,000	S	49,000	51,000	S
30–39	55,000	52,000	S	55,000	57,000	58,000
40–49	73,000	66,000	S	75,000	S	80,000
50–59	70,000	80,000	S	75,000	S	50,000
60+	84,000	65,000	S	84,000	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Non-S&E occupations	54,000	60,000	42,000	60,000	47,000	50,000
<30	35,000	40,000	30,000	36,000	36,000	34,000
30–39	54,000	60,000	40,000	60,000	50,000	47,000
40–49	61,000	60,000	44,000	70,000	52,000	57,000
50–59	60,000	63,000	50,000	65,000	50,000	53,000
60+	53,000	65,000	53,000	57,000	45,000	48,000
Art/humanities/related occupations	50,000	52,000	25,000	50,000	47,000	42,000
<30	30,000	40,000	S	29,000	S	32,000
30–39	55,000	55,000	S	55,000	57,000	50,000
40–49	52,000	55,000	S	52,000	S	49,000
50–59	49,000	71,000	S	49,000	S	37,000
60+	50,000	40,000	S	52,000	S	50,000
Management-related occupations	64,000	65,000	66,000	64,000	60,000	67,000
<30	49,000	50,000	S	50,000	45,000	48,000
30–39	65,000	70,000	73,000	65,000	56,000	63,000
40–49	70,000	75,000	45,000	70,000	65,000	75,000
50–59	68,000	64,000	67,000	68,000	63,000	70,000
60+	55,000	70,000	S	50,000	37,000	45,000
Non-S&E managers	100,000	100,000	75,000	100,000	85,000	100,000
<30	60,000	S	S	60,000	S	S
30–39	85,000	86,000	S	85,000	66,000	85,000
40–49	104,000	105,000	70,000	104,000	99,000	104,000
50–59	100,000	105,000	80,000	100,000	75,000	100,000
60+	100,000	95,000	80,000	102,000	75,000	90,000
Non-S&E postsecondary teachers	50,000	52,000	50,000	50,000	44,000	52,000
<30	45,000	S	45,000	S	S	S
30–39	47,000	46,000	47,000	46,000	S	47,000
40–49	48,000	52,000	48,000	48,000	S	45,000
50–59	55,000	65,000	54,000	60,000	S	60,000
60+	62,000	80,000	64,000	56,000	S	60,000
Non-S&E precollege/other teachers	40,000	39,000	40,000	41,000	37,000	40,000
<30	32,000	37,000	32,000	30,000	S	33,000
30–39	37,000	37,000	37,000	34,000	S	39,000
40–49	41,000	40,000	40,000	48,000	S	38,000
50–59	50,000	55,000	50,000	52,000	42,000	43,000
60+	48,000	S	52,000	S	S	S
Sales/marketing occupations	60,000	70,000	61,000	60,000	60,000	50,000
<30	42,000	46,000	S	42,000	52,000	44,000
30–39	66,000	90,000	S	66,000	65,000	68,000
40–49	70,000	80,000	S	70,000	75,000	65,000
50–59	60,000	68,000	S	60,000	60,000	50,000
60+	45,000	70,000	S	50,000	S	36,000
Social services/related occupations	39,000	37,000	40,000	40,000	35,000	39,000
<30	30,000	30,000	26,000	31,000	29,000	30,000
30–39	38,000	37,000	40,000	38,000	38,000	37,000
40–49	40,000	40,000	45,000	40,000	30,000	40,000
50–59	46,000	43,000	49,000	48,000	42,000	45,000
60+	42,000	S	35,000	47,000	S	44,000

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other non-S&E occupations	45,000	50,000	40,000	47,000	40,000	50,000
<30	32,000	37,000	28,000	31,000	30,000	35,000
30–39	46,000	60,000	48,000	48,000	43,000	49,000
40–49	50,000	48,000	40,000	53,000	41,000	60,000
50–59	50,000	54,000	40,000	52,000	42,000	50,000
60+	45,000	48,000	45,000	48,000	39,000	45,000
Bachelor's degrees, all occupations	54,000	60,000	40,000	58,000	60,000	48,000
<30	40,000	43,000	33,000	39,000	50,000	36,000
30–39	55,000	60,000	39,000	59,000	62,000	48,000
40–49	60,000	70,000	42,000	65,000	70,000	54,000
50–59	58,000	67,000	45,000	60,000	62,000	50,000
60+	52,000	68,000	42,000	60,000	50,000	45,000
S&E occupations	65,000	65,000	47,000	69,000	68,000	60,000
<30	48,000	47,000	36,000	50,000	55,000	45,000
30–39	65,000	65,000	54,000	67,000	68,000	59,000
40–49	74,000	75,000	48,000	75,000	73,000	65,000
50–59	72,000	75,000	53,000	75,000	70,000	65,000
60+	76,000	76,000	75,000	80,000	72,000	75,000
Scientists	62,000	60,000	44,000	65,000	68,000	50,000
<30	45,000	43,000	35,000	45,000	55,000	40,000
30–39	65,000	64,000	52,000	65,000	67,000	54,000
40–49	70,000	71,000	46,000	70,000	73,000	54,000
50–59	69,000	70,000	45,000	70,000	70,000	52,000
60+	69,000	70,000	S	74,000	72,000	61,000
Biological/agricultural/other life scientists	42,000	40,000	35,000	46,000	45,000	44,000
<30	30,000	28,000	23,000	31,000	39,000	33,000
30–39	46,000	46,000	S	49,000	S	46,000
40–49	48,000	54,000	S	46,000	S	45,000
50–59	55,000	53,000	S	51,000	S	51,000
60+	50,000	S	S	S	S	S
Agricultural/food scientists	46,000	46,000	S	46,000	S	33,000
<30	38,000	S	S	S	S	S
30–39	39,000	S	S	S	S	S
40–49	48,000	60,000	S	S	S	S
50–59	55,000	S	S	S	S	S
60+	S	S	S	S	S	S
Biological/medical scientists	40,000	37,000	25,000	45,000	47,000	46,000
<30	29,000	28,000	S	29,000	S	34,000
30–39	48,000	48,000	S	49,000	S	48,000
40–49	50,000	52,000	S	46,000	S	46,000
50–59	51,000	51,000	S	48,000	S	51,000
60+	S	S	S	S	S	S
Environmental life scientists	50,000	50,000	S	51,000	S	48,000
<30	32,000	S	S	S	S	S
30–39	50,000	S	S	S	S	S
40–49	50,000	S	S	51,000	S	S
50–59	63,000	S	S	61,000	S	S
60+	S	S	S	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Postsecondary teachers-life/related sciences	31,000	S	35,000	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Computer/mathematical scientists	68,000	69,000	48,000	70,000	69,000	62,000
<30	54,000	53,000	38,000	55,000	55,000	48,000
30–39	68,000	69,000	54,000	69,000	68,000	65,000
40–49	75,000	76,000	59,000	75,000	75,000	70,000
50–59	70,000	75,000	45,000	73,000	70,000	54,000
60+	75,000	80,000	S	76,000	72,000	S
Computer/information scientists	69,000	70,000	52,000	70,000	69,000	60,000
<30	55,000	54,000	37,000	55,000	55,000	50,000
30–39	68,000	70,000	59,000	70,000	68,000	65,000
40–49	75,000	76,000	62,000	75,000	75,000	70,000
50–59	70,000	75,000	45,000	73,000	70,000	54,000
60+	75,000	80,000	S	76,000	72,000	S
Mathematical scientists	60,000	60,000	S	58,000	53,000	92,000
<30	42,000	42,000	S	S	S	S
30–39	S	S	S	S	S	S
40–49	87,000	S	S	72,000	S	S
50–59	75,000	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	38,000	38,000	40,000	S	38,000	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Physical/related scientists	47,000	47,000	34,000	52,000	50,000	46,000
<30	38,000	38,000	20,000	40,000	36,000	36,000
30–39	49,000	50,000	S	48,000	52,000	47,000
40–49	60,000	61,000	S	65,000	52,000	50,000
50–59	60,000	60,000	S	63,000	S	54,000
60+	60,000	60,000	S	S	S	S
Chemists, except biochemists	50,000	50,000	S	55,000	50,000	47,000
<30	40,000	40,000	S	38,000	S	36,000
30–39	50,000	50,000	S	50,000	S	45,000
40–49	64,000	58,000	S	70,000	S	60,000
50–59	63,000	72,000	S	74,000	S	50,000
60+	60,000	S	S	S	S	S
Earth/atmospheric/ocean scientists	54,000	51,000	S	60,000	50,000	50,000
<30	34,000	32,000	S	42,000	S	40,000
30–39	52,000	55,000	S	49,000	S	S
40–49	65,000	68,000	S	65,000	S	S
50–59	60,000	47,000	S	S	S	S
60+	S	S	S	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Physicists/astronomers	50,000	40,000	S	S	S	S
<30	25,000	25,000	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-physical/related sciences	25,000	20,000	34,000	S	S	S
<30	20,000	20,000	22,000	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other physical/related scientists	40,000	40,000	S	45,000	S	40,000
<30	40,000	S	S	S	S	S
30–39	40,000	43,000	S	S	S	S
40–49	41,000	S	S	45,000	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Social/related scientists	45,000	44,000	34,000	48,000	53,000	44,000
<30	38,000	36,000	S	40,000	S	40,000
30–39	50,000	55,000	S	50,000	S	49,000
40–49	52,000	75,000	S	69,000	S	46,000
50–59	72,000	84,000	S	64,000	S	S
60+	S	S	S	S	S	S
Economists	60,000	45,000	S	93,000	S	S
<30	45,000	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Political/related scientists	40,000	S	S	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	S	S	S	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Psychologists	31,000	S	S	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Sociologists/anthropologists	S	S	S	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other social/related scientists	50,000	55,000	S	48,000	58,000	44,000
<30	40,000	40,000	S	40,000	S	S
30–39	54,000	58,000	S	50,000	S	S
40–49	52,000	S	S	64,000	S	S
50–59	73,000	84,000	S	45,000	S	S
60+	S	S	S	S	S	S
Engineers	70,000	70,000	65,000	72,000	66,000	69,000
<30	54,000	54,000	51,000	53,000	55,000	53,000
30–39	67,000	67,000	65,000	68,000	70,000	66,000
40–49	78,000	78,000	60,000	80,000	75,000	75,000
50–59	79,000	80,000	78,000	80,000	73,000	75,000
60+	82,000	80,000	S	83,000	79,000	85,000
Aerospace/aeronautical/astronautical engineers	81,000	81,000	S	88,000	77,000	80,000
<30	55,000	55,000	S	62,000	55,000	55,000
30–39	75,000	78,000	S	75,000	S	S
40–49	84,000	84,000	S	86,000	80,000	S
50–59	90,000	89,000	S	99,000	S	S
60+	98,000	93,000	S	S	S	S
Chemical engineers	72,000	70,000	S	72,000	80,000	73,000
<30	58,000	55,000	S	60,000	S	60,000
30–39	70,000	68,000	S	72,000	S	71,000
40–49	81,000	90,000	S	85,000	S	80,000
50–59	95,000	100,000	S	96,000	S	S
60+	S	S	S	S	S	S
Civil/architectural/sanitary engineers	65,000	60,000	S	70,000	58,000	71,000
<30	48,000	48,000	S	48,000	47,000	47,000
30–39	62,000	58,000	S	66,000	57,000	70,000
40–49	72,000	65,000	S	75,000	62,000	76,000
50–59	75,000	75,000	S	79,000	60,000	82,000
60+	82,000	84,000	S	85,000	S	90,000
Electrical/computer hardware engineers	75,000	75,000	S	80,000	75,000	69,000
<30	60,000	60,000	S	60,000	60,000	60,000
30–39	72,000	72,000	S	75,000	75,000	69,000
40–49	80,000	84,000	S	85,000	78,000	70,000
50–59	80,000	81,000	S	83,000	86,000	73,000
60+	83,000	90,000	S	77,000	S	S
Industrial engineers	62,000	63,000	S	63,000	55,000	63,000
<30	50,000	52,000	S	50,000	45,000	50,000
30–39	60,000	60,000	S	62,000	S	60,000
40–49	70,000	72,000	S	68,000	S	75,000
50–59	65,000	70,000	S	63,000	S	74,000
60+	S	S	S	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Mechanical engineers	70,000	70,000	S	73,000	60,000	70,000
<30	55,000	55,000	S	57,000	48,000	60,000
30–39	67,000	65,000	S	70,000	64,000	70,000
40–49	78,000	79,000	S	80,000	71,000	72,000
50–59	82,000	85,000	S	85,000	70,000	75,000
60+	75,000	75,000	S	72,000	S	S
Postsecondary teachers-engineering	38,000	S	40,000	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other engineers	70,000	65,000	75,000	70,000	64,000	65,000
<30	50,000	48,000	S	51,000	55,000	50,000
30–39	66,000	70,000	S	67,000	64,000	60,000
40–49	75,000	70,000	S	78,000	78,000	73,000
50–59	75,000	70,000	S	75,000	65,000	75,000
60+	80,000	70,000	S	95,000	S	S
S&E-related occupations	50,000	50,000	42,000	56,000	57,000	50,000
<30	39,000	38,000	38,000	40,000	45,000	40,000
30–39	48,000	50,000	40,000	53,000	57,000	48,000
40–49	55,000	58,000	45,000	60,000	60,000	54,000
50–59	55,000	55,000	48,000	60,000	60,000	52,000
60+	51,000	53,000	40,000	65,000	51,000	48,000
Health-related occupations	50,000	48,000	48,000	50,000	45,000	50,000
<30	40,000	38,000	43,000	40,000	31,000	40,000
30–39	46,000	46,000	45,000	50,000	40,000	47,000
40–49	52,000	56,000	52,000	54,000	49,000	53,000
50–59	52,000	49,000	52,000	56,000	50,000	52,000
60+	49,000	40,000	S	56,000	S	48,000
S&E managers	87,000	92,000	S	87,000	100,000	80,000
<30	59,000	S	S	58,000	S	S
30–39	80,000	85,000	S	80,000	104,000	69,000
40–49	92,000	98,000	S	92,000	100,000	80,000
50–59	96,000	91,000	S	96,000	102,000	S
60+	90,000	S	S	90,000	S	S
S&E precollege teachers	38,000	38,000	38,000	37,000	44,000	35,000
<30	35,000	32,000	35,000	35,000	S	S
30–39	36,000	37,000	36,000	35,000	S	30,000
40–49	40,000	40,000	40,000	41,000	39,000	S
50–59	45,000	46,000	43,000	40,000	45,000	S
60+	36,000	S	36,000	S	S	S
S&E technicians/technologists	55,000	52,000	58,000	60,000	60,000	48,000
<30	40,000	38,000	S	44,000	45,000	40,000
30–39	55,000	55,000	S	65,000	61,000	45,000
40–49	60,000	55,000	S	60,000	62,000	52,000
50–59	60,000	60,000	S	62,000	69,000	48,000
60+	59,000	70,000	S	60,000	57,000	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other S&E-related occupations	60,000	57,000	S	65,000	50,000	57,000
<30	49,000	50,000	S	49,000	55,000	S
30–39	55,000	52,000	S	57,000	S	58,000
40–49	75,000	66,000	S	75,000	S	80,000
50–59	60,000	79,000	S	70,000	S	48,000
60+	70,000	S	S	S	S	S
Non-S&E occupations	48,000	52,000	34,000	50,000	42,000	41,000
<30	33,000	37,000	27,000	35,000	32,000	30,000
30–39	50,000	60,000	35,000	53,000	44,000	42,000
40–49	55,000	60,000	34,000	60,000	46,000	50,000
50–59	50,000	55,000	40,000	55,000	40,000	45,000
60+	46,000	50,000	50,000	50,000	40,000	40,000
Art/humanities/related occupations	50,000	52,000	S	49,000	40,000	45,000
<30	30,000	S	S	29,000	S	31,000
30–39	57,000	S	S	58,000	S	60,000
40–49	52,000	S	S	52,000	S	S
50–59	43,000	S	S	40,000	S	40,000
60+	S	S	S	S	S	S
Management-related occupations	57,000	58,000	66,000	57,000	49,000	60,000
<30	46,000	50,000	S	46,000	42,000	46,000
30–39	58,000	65,000	S	56,000	41,000	56,000
40–49	62,000	65,000	S	64,000	65,000	70,000
50–59	60,000	53,000	S	60,000	62,000	65,000
60+	56,000	S	S	50,000	S	S
Non-S&E managers	95,000	100,000	68,000	95,000	80,000	92,000
<30	60,000	S	S	60,000	S	S
30–39	80,000	83,000	S	82,000	S	80,000
40–49	100,000	100,000	S	100,000	99,000	103,000
50–59	96,000	111,000	S	96,000	S	95,000
60+	100,000	S	S	100,000	S	S
Non-S&E postsecondary teachers	43,000	S	42,000	46,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Non-S&E precollege/other teachers	31,000	31,000	32,000	32,000	25,000	31,000
<30	28,000	30,000	28,000	27,000	S	S
30–39	32,000	35,000	32,000	32,000	S	S
40–49	31,000	S	31,000	34,000	S	S
50–59	37,000	S	37,000	40,000	S	S
60+	S	S	S	S	S	S
Sales/marketing occupations	55,000	65,000	63,000	55,000	60,000	50,000
<30	41,000	46,000	S	41,000	52,000	45,000
30–39	60,000	75,000	S	60,000	60,000	65,000
40–49	65,000	80,000	S	65,000	75,000	65,000
50–59	60,000	62,000	S	60,000	S	46,000
60+	50,000	S	S	50,000	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Social services/related occupations	31,000	30,000	30,000	33,000	30,000	30,000
<30	28,000	30,000	25,000	29,000	S	27,000
30–39	32,000	S	38,000	35,000	S	32,000
40–49	34,000	S	S	35,000	S	34,000
50–59	38,000	S	S	42,000	S	35,000
60+	S	S	S	S	S	S
Other non-S&E occupations	40,000	44,000	36,000	40,000	40,000	40,000
<30	30,000	32,000	28,000	30,000	28,000	29,000
30–39	40,000	60,000	40,000	41,000	43,000	40,000
40–49	41,000	45,000	38,000	41,000	40,000	45,000
50–59	42,000	45,000	40,000	45,000	40,000	42,000
60+	39,000	45,000	S	40,000	S	38,000
Master's degrees, all occupations	63,000	70,000	48,000	70,000	72,000	54,000
<30	45,000	48,000	38,000	46,000	56,000	42,000
30–39	62,000	68,000	43,000	70,000	73,000	50,000
40–49	70,000	75,000	50,000	78,000	78,000	60,000
50–59	65,000	75,000	53,000	72,000	70,000	56,000
60+	62,000	75,000	51,000	65,000	68,000	55,000
S&E occupations	73,000	75,000	48,000	78,000	75,000	65,000
<30	52,000	52,000	30,000	54,000	60,000	45,000
30–39	70,000	70,000	41,000	75,000	75,000	60,000
40–49	80,000	80,000	48,000	85,000	82,000	72,000
50–59	78,000	82,000	57,000	78,000	80,000	68,000
60+	79,000	90,000	52,000	82,000	76,000	70,000
Scientists	70,000	70,000	47,000	73,000	75,000	58,000
<30	50,000	49,000	28,000	50,000	62,000	40,000
30–39	69,000	68,000	40,000	75,000	75,000	55,000
40–49	75,000	75,000	48,000	80,000	81,000	65,000
50–59	70,000	80,000	54,000	70,000	75,000	60,000
60+	70,000	90,000	50,000	78,000	70,000	68,000
Biological/agricultural/other life scientists	49,000	50,000	42,000	54,000	42,000	58,000
<30	38,000	38,000	S	38,000	S	S
30–39	42,000	42,000	S	56,000	S	65,000
40–49	54,000	54,000	S	56,000	S	50,000
50–59	54,000	60,000	S	52,000	S	51,000
60+	70,000	S	S	S	S	S
Agricultural/food scientists	47,000	47,000	S	54,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Biological/medical scientists	54,000	52,000	S	62,000	48,000	64,000
<30	40,000	39,000	S	S	S	S
30–39	48,000	45,000	S	68,000	S	65,000
40–49	60,000	60,000	S	62,000	S	S
50–59	61,000	61,000	S	61,000	S	S
60+	S	S	S	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Environmental life scientists	42,000	46,000	S	42,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	40,000	36,000	43,000	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Computer/mathematical scientists	77,000	80,000	50,000	80,000	76,000	72,000
<30	65,000	68,000	39,000	62,000	65,000	55,000
30–39	76,000	77,000	40,000	80,000	76,000	71,000
40–49	82,000	82,000	54,000	88,000	82,000	78,000
50–59	80,000	86,000	60,000	75,000	75,000	79,000
60+	76,000	99,000	48,000	82,000	71,000	S
Computer/information scientists	80,000	80,000	62,000	80,000	77,000	71,000
<30	65,000	70,000	S	62,000	65,000	S
30–39	78,000	78,000	S	82,000	76,000	70,000
40–49	83,000	84,000	S	90,000	83,000	77,000
50–59	80,000	87,000	S	75,000	78,000	72,000
60+	80,000	100,000	S	88,000	70,000	S
Mathematical scientists	72,000	71,000	S	75,000	73,000	75,000
<30	55,000	55,000	S	S	S	S
30–39	72,000	73,000	S	75,000	73,000	S
40–49	76,000	77,000	S	S	S	S
50–59	82,000	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	45,000	41,000	45,000	47,000	48,000	S
<30	S	S	S	S	S	S
30–39	40,000	S	40,000	S	S	S
40–49	48,000	S	48,000	S	S	S
50–59	57,000	S	57,000	S	S	S
60+	50,000	S	50,000	S	S	S
Physical/related scientists	66,000	66,000	45,000	69,000	65,000	61,000
<30	42,000	42,000	23,000	S	42,000	S
30–39	60,000	58,000	S	62,000	60,000	48,000
40–49	70,000	75,000	S	70,000	74,000	65,000
50–59	82,000	82,000	S	82,000	S	66,000
60+	79,000	S	S	S	S	S
Chemists, except biochemists	66,000	66,000	S	66,000	S	60,000
<30	52,000	52,000	S	S	S	S
30–39	60,000	60,000	S	60,000	S	S
40–49	66,000	80,000	S	66,000	S	S
50–59	76,000	82,000	S	S	S	S
60+	S	S	S	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Earth/atmospheric/ocean scientists	75,000	75,000	S	73,000	80,000	66,000
<30	46,000	46,000	S	S	S	S
30–39	55,000	44,000	S	S	S	S
40–49	75,000	75,000	S	70,000	S	S
50–59	85,000	100,000	S	S	S	S
60+	S	S	S	S	S	S
Physicists/astronomers	68,000	54,000	S	S	S	S
<30	19,000	19,000	S	S	S	S
30–39	61,000	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-physical/related sciences	45,000	43,000	45,000	S	S	S
<30	20,000	S	20,000	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other physical/related scientists	65,000	66,000	S	66,000	S	S
<30	S	S	S	S	S	S
30–39	66,000	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Social/related scientists	53,000	50,000	45,000	60,000	52,000	50,000
<30	40,000	37,000	S	40,000	S	40,000
30–39	50,000	44,000	44,000	58,000	S	45,000
40–49	62,000	65,000	48,000	75,000	S	52,000
50–59	60,000	68,000	50,000	60,000	S	57,000
60+	63,000	55,000	S	80,000	S	60,000
Economists	89,000	81,000	S	100,000	S	S
<30	S	S	S	S	S	S
30–39	100,000	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Political/related scientists	S	S	S	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	44,000	40,000	43,000	S	S	50,000
<30	S	S	S	S	S	S
30–39	38,000	S	38,000	S	S	S
40–49	48,000	S	48,000	S	S	S
50–59	50,000	S	50,000	S	S	S
60+	S	S	S	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Psychologists	48,000	42,000	48,000	45,000	S	49,000
<30	39,000	30,000	S	S	S	40,000
30–39	44,000	39,000	S	45,000	S	44,000
40–49	50,000	S	S	45,000	S	50,000
50–59	55,000	S	S	53,000	S	57,000
60+	55,000	S	S	S	S	55,000
Sociologists/anthropologists	50,000	50,000	S	52,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other social/related scientists	65,000	55,000	S	75,000	S	56,000
<30	40,000	38,000	S	40,000	S	S
30–39	55,000	55,000	S	75,000	S	S
40–49	75,000	65,000	S	80,000	S	S
50–59	85,000	S	S	82,000	S	S
60+	S	S	S	S	S	S
Engineers	80,000	79,000	66,000	83,000	78,000	79,000
<30	58,000	58,000	S	60,000	58,000	55,000
30–39	75,000	74,000	S	75,000	75,000	72,000
40–49	87,000	88,000	72,000	90,000	84,000	85,000
50–59	85,000	85,000	S	86,000	88,000	85,000
60+	85,000	91,000	S	85,000	79,000	82,000
Aerospace/aeronautical/astronautical engineers	82,000	80,000	S	88,000	82,000	80,000
<30	59,000	59,000	S	S	58,000	S
30–39	74,000	72,000	S	78,000	S	S
40–49	91,000	85,000	S	93,000	S	S
50–59	90,000	90,000	S	85,000	S	S
60+	95,000	99,000	S	S	S	S
Chemical engineers	82,000	80,000	S	85,000	89,000	80,000
<30	65,000	62,000	S	S	S	S
30–39	73,000	71,000	S	S	S	S
40–49	97,000	96,000	S	S	S	S
50–59	89,000	90,000	S	S	S	S
60+	S	S	S	S	S	S
Civil/architectural/sanitary engineers	72,000	67,000	S	75,000	63,000	75,000
<30	48,000	46,000	S	50,000	46,000	S
30–39	63,000	62,000	S	64,000	63,000	70,000
40–49	80,000	77,000	S	82,000	S	80,000
50–59	87,000	80,000	S	90,000	S	90,000
60+	75,000	68,000	S	75,000	S	S
Electrical/computer hardware engineers	86,000	85,000	S	91,000	84,000	83,000
<30	70,000	70,000	S	80,000	66,000	S
30–39	82,000	82,000	S	84,000	84,000	70,000
40–49	99,000	97,000	S	100,000	90,000	S
50–59	87,000	85,000	S	88,000	81,000	S
60+	94,000	97,000	S	85,000	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Industrial engineers	72,000	70,000	S	75,000	66,000	73,000
<30	59,000	59,000	S	55,000	S	S
30–39	62,000	65,000	S	78,000	S	S
40–49	78,000	78,000	S	82,000	S	S
50–59	72,000	S	S	S	S	S
60+	S	S	S	S	S	S
Mechanical engineers	78,000	78,000	S	83,000	76,000	75,000
<30	62,000	62,000	S	65,000	S	S
30–39	75,000	74,000	S	79,000	71,000	S
40–49	85,000	85,000	S	85,000	73,000	83,000
50–59	80,000	80,000	S	78,000	S	S
60+	82,000	82,000	S	S	S	S
Postsecondary teachers-engineering	65,000	65,000	65,000	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other engineers	80,000	80,000	S	83,000	70,000	83,000
<30	52,000	52,000	S	52,000	S	55,000
30–39	72,000	70,000	S	72,000	65,000	70,000
40–49	87,000	93,000	S	90,000	S	93,000
50–59	87,000	85,000	S	89,000	S	90,000
60+	86,000	93,000	S	90,000	S	S
S&E-related occupations	56,000	56,000	50,000	63,000	65,000	58,000
<30	42,000	41,000	38,000	40,000	42,000	47,000
30–39	50,000	52,000	43,000	55,000	68,000	53,000
40–49	61,000	63,000	51,000	69,000	65,000	63,000
50–59	60,000	65,000	54,000	70,000	68,000	60,000
60+	58,000	55,000	50,000	65,000	62,000	67,000
Health-related occupations	56,000	55,000	55,000	60,000	65,000	56,000
<30	46,000	45,000	40,000	47,000	S	47,000
30–39	52,000	50,000	50,000	50,000	S	50,000
40–49	63,000	62,000	60,000	67,000	S	63,000
50–59	60,000	60,000	57,000	61,000	S	60,000
60+	57,000	S	50,000	55,000	S	57,000
S&E managers	95,000	96,000	S	95,000	100,000	89,000
<30	S	S	S	S	S	S
30–39	87,000	87,000	S	89,000	94,000	80,000
40–49	93,000	105,000	S	93,000	100,000	94,000
50–59	100,000	100,000	S	100,000	125,000	98,000
60+	86,000	S	S	86,000	S	S
S&E precollege teachers	48,000	46,000	48,000	48,000	51,000	50,000
<30	37,000	39,000	37,000	36,000	S	S
30–39	41,000	40,000	41,000	40,000	S	S
40–49	49,000	44,000	48,000	48,000	42,000	52,000
50–59	53,000	55,000	53,000	53,000	54,000	57,000
60+	51,000	S	50,000	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
S&E technicians/technologists	63,000	62,000	S	70,000	70,000	48,000
<30	45,000	42,000	S	S	S	S
30–39	65,000	65,000	S	77,000	72,000	S
40–49	63,000	65,000	S	63,000	65,000	S
50–59	65,000	65,000	S	73,000	70,000	S
60+	S	S	S	S	S	S
Other S&E-related occupations	62,000	57,000	S	68,000	57,000	75,000
<30	S	S	S	S	S	S
30–39	55,000	46,000	S	52,000	S	S
40–49	70,000	65,000	S	69,000	S	80,000
50–59	80,000	90,000	S	105,000	S	S
60+	S	S	S	S	S	S
Non-S&E occupations	60,000	62,000	48,000	70,000	61,000	48,000
<30	43,000	45,000	42,000	44,000	47,000	38,000
30–39	60,000	70,000	43,000	70,000	63,000	45,000
40–49	65,000	64,000	50,000	75,000	65,000	51,000
50–59	64,000	65,000	52,000	72,000	61,000	50,000
60+	54,000	65,000	53,000	60,000	65,000	45,000
Art/humanities/related occupations	50,000	57,000	S	50,000	S	41,000
<30	42,000	S	S	S	S	S
30–39	40,000	S	S	40,000	S	S
40–49	53,000	S	S	S	S	S
50–59	56,000	S	S	S	S	S
60+	S	S	S	S	S	S
Management-related occupations	75,000	75,000	60,000	75,000	66,000	71,000
<30	50,000	50,000	S	50,000	S	50,000
30–39	75,000	75,000	S	76,000	66,000	68,000
40–49	80,000	75,000	S	80,000	80,000	82,000
50–59	75,000	70,000	S	75,000	65,000	75,000
60+	46,000	S	S	48,000	S	S
Non-S&E managers	100,000	100,000	80,000	100,000	96,000	100,000
<30	65,000	S	S	60,000	S	S
30–39	95,000	99,000	S	95,000	S	110,000
40–49	105,000	106,000	S	105,000	S	104,000
50–59	95,000	100,000	S	95,000	S	100,000
60+	95,000	S	S	96,000	S	S
Non-S&E postsecondary teachers	44,000	45,000	44,000	46,000	S	40,000
<30	S	S	S	S	S	S
30–39	40,000	S	44,000	S	S	S
40–49	40,000	S	40,000	40,000	S	S
50–59	44,000	48,000	44,000	59,000	S	S
60+	56,000	S	60,000	S	S	S
Non-S&E precollege/other teachers	49,000	47,000	48,000	50,000	51,000	46,000
<30	42,000	S	42,000	40,000	S	S
30–39	42,000	39,000	42,000	43,000	S	S
40–49	50,000	42,000	50,000	50,000	S	S
50–59	53,000	S	53,000	60,000	S	52,000
60+	55,000	S	60,000	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Sales/marketing occupations	75,000	100,000	S	75,000	73,000	55,000
<30	55,000	S	S	55,000	S	S
30–39	90,000	112,000	S	90,000	S	80,000
40–49	80,000	80,000	S	80,000	S	50,000
50–59	62,000	100,000	S	63,000	S	59,000
60+	40,000	S	S	36,000	S	S
Social services/related occupations	43,000	42,000	44,000	43,000	40,000	43,000
<30	36,000	S	36,000	38,000	S	36,000
30–39	41,000	42,000	41,000	42,000	S	40,000
40–49	44,000	44,000	47,000	43,000	S	43,000
50–59	48,000	43,000	49,000	48,000	S	48,000
60+	48,000	S	S	47,000	S	49,000
Other non-S&E occupations	47,000	50,000	48,000	53,000	54,000	42,000
<30	32,000	32,000	S	30,000	S	33,000
30–39	49,000	55,000	53,000	53,000	52,000	43,000
40–49	50,000	50,000	60,000	60,000	65,000	44,000
50–59	49,000	61,000	40,000	60,000	54,000	40,000
60+	44,000	S	S	48,000	S	40,000
Doctorate degrees, all occupations	77,000	78,000	63,000	89,000	80,000	72,000
<30	44,000	40,000	40,000	50,000	61,000	48,000
30–39	63,000	63,000	52,000	75,000	72,000	63,000
40–49	79,000	80,000	62,000	88,000	85,000	72,000
50–59	85,000	88,000	67,000	97,000	83,000	76,000
60+	90,000	95,000	75,000	100,000	84,000	70,000
S&E occupations	75,000	77,000	65,000	80,000	82,000	74,000
<30	40,000	40,000	40,000	54,000	61,000	40,000
30–39	62,000	62,000	52,000	72,000	77,000	61,000
40–49	76,000	80,000	62,000	82,000	85,000	72,000
50–59	84,000	89,000	71,000	87,000	86,000	78,000
60+	90,000	95,000	81,000	91,000	86,000	80,000
Scientists	72,000	73,000	62,000	78,000	80,000	71,000
<30	40,000	40,000	40,000	50,000	61,000	S
30–39	58,000	59,000	50,000	67,000	75,000	60,000
40–49	73,000	75,000	60,000	78,000	83,000	70,000
50–59	80,000	86,000	70,000	85,000	82,000	75,000
60+	87,000	92,000	80,000	88,000	82,000	80,000
Biological/agricultural/other life scientists	67,000	68,000	65,000	77,000	55,000	70,000
<30	34,000	34,000	S	S	S	S
30–39	48,000	47,000	49,000	61,000	45,000	53,000
40–49	71,000	72,000	60,000	80,000	54,000	63,000
50–59	81,000	85,000	70,000	90,000	75,000	80,000
60+	90,000	92,000	83,000	95,000	S	84,000
Agricultural/food scientists	72,000	72,000	S	75,000	S	65,000
<30	S	S	S	S	S	S
30–39	59,000	56,000	S	69,000	S	S
40–49	73,000	72,000	S	80,000	S	57,000
50–59	88,000	90,000	S	90,000	S	S
60+	72,000	72,000	S	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Biological/medical scientists	67,000	65,000	51,000	80,000	53,000	74,000
<30	34,000	34,000	S	S	S	S
30–39	45,000	45,000	34,000	64,000	44,000	54,000
40–49	75,000	75,000	45,000	83,000	53,000	66,000
50–59	90,000	90,000	81,000	98,000	80,000	95,000
60+	98,000	100,000	S	105,000	S	105,000
Environmental life scientists	63,000	64,000	S	65,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	62,000	63,000	S	S	S	S
50–59	73,000	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	66,000	70,000	65,000	65,000	S	60,000
<30	S	S	S	S	S	S
30–39	51,000	56,000	50,000	60,000	S	S
40–49	63,000	68,000	61,000	60,000	S	S
50–59	70,000	75,000	70,000	73,000	S	56,000
60+	84,000	90,000	80,000	87,000	S	S
Computer/mathematical scientists	79,000	83,000	62,000	84,000	84,000	72,000
<30	40,000	40,000	S	S	S	S
30–39	75,000	75,000	54,000	84,000	82,000	65,000
40–49	83,000	90,000	64,000	85,000	86,000	68,000
50–59	81,000	90,000	70,000	78,000	85,000	78,000
60+	82,000	90,000	72,000	87,000	82,000	78,000
Computer/information scientists	87,000	92,000	S	85,000	85,000	72,000
<30	S	S	S	S	S	S
30–39	82,000	84,000	S	85,000	84,000	S
40–49	92,000	100,000	S	82,000	89,000	75,000
50–59	89,000	100,000	S	79,000	86,000	S
60+	87,000	87,000	S	87,000	82,000	S
Mathematical scientists	88,000	88,000	120,000	100,000	83,000	87,000
<30	S	S	S	S	S	S
30–39	75,000	76,000	S	S	76,000	S
40–49	90,000	92,000	S	100,000	86,000	S
50–59	102,000	102,000	S	110,000	86,000	S
60+	110,000	110,000	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	62,000	65,000	61,000	68,000	65,000	60,000
<30	S	S	S	S	S	S
30–39	56,000	57,000	55,000	62,000	S	S
40–49	66,000	75,000	64,000	62,000	S	S
50–59	70,000	76,000	70,000	64,000	61,000	S
60+	73,000	85,000	71,000	76,000	S	S
Physical/related scientists	79,000	80,000	63,000	86,000	78,000	78,000
<30	52,000	54,000	S	S	S	S
30–39	65,000	66,000	50,000	75,000	56,000	67,000
40–49	80,000	82,000	64,000	86,000	85,000	80,000
50–59	90,000	95,000	70,000	95,000	90,000	80,000
60+	95,000	100,000	85,000	100,000	85,000	93,000

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Chemists, except biochemists	85,000	85,000	S	91,000	74,000	81,000
<30	61,000	61,000	S	S	S	S
30–39	77,000	78,000	S	80,000	S	67,000
40–49	90,000	90,000	S	95,000	S	85,000
50–59	100,000	101,000	S	100,000	S	78,000
60+	95,000	95,000	S	100,000	S	S
Earth/atmospheric/ocean scientists	80,000	80,000	S	84,000	73,000	72,000
<30	S	S	S	S	S	S
30–39	63,000	63,000	S	71,000	S	S
40–49	80,000	80,000	S	82,000	73,000	S
50–59	90,000	100,000	S	88,000	90,000	S
60+	110,000	109,000	S	S	S	S
Physicists/astronomers	90,000	88,000	S	102,000	90,000	95,000
<30	S	S	S	S	S	S
30–39	65,000	64,000	S	80,000	55,000	S
40–49	100,000	100,000	S	100,000	102,000	S
50–59	100,000	100,000	S	110,000	100,000	S
60+	115,000	115,000	S	124,000	S	S
Postsecondary teachers-physical/related sciences	64,000	65,000	63,000	65,000	60,000	62,000
<30	S	S	S	S	S	S
30–39	51,000	53,000	50,000	46,000	S	S
40–49	64,000	65,000	64,000	62,000	S	53,000
50–59	73,000	80,000	72,000	65,000	S	S
60+	85,000	93,000	85,000	84,000	S	S
Other physical/related scientists	80,000	80,000	S	80,000	S	S
<30	S	S	S	S	S	S
30–39	60,000	60,000	S	S	S	S
40–49	80,000	80,000	S	S	S	S
50–59	100,000	S	S	S	S	S
60+	S	S	S	S	S	S
Social/related scientists	67,000	68,000	61,000	70,000	69,000	70,000
<30	53,000	55,000	S	S	S	S
30–39	55,000	56,000	50,000	61,000	65,000	57,000
40–49	65,000	64,000	58,000	67,000	75,000	70,000
50–59	74,000	78,000	69,000	80,000	64,000	75,000
60+	80,000	85,000	80,000	80,000	S	73,000
Economists	105,000	100,000	S	124,000	90,000	135,000
<30	S	S	S	S	S	S
30–39	98,000	98,000	S	110,000	S	S
40–49	112,000	105,000	S	124,000	S	140,000
50–59	130,000	130,000	S	130,000	S	S
60+	123,000	S	S	S	S	S
Political/related scientists	75,000	75,000	S	84,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Postsecondary teachers-social/related sciences	61,000	63,000	60,000	62,000	S	60,000
<30	S	S	S	S	S	S
30–39	50,000	51,000	50,000	50,000	S	46,000
40–49	57,000	60,000	56,000	54,000	S	62,000
50–59	67,000	72,000	67,000	73,000	S	61,000
60+	78,000	81,000	79,000	72,000	S	72,000
Psychologists	70,000	66,000	81,000	70,000	71,000	72,000
<30	S	S	S	S	S	S
30–39	58,000	58,000	S	60,000	S	59,000
40–49	72,000	75,000	72,000	70,000	S	72,000
50–59	80,000	86,000	90,000	80,000	S	79,000
60+	72,000	81,000	S	68,000	S	70,000
Sociologists/anthropologists	63,000	62,000	S	75,000	S	68,000
<30	S	S	S	S	S	S
30–39	62,000	62,000	S	S	S	S
40–49	61,000	62,000	S	61,000	S	S
50–59	73,000	73,000	S	84,000	S	S
60+	S	S	S	S	S	S
Other social/related scientists	70,000	70,000	S	70,000	S	69,000
<30	S	S	S	S	S	S
30–39	61,000	65,000	S	65,000	S	S
40–49	68,000	68,000	S	68,000	S	S
50–59	79,000	80,000	S	77,000	S	S
60+	S	S	S	S	S	S
Engineers	90,000	90,000	80,000	100,000	90,000	85,000
<30	68,000	68,000	S	S	S	S
30–39	81,000	82,000	66,000	87,000	84,000	82,000
40–49	90,000	91,000	77,000	100,000	90,000	83,000
50–59	100,000	100,000	88,000	100,000	102,000	100,000
60+	106,000	105,000	97,000	120,000	120,000	100,000
Aerospace/aeronautical/astronautical engineers	96,000	95,000	S	105,000	100,000	S
<30	S	S	S	S	S	S
30–39	85,000	85,000	S	S	S	S
40–49	96,000	100,000	S	S	S	S
50–59	107,000	105,000	S	S	S	S
60+	120,000	120,000	S	S	S	S
Chemical engineers	90,000	90,000	S	100,000	95,000	80,000
<30	S	S	S	S	S	S
30–39	83,000	83,000	S	90,000	S	S
40–49	100,000	100,000	S	109,000	S	S
50–59	100,000	100,000	S	S	S	S
60+	100,000	S	S	S	S	S
Civil/architectural/sanitary engineers	78,000	76,000	S	85,000	77,000	75,000
<30	S	S	S	S	S	S
30–39	63,000	62,000	S	S	S	S
40–49	81,000	78,000	S	96,000	S	S
50–59	79,000	80,000	S	S	S	S
60+	95,000	S	S	S	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Electrical/computer hardware engineers	102,000	102,000	S	112,000	100,000	100,000
<30	S	S	S	S	S	S
30–39	95,000	95,000	S	100,000	95,000	S
40–49	110,000	110,000	S	113,000	105,000	100,000
50–59	120,000	120,000	S	120,000	104,000	S
60+	110,000	110,000	S	S	S	S
Industrial engineers	73,000	60,000	S	95,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Mechanical engineers	90,000	90,000	S	97,000	85,000	100,000
<30	S	S	S	S	S	S
30–39	80,000	80,000	S	87,000	S	S
40–49	90,000	90,000	S	91,000	S	S
50–59	105,000	106,000	S	S	S	S
60+	118,000	112,000	S	S	S	S
Postsecondary teachers-engineering	81,000	82,000	80,000	85,000	67,000	80,000
<30	S	S	S	S	S	S
30–39	68,000	68,000	66,000	65,000	S	S
40–49	78,000	81,000	78,000	87,000	S	S
50–59	90,000	91,000	87,000	95,000	S	S
60+	97,000	97,000	95,000	S	S	S
Other engineers	85,000	85,000	S	95,000	85,000	88,000
<30	S	S	S	S	S	S
30–39	80,000	80,000	S	82,000	70,000	88,000
40–49	88,000	88,000	S	98,000	85,000	83,000
50–59	102,000	103,000	S	100,000	105,000	89,000
60+	107,000	105,000	S	110,000	S	123,000
S&E-related occupations	80,000	89,000	59,000	98,000	55,000	75,000
<30	48,000	S	S	S	S	S
30–39	55,000	67,000	55,000	70,000	55,000	57,000
40–49	85,000	100,000	61,000	100,000	70,000	75,000
50–59	80,000	83,000	59,000	113,000	55,000	80,000
60+	90,000	90,000	78,000	90,000	70,000	100,000
Health-related occupations	72,000	72,000	68,000	72,000	48,000	72,000
<30	S	S	S	S	S	S
30–39	51,000	53,000	52,000	44,000	S	49,000
40–49	72,000	81,000	66,000	72,000	S	72,000
50–59	75,000	72,000	72,000	89,000	S	76,000
60+	90,000	100,000	90,000	72,000	S	110,000
S&E managers	120,000	125,000	S	120,000	100,000	105,000
<30	S	S	S	S	S	S
30–39	103,000	105,000	S	101,000	S	S
40–49	120,000	125,000	S	120,000	S	98,000
50–59	120,000	130,000	S	120,000	S	108,000
60+	140,000	140,000	S	144,000	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
S&E precollege teachers	52,000	42,000	50,000	50,000	S	S
<30	S	S	S	S	S	S
30–39	55,000	S	55,000	S	S	S
40–49	51,000	S	51,000	S	S	S
50–59	42,000	S	42,000	S	S	S
60+	S	S	S	S	S	S
S&E technicians/technologists	62,000	59,000	S	61,000	70,000	S
<30	S	S	S	S	S	S
30–39	61,000	60,000	S	S	70,000	S
40–49	72,000	78,000	S	S	62,000	S
50–59	70,000	S	S	S	S	S
60+	S	S	S	S	S	S
Other S&E-related occupations	90,000	S	S	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Non-S&E occupations	85,000	80,000	63,000	97,000	85,000	69,000
<30	S	S	S	S	S	S
30–39	77,000	71,000	53,000	87,000	85,000	70,000
40–49	81,000	85,000	60,000	98,000	85,000	64,000
50–59	90,000	80,000	65,000	100,000	80,000	71,000
60+	83,000	100,000	62,000	102,000	56,000	63,000
Art/humanities/related occupations	70,000	95,000	S	61,000	S	65,000
<30	S	S	S	S	S	S
30–39	65,000	S	S	65,000	S	63,000
40–49	10,000	S	S	10,000	S	10,000
50–59	100,000	S	S	80,000	S	100,000
60+	80,000	S	S	S	S	78,000
Management-related occupations	87,000	90,000	53,000	87,000	80,000	75,000
<30	S	S	S	S	S	S
30–39	87,000	90,000	S	87,000	87,000	85,000
40–49	95,000	100,000	S	90,000	S	95,000
50–59	93,000	86,000	S	90,000	S	75,000
60+	50,000	S	S	80,000	S	40,000
Non-S&E managers	115,000	125,000	80,000	114,000	100,000	112,000
<30	S	S	S	S	S	S
30–39	98,000	105,000	S	98,000	S	98,000
40–49	114,000	115,000	S	115,000	S	97,000
50–59	120,000	140,000	86,000	120,000	S	116,000
60+	118,000	150,000	80,000	110,000	S	106,000
Non-S&E postsecondary teachers	65,000	65,000	65,000	66,000	S	55,000
<30	S	S	S	S	S	S
30–39	51,000	51,000	52,000	52,000	S	S
40–49	60,000	61,000	60,000	64,000	S	50,000
50–59	70,000	70,000	67,000	75,000	S	64,000
60+	68,000	84,000	68,000	66,000	S	S

TABLE 27. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Non-S&E precollege/other teachers	61,000	S	61,000	54,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	61,000	S	61,000	S	S	S
60+	S	S	S	S	S	S
Sales/marketing occupations	125,000	180,000	S	130,000	S	85,000
<30	S	S	S	S	S	S
30–39	80,000	S	S	80,000	S	S
40–49	154,000	180,000	S	155,000	S	S
50–59	123,000	S	S	130,000	S	93,000
60+	200,000	S	S	200,000	S	S
Social services/related occupations	51,000	S	50,000	63,000	S	40,000
<30	S	S	S	S	S	S
30–39	38,000	S	S	S	S	S
40–49	59,000	S	S	59,000	S	58,000
50–59	58,000	S	58,000	68,000	S	50,000
60+	40,000	S	S	S	S	40,000
Other non-S&E occupations	56,000	54,000	63,000	56,000	S	63,000
<30	S	S	S	S	S	S
30–39	61,000	70,000	S	61,000	S	55,000
40–49	52,000	S	S	56,000	S	93,000
50–59	60,000	S	S	70,000	S	70,000
60+	56,000	S	S	45,000	S	63,000

S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. Respondents may have provided multiple responses for work activity. Salaries are for principal job and are rounded to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
All degree levels and occupations[a]	60,000	45,000	56,000	63,000	70,000	70,000	68,000	68,000	65,000
Male	70,000	50,000	63,000	72,000	79,000	80,000	75,000	75,000	75,000
Female	49,000	40,000	48,000	53,000	54,000	55,000	54,000	50,000	45,000
S&E occupations	70,000	52,000	65,000	72,000	76,000	80,000	76,000	80,000	80,000
Male	72,000	55,000	67,000	75,000	80,000	83,000	80,000	80,000	85,000
Female	58,000	45,000	58,000	62,000	70,000	69,000	62,000	65,000	60,000
Scientists	65,000	49,000	62,000	70,000	75,000	76,000	72,000	73,000	79,000
Male	70,000	53,000	65,000	75,000	80,000	80,000	75,000	75,000	85,000
Female	56,000	43,000	54,000	60,000	70,000	66,000	62,000	65,000	61,000
Biological/agricultural/other life scientists	50,000	35,000	48,000	59,000	59,000	65,000	65,000	63,000	70,000
Male	53,000	37,000	48,000	60,000	58,000	65,000	68,000	63,000	80,000
Female	46,000	34,000	48,000	57,000	59,000	60,000	56,000	65,000	54,000
Agricultural/food scientists	48,000	38,000	43,000	52,000	56,000	48,000	39,000	68,000	50,000
Male	50,000	35,000	40,000	52,000	56,000	48,000	37,000	62,000	S
Female	46,000	38,000	46,000	50,000	S	S	S	S	S
Biological/medical scientists	50,000	35,000	50,000	60,000	64,000	69,000	65,000	63,000	72,000
Male	53,000	38,000	49,000	65,000	70,000	70,000	80,000	65,000	93,000
Female	46,000	34,000	51,000	58,000	60,000	61,000	60,000	56,000	S
Environmental life scientists	48,000	32,000	42,000	38,000	53,000	42,000	68,000	46,000	S
Male	48,000	32,000	42,000	38,000	53,000	42,000	68,000	46,000	S
Female	38,000	26,000	S	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	55,000	38,000	48,000	57,000	57,000	69,000	69,000	80,000	95,000
Male	60,000	38,000	50,000	59,000	56,000	70,000	70,000	81,000	95,000
Female	46,000	35,000	40,000	50,000	60,000	35,000	56,000	65,000	S
Computer/mathematical scientists	70,000	58,000	68,000	72,000	80,000	80,000	73,000	76,000	78,000
Male	74,000	60,000	70,000	75,000	81,000	84,000	77,000	80,000	83,000
Female	62,000	52,000	62,000	62,000	73,000	70,000	62,000	72,000	60,000
Computer/information scientists	70,000	59,000	70,000	72,000	80,000	80,000	72,000	80,000	79,000
Male	74,000	60,000	70,000	75,000	82,000	84,000	75,000	80,000	83,000
Female	63,000	54,000	65,000	62,000	75,000	70,000	62,000	73,000	60,000
Mathematical scientists	73,000	57,000	60,000	81,000	80,000	85,000	97,000	90,000	S
Male	80,000	60,000	72,000	95,000	92,000	80,000	100,000	108,000	S
Female	55,000	55,000	46,000	75,000	50,000	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	51,000	44,000	45,000	53,000	55,000	63,000	73,000	48,000	79,000
Male	55,000	50,000	44,000	54,000	60,000	70,000	66,000	53,000	85,000
Female	45,000	40,000	45,000	50,000	42,000	49,000	S	S	S
Physical/related scientists	60,000	42,000	54,000	65,000	70,000	76,000	70,000	66,000	79,000
Male	65,000	42,000	58,000	70,000	70,000	80,000	76,000	69,000	83,000
Female	47,000	42,000	50,000	49,000	70,000	54,000	60,000	60,000	S
Chemists, except biochemists	60,000	43,000	58,000	62,000	70,000	86,000	70,000	66,000	70,000
Male	67,000	45,000	64,000	75,000	70,000	90,000	80,000	66,000	70,000
Female	48,000	42,000	51,000	52,000	74,000	52,000	61,000	S	S
Earth/atmospheric/ocean scientists	64,000	41,000	59,000	68,000	65,000	74,000	70,000	76,000	90,000
Male	65,000	41,000	60,000	71,000	70,000	74,000	68,000	76,000	95,000

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Female	50,000	38,000	52,000	S	S	S	S	S	S
Physicists/astronomers	80,000	45,000	65,000	90,000	85,000	95,000	100,000	108,000	100,000
Male	84,000	46,000	65,000	90,000	87,000	95,000	100,000	110,000	101,000
Female	67,000	40,000	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	54,000	32,000	45,000	57,000	63,000	70,000	70,000	76,000	80,000
Male	60,000	42,000	48,000	60,000	63,000	75,000	70,000	78,000	80,000
Female	45,000	28,000	45,000	51,000	70,000	S	S	S	S
Other physical/related scientists	48,000	40,000	48,000	52,000	70,000	46,000	56,000	S	S
Male	51,000	40,000	52,000	52,000	S	36,000	S	S	S
Female	46,000	42,000	40,000	S	S	S	S	S	S
Social/related scientists	56,000	41,000	50,000	60,000	73,000	65,000	75,000	81,000	80,000
Male	63,000	43,000	51,000	70,000	78,000	70,000	80,000	89,000	97,000
Female	50,000	41,000	48,000	58,000	65,000	60,000	68,000	50,000	66,000
Economists	87,000	60,000	100,000	89,000	105,000	62,000	90,000	90,000	S
Male	89,000	60,000	120,000	89,000	79,000	60,000	99,000	90,000	S
Female	77,000	70,000	100,000	S	105,000	S	S	S	S
Political/related scientists	43,000	40,000	S	S	S	S	S	S	S
Male	52,000	S	S	S	S	S	S	S	S
Female	40,000	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	56,000	44,000	48,000	55,000	64,000	68,000	71,000	75,000	78,000
Male	60,000	44,000	50,000	53,000	68,000	71,000	75,000	80,000	76,000
Female	51,000	44,000	46,000	58,000	60,000	61,000	65,000	66,000	S
Psychologists	54,000	41,000	50,000	61,000	65,000	63,000	63,000	61,000	69,000
Male	60,000	42,000	50,000	78,000	73,000	65,000	70,000	65,000	92,000
Female	50,000	41,000	50,000	60,000	60,000	60,000	54,000	57,000	S
Sociologists/anthropologists	50,000	36,000	41,000	50,000	65,000	75,000	75,000	S	S
Male	50,000	32,000	45,000	S	73,000	S	S	S	S
Female	49,000	49,000	39,000	S	S	S	S	S	S
Other social/related scientists	55,000	40,000	47,000	60,000	80,000	70,000	84,000	95,000	S
Male	64,000	40,000	50,000	70,000	90,000	80,000	84,000	S	S
Female	50,000	40,000	45,000	55,000	75,000	S	100,000	S	S
Engineers	74,000	59,000	67,000	75,000	80,000	85,000	82,000	85,000	84,000
Male	75,000	60,000	68,000	75,000	80,000	85,000	84,000	86,000	85,000
Female	65,000	54,000	65,000	75,000	72,000	80,000	70,000	72,000	S
Aerospace/aeronautical/astronautical engineers	82,000	61,000	80,000	85,000	81,000	90,000	98,000	98,000	100,000
Male	83,000	62,000	80,000	85,000	81,000	90,000	98,000	100,000	100,000
Female	82,000	61,000	S	S	S	S	S	S	S
Chemical engineers	78,000	60,000	67,000	87,000	80,000	92,000	99,000	100,000	100,000
Male	80,000	60,000	69,000	87,000	80,000	94,000	100,000	100,000	100,000
Female	67,000	60,000	64,000	90,000	S	S	S	S	S
Civil/architectural/sanitary engineers	68,000	48,000	61,000	70,000	70,000	75,000	81,000	82,000	80,000
Male	70,000	50,000	62,000	70,000	72,000	77,000	81,000	82,000	81,000
Female	55,000	45,000	59,000	70,000	68,000	60,000	S	S	S

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Electrical/computer hardware engineers	80,000	64,000	75,000	82,000	86,000	90,000	86,000	88,000	90,000
Male	80,000	64,000	75,000	84,000	86,000	90,000	86,000	90,000	88,000
Female	80,000	66,000	85,000	73,000	93,000	S	S	S	S
Industrial engineers	65,000	54,000	63,000	67,000	70,000	89,000	67,000	65,000	S
Male	65,000	55,000	64,000	67,000	70,000	94,000	68,000	69,000	S
Female	60,000	53,000	60,000	S	S	S	S	S	S
Mechanical engineers	72,000	60,000	66,000	75,000	80,000	82,000	84,000	86,000	80,000
Male	73,000	60,000	66,000	75,000	80,000	83,000	84,000	86,000	80,000
Female	65,000	56,000	65,000	78,000	S	S	S	S	S
Postsecondary teachers-engineering	72,000	58,000	64,000	72,000	81,000	90,000	90,000	86,000	78,000
Male	73,000	60,000	62,000	75,000	81,000	90,000	93,000	86,000	78,000
Female	61,000	45,000	64,000	69,000	S	S	S	S	S
Other engineers	72,000	56,000	63,000	71,000	78,000	84,000	80,000	85,000	80,000
Male	75,000	58,000	63,000	72,000	80,000	85,000	80,000	85,000	80,000
Female	60,000	51,000	64,000	67,000	60,000	77,000	S	S	S
S&E-related occupations	57,000	44,000	53,000	58,000	65,000	67,000	66,000	65,000	73,000
Male	70,000	44,000	60,000	74,000	81,000	88,000	84,000	82,000	90,000
Female	50,000	45,000	50,000	52,000	53,000	55,000	56,000	50,000	52,000
Health-related occupations	60,000	46,000	55,000	60,000	68,000	68,000	68,000	75,000	80,000
Male	90,000	48,000	72,000	92,000	115,000	120,000	100,000	110,000	108,000
Female	50,000	45,000	50,000	54,000	53,000	55,000	56,000	50,000	50,000
S&E managers	92,000	75,000	83,000	96,000	94,000	93,000	100,000	108,000	100,000
Male	98,000	82,000	85,000	100,000	98,000	98,000	104,000	110,000	100,000
Female	80,000	69,000	69,000	82,000	85,000	82,000	83,000	S	S
S&E precollege teachers	42,000	38,000	40,000	42,000	45,000	46,000	50,000	50,000	41,000
Male	43,000	39,000	40,000	42,000	48,000	52,000	50,000	52,000	40,000
Female	41,000	38,000	40,000	42,000	44,000	44,000	48,000	48,000	41,000
S&E technicians/technologists	57,000	40,000	56,000	57,000	63,000	60,000	65,000	60,000	70,000
Male	58,000	42,000	58,000	60,000	65,000	56,000	67,000	60,000	69,000
Female	53,000	36,000	51,000	55,000	60,000	66,000	60,000	61,000	72,000
Other S&E-related occupations	60,000	43,000	50,000	58,000	69,000	85,000	82,000	60,000	73,000
Male	63,000	41,000	52,000	58,000	69,000	90,000	82,000	62,000	73,000
Female	50,000	47,000	44,000	S	S	62,000	S	S	S
Non-S&E occupations	54,000	40,000	50,000	60,000	61,000	62,000	62,000	63,000	50,000
Male	65,000	45,000	60,000	65,000	72,000	75,000	70,000	70,000	60,000
Female	43,000	35,000	43,000	50,000	50,000	51,000	50,000	45,000	38,000
Art/humanities/related occupations	50,000	31,000	40,000	58,000	49,000	52,000	60,000	43,000	52,000
Male	61,000	29,000	50,000	70,000	69,000	52,000	90,000	75,000	71,000
Female	40,000	38,000	32,000	50,000	47,000	52,000	34,000	S	S
Management-related occupations	64,000	50,000	64,000	65,000	65,000	70,000	70,000	67,000	50,000
Male	70,000	60,000	67,000	69,000	70,000	80,000	73,000	72,000	56,000
Female	55,000	47,000	57,000	55,000	52,000	60,000	64,000	50,000	45,000
Non-S&E managers	100,000	80,000	80,000	95,000	103,000	100,000	108,000	102,000	103,000
Male	100,000	85,000	90,000	100,000	107,000	101,000	115,000	106,000	115,000
Female	80,000	76,000	72,000	82,000	90,000	81,000	90,000	90,000	79,000

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Non-S&E postsecondary teachers	50,000	45,000	47,000	55,000	60,000	65,000	52,000	70,000	75,000
Male	55,000	45,000	56,000	60,000	60,000	75,000	52,000	65,000	80,000
Female	45,000	38,000	43,000	48,000	59,000	60,000	62,000	S	S
Non-S&E precollege/other teachers	40,000	37,000	40,000	44,000	40,000	40,000	48,000	62,000	36,000
Male	43,000	37,000	40,000	49,000	43,000	40,000	55,000	S	S
Female	39,000	37,000	39,000	39,000	40,000	41,000	44,000	47,000	S
Sales/marketing occupations	60,000	45,000	59,000	70,000	73,000	63,000	62,000	62,000	50,000
Male	69,000	53,000	70,000	75,000	80,000	80,000	71,000	63,000	58,000
Female	47,000	39,000	48,000	60,000	55,000	38,000	47,000	45,000	30,000
Social services/related occupations	39,000	34,000	38,000	40,000	42,000	42,000	50,000	51,000	49,000
Male	41,000	36,000	40,000	42,000	47,000	45,000	53,000	55,000	S
Female	36,000	32,000	37,000	39,000	40,000	42,000	43,000	50,000	S
Other non-S&E occupations	45,000	33,000	44,000	49,000	50,000	53,000	50,000	50,000	40,000
Male	50,000	37,000	50,000	55,000	55,000	60,000	54,000	55,000	46,000
Female	38,000	30,000	40,000	41,000	43,000	48,000	40,000	36,000	30,000
Bachelor's degrees, all occupations	54,000	38,000	50,000	57,000	64,000	62,000	60,000	60,000	55,000
Male	62,000	42,000	55,000	63,000	70,000	73,000	69,000	70,000	65,000
Female	45,000	35,000	44,000	49,000	50,000	50,000	49,000	46,000	43,000
S&E occupations	65,000	47,000	60,000	68,000	75,000	78,000	73,000	75,000	77,000
Male	70,000	50,000	62,000	70,000	76,000	80,000	75,000	78,000	80,000
Female	55,000	41,000	54,000	58,000	70,000	67,000	60,000	61,000	60,000
Scientists	62,000	44,000	58,000	65,000	75,000	72,000	69,000	67,000	72,000
Male	67,000	47,000	60,000	70,000	77,000	75,000	72,000	70,000	75,000
Female	52,000	38,000	52,000	55,000	70,000	65,000	60,000	60,000	60,000
Biological/agricultural/other life scientists	42,000	30,000	40,000	48,000	48,000	46,000	60,000	53,000	50,000
Male	45,000	32,000	36,000	48,000	48,000	46,000	66,000	50,000	S
Female	40,000	27,000	46,000	50,000	50,000	51,000	54,000	S	S
Agricultural/food scientists	46,000	S	S	S	S	S	S	S	S
Male	45,000	S	S	S	S	S	S	S	S
Female	46,000	S	S	S	S	S	S	S	S
Biological/medical scientists	40,000	30,000	42,000	48,000	46,000	46,000	52,000	53,000	S
Male	44,000	32,000	36,000	48,000	46,000	S	51,000	S	S
Female	40,000	28,000	48,000	50,000	54,000	55,000	S	S	S
Environmental life scientists	50,000	31,000	S	S	53,000	S	66,000	S	S
Male	50,000	S	S	S	S	S	68,000	S	S
Female	33,000	S	S	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	31,000	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Computer/mathematical scientists	68,000	51,000	62,000	69,000	78,000	78,000	70,000	75,000	75,000
Male	70,000	53,000	65,000	72,000	80,000	80,000	74,000	80,000	80,000
Female	60,000	47,000	58,000	59,000	72,000	70,000	60,000	67,000	60,000
Computer/information scientists	69,000	52,000	64,000	69,000	78,000	78,000	70,000	78,000	75,000
Male	70,000	53,000	65,000	72,000	80,000	80,000	74,000	80,000	80,000
Female	60,000	47,000	60,000	59,000	73,000	70,000	62,000	72,000	60,000

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Mathematical scientists	60,000	45,000	S	S	S	S	S	S	S
Male	76,000	49,000	S	S	S	S	S	S	S
Female	49,000	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	38,000	S	S	S	S	S	S	S	S
Male	40,000	S	S	S	S	S	S	S	S
Female	38,000	S	S	S	S	S	S	S	S
Physical/related scientists	47,000	38,000	48,000	50,000	62,000	60,000	55,000	55,000	60,000
Male	50,000	35,000	50,000	52,000	60,000	60,000	58,000	50,000	60,000
Female	45,000	40,000	41,000	42,000	63,000	46,000	50,000	S	S
Chemists, except biochemists	50,000	40,000	50,000	47,000	67,000	70,000	54,000	61,000	60,000
Male	55,000	35,000	51,000	50,000	65,000	80,000	60,000	61,000	60,000
Female	46,000	40,000	46,000	42,000	74,000	S	S	S	S
Earth/atmospheric/ocean scientists	54,000	33,000	57,000	54,000	53,000	62,000	S	S	S
Male	58,000	33,000	57,000	S	65,000	62,000	S	S	S
Female	43,000	32,000	S	S	S	S	S	S	S
Physicists/astronomers	50,000	25,000	S	S	S	S	S	S	S
Male	45,000	25,000	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	25,000	19,000	S	S	S	S	S	S	S
Male	34,000	19,000	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Other physical/related scientists	40,000	40,000	40,000	S	S	S	S	S	S
Male	40,000	S	S	S	S	S	S	S	S
Female	45,000	S	S	S	S	S	S	S	S
Social/related scientists	45,000	36,000	45,000	55,000	75,000	40,000	76,000	S	S
Male	50,000	36,000	44,000	S	S	S	S	S	S
Female	43,000	36,000	45,000	S	S	S	S	S	S
Economists	60,000	S	S	S	S	S	S	S	S
Male	66,000	S	S	S	S	S	S	S	S
Female	45,000	S	S	S	S	S	S	S	S
Political/related scientists	40,000	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	S	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Psychologists	31,000	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	32,000	S	S	S	S	S	S	S	S
Sociologists/anthropologists	S	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Other social/related scientists	50,000	36,000	45,000	58,000	S	S	84,000	S	S
Male	52,000	40,000	S	S	S	S	S	S	S
Female	45,000	36,000	S	S	S	S	S	S	S
Engineers	70,000	52,000	62,000	70,000	75,000	84,000	80,000	80,000	82,000
Male	71,000	53,000	62,000	70,000	76,000	85,000	80,000	80,000	83,000
Female	60,000	50,000	60,000	67,000	69,000	80,000	70,000	S	S
Aerospace/aeronautical/astronautical engineers	81,000	54,000	72,000	78,000	81,000	90,000	100,000	97,000	98,000
Male	81,000	55,000	72,000	78,000	81,000	90,000	100,000	97,000	98,000
Female	69,000	52,000	S	S	S	S	S	S	S
Chemical engineers	72,000	55,000	63,000	84,000	80,000	90,000	100,000	98,000	S
Male	76,000	54,000	65,000	78,000	80,000	91,000	104,000	S	S
Female	64,000	57,000	62,000	S	S	S	S	S	S
Civil/architectural/sanitary engineers	65,000	45,000	60,000	65,000	70,000	72,000	81,000	82,000	80,000
Male	68,000	45,000	60,000	65,000	70,000	72,000	81,000	82,000	84,000
Female	55,000	46,000	57,000	S	S	S	S	S	S
Electrical/computer hardware engineers	75,000	60,000	70,000	75,000	82,000	89,000	80,000	83,000	85,000
Male	75,000	60,000	70,000	75,000	80,000	88,000	80,000	84,000	85,000
Female	70,000	55,000	100,000	61,000	90,000	S	S	S	S
Industrial engineers	62,000	52,000	60,000	63,000	70,000	94,000	63,000	65,000	S
Male	63,000	52,000	60,000	62,000	70,000	95,000	63,000	65,000	S
Female	60,000	52,000	S	S	S	S	S	S	S
Mechanical engineers	70,000	53,000	62,000	70,000	78,000	83,000	80,000	85,000	75,000
Male	70,000	53,000	62,000	70,000	78,000	84,000	80,000	85,000	75,000
Female	62,000	52,000	62,000	S	S	S	S	S	S
Postsecondary teachers-engineering	38,000	S	S	S	S	S	S	S	S
Male	38,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Other engineers	70,000	50,000	59,000	68,000	70,000	82,000	78,000	75,000	80,000
Male	70,000	50,000	60,000	69,000	70,000	85,000	79,000	78,000	80,000
Female	57,000	46,000	55,000	66,000	S	80,000	S	S	S
S&E-related occupations	50,000	40,000	46,000	50,000	55,000	55,000	58,000	54,000	54,000
Male	57,000	39,000	50,000	56,000	65,000	66,000	67,000	65,000	69,000
Female	47,000	40,000	45,000	49,000	48,000	52,000	51,000	50,000	50,000
Health-related occupations	50,000	42,000	47,000	50,000	50,000	54,000	53,000	52,000	50,000
Male	55,000	41,000	50,000	53,000	52,000	64,000	62,000	75,000	75,000
Female	48,000	42,000	47,000	50,000	48,000	52,000	51,000	50,000	47,000
S&E managers	87,000	61,000	69,000	91,000	91,000	92,000	85,000	103,000	96,000
Male	93,000	61,000	75,000	100,000	93,000	92,000	96,000	107,000	96,000
Female	80,000	62,000	68,000	80,000	83,000	80,000	S	S	S
S&E precollege teachers	38,000	33,000	35,000	39,000	40,000	42,000	42,000	49,000	40,000
Male	39,000	32,000	35,000	41,000	41,000	44,000	49,000	50,000	S
Female	38,000	33,000	35,000	39,000	39,000	39,000	41,000	45,000	41,000
S&E technicians/technologists	55,000	38,000	54,000	56,000	62,000	59,000	65,000	60,000	67,000
Male	56,000	39,000	57,000	56,000	64,000	56,000	67,000	59,000	61,000
Female	50,000	33,000	47,000	55,000	59,000	65,000	58,000	70,000	S

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Other S&E-related occupations	60,000	44,000	49,000	54,000	70,000	95,000	72,000	50,000	65,000
Male	62,000	44,000	51,000	55,000	72,000	100,000	82,000	60,000	70,000
Female	50,000	50,000	S	S	S	S	S	S	S
Non-S&E occupations	48,000	31,000	44,000	50,000	55,000	55,000	54,000	60,000	48,000
Male	57,000	35,000	50,000	58,000	65,000	65,000	60,000	65,000	52,000
Female	38,000	30,000	38,000	45,000	40,000	42,000	42,000	42,000	36,000
Art/humanities/related occupations	50,000	30,000	40,000	58,000	49,000	S	60,000	45,000	S
Male	60,000	29,000	S	S	S	S	S	S	S
Female	42,000	30,000	S	50,000	S	S	S	S	S
Management-related occupations	57,000	42,000	55,000	55,000	57,000	69,000	63,000	67,000	55,000
Male	63,000	48,000	60,000	60,000	65,000	75,000	70,000	71,000	57,000
Female	49,000	39,000	49,000	52,000	47,000	60,000	55,000	52,000	S
Non-S&E managers	95,000	60,000	65,000	86,000	100,000	95,000	105,000	96,000	100,000
Male	100,000	65,000	70,000	90,000	100,000	100,000	108,000	98,000	103,000
Female	75,000	S	65,000	80,000	85,000	65,000	89,000	S	S
Non-S&E postsecondary teachers	43,000	S	S	S	S	S	S	S	S
Male	50,000	S	S	S	S	S	S	S	S
Female	37,000	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	31,000	30,000	32,000	30,000	32,000	31,000	34,000	47,000	S
Male	36,000	31,000	36,000	S	S	S	S	S	S
Female	30,000	28,000	32,000	25,000	32,000	25,000	34,000	S	S
Sales/marketing occupations	55,000	38,000	50,000	65,000	73,000	62,000	60,000	63,000	44,000
Male	62,000	42,000	52,000	65,000	80,000	73,000	70,000	66,000	52,000
Female	45,000	33,000	46,000	60,000	60,000	40,000	40,000	45,000	32,000
Social services/related occupations	31,000	28,000	33,000	31,000	35,000	34,000	36,000	50,000	S
Male	35,000	30,000	35,000	37,000	S	S	50,000	S	S
Female	30,000	27,000	31,000	30,000	31,000	32,000	31,000	S	S
Other non-S&E occupations	40,000	30,000	39,000	42,000	41,000	45,000	41,000	42,000	40,000
Male	42,000	30,000	42,000	45,000	44,000	50,000	45,000	50,000	40,000
Female	32,000	28,000	33,000	38,000	35,000	40,000	38,000	33,000	30,000
Master's degrees, all occupations	63,000	50,000	64,000	70,000	70,000	69,000	70,000	67,000	67,000
Male	74,000	60,000	75,000	80,000	80,000	80,000	78,000	74,000	71,000
Female	52,000	46,000	51,000	59,000	56,000	56,000	61,000	55,000	50,000
S&E occupations	73,000	60,000	72,000	80,000	84,000	82,000	80,000	80,000	79,000
Male	78,000	65,000	78,000	82,000	86,000	85,000	81,000	83,000	87,000
Female	60,000	50,000	60,000	68,000	69,000	70,000	70,000	61,000	50,000
Scientists	70,000	55,000	71,000	75,000	79,000	80,000	74,000	68,000	74,000
Male	75,000	60,000	80,000	80,000	85,000	85,000	75,000	70,000	85,000
Female	58,000	49,000	58,000	65,000	65,000	68,000	73,000	66,000	60,000
Biological/agricultural/other life scientists	49,000	40,000	48,000	54,000	54,000	57,000	47,000	50,000	S
Male	50,000	40,000	48,000	55,000	54,000	54,000	47,000	S	S
Female	47,000	39,000	50,000	42,000	56,000	72,000	S	S	S
Agricultural/food scientists	47,000	38,000	S	S	S	S	S	S	S
Male	47,000	S	S	S	S	S	S	S	S
Female	48,000	S	S	S	S	S	S	S	S

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Biological/medical scientists	54,000	42,000	54,000	58,000	60,000	64,000	81,000	S	S
Male	55,000	50,000	53,000	59,000	60,000	S	S	S	S
Female	52,000	41,000	56,000	48,000	S	78,000	S	S	S
Environmental life scientists	42,000	S	S	S	S	S	S	S	S
Male	42,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	40,000	36,000	S	S	S	S	S	S	S
Male	45,000	S	S	S	S	S	S	S	S
Female	35,000	S	S	S	S	S	S	S	S
Computer/mathematical scientists	77,000	66,000	80,000	81,000	85,000	87,000	81,000	78,000	82,000
Male	80,000	68,000	84,000	88,000	88,000	88,000	83,000	78,000	87,000
Female	67,000	60,000	69,000	70,000	75,000	77,000	78,000	75,000	S
Computer/information scientists	80,000	66,000	82,000	82,000	88,000	87,000	82,000	80,000	90,000
Male	82,000	70,000	85,000	89,000	90,000	90,000	87,000	80,000	90,000
Female	70,000	60,000	73,000	72,000	79,000	82,000	74,000	80,000	S
Mathematical scientists	72,000	60,000	72,000	82,000	S	S	S	S	S
Male	76,000	60,000	S	S	S	S	S	S	S
Female	60,000	55,000	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	45,000	40,000	40,000	49,000	S	S	S	S	S
Male	50,000	40,000	S	S	S	S	S	S	S
Female	41,000	S	40,000	S	S	S	S	S	S
Physical/related scientists	66,000	46,000	60,000	66,000	84,000	90,000	73,000	66,000	S
Male	70,000	48,000	60,000	75,000	85,000	90,000	80,000	66,000	S
Female	59,000	43,000	58,000	64,000	S	S	S	S	S
Chemists, except biochemists	66,000	56,000	66,000	66,000	S	S	S	S	S
Male	70,000	56,000	S	S	S	S	S	S	S
Female	65,000	56,000	66,000	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	75,000	46,000	S	75,000	87,000	82,000	S	S	S
Male	75,000	47,000	S	S	86,000	82,000	S	S	S
Female	52,000	44,000	S	S	S	S	S	S	S
Physicists/astronomers	68,000	38,000	S	S	S	S	S	S	S
Male	80,000	50,000	S	S	S	S	S	S	S
Female	59,000	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	45,000	28,000	S	S	S	S	S	S	S
Male	47,000	S	S	S	S	S	S	S	S
Female	45,000	S	S	S	S	S	S	S	S
Other physical/related scientists	65,000	43,000	S	S	S	S	S	S	S
Male	65,000	S	S	S	S	S	S	S	S
Female	60,000	S	S	S	S	S	S	S	S
Social/related scientists	53,000	41,000	48,000	60,000	70,000	60,000	67,000	80,000	72,000
Male	60,000	43,000	50,000	75,000	82,000	61,000	68,000	86,000	S
Female	48,000	40,000	41,000	53,000	60,000	57,000	65,000	S	S
Economists	89,000	60,000	S	S	S	S	S	S	S

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Male	89,000	S	S	S	S	S	S	S	S
Female	81,000	S	S	S	S	S	S	S	S
Political/related scientists	S	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	44,000	24,000	S	S	S	S	S	S	S
Male	48,000	S	S	S	S	S	S	S	S
Female	38,000	S	S	S	S	S	S	S	S
Psychologists	48,000	40,000	49,000	53,000	60,000	55,000	60,000	S	S
Male	55,000	40,000	S	S	S	55,000	62,000	S	S
Female	45,000	38,000	49,000	52,000	55,000	55,000	51,000	S	S
Sociologists/anthropologists	50,000	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Other social/related scientists	65,000	49,000	51,000	75,000	S	S	S	S	S
Male	78,000	55,000	S	S	S	S	S	S	S
Female	50,000	46,000	S	S	S	S	S	S	S
Engineers	80,000	68,000	77,000	85,000	89,000	86,000	88,000	90,000	84,000
Male	80,000	69,000	78,000	85,000	89,000	86,000	89,000	90,000	90,000
Female	70,000	60,000	75,000	82,000	82,000	80,000	S	S	S
Aerospace/aeronautical/astronautical engineers	82,000	69,000	80,000	94,000	80,000	84,000	95,000	S	S
Male	80,000	67,000	80,000	94,000	80,000	81,000	S	S	S
Female	93,000	69,000	S	S	S	S	S	S	S
Chemical engineers	82,000	70,000	S	94,000	S	S	S	S	S
Male	82,000	72,000	S	S	S	S	S	S	S
Female	70,000	70,000	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	72,000	55,000	64,000	75,000	80,000	85,000	80,000	80,000	75,000
Male	75,000	60,000	66,000	73,000	85,000	89,000	80,000	80,000	77,000
Female	55,000	45,000	S	S	S	S	S	S	S
Electrical/computer hardware engineers	86,000	74,000	81,000	95,000	100,000	100,000	91,000	106,000	94,000
Male	86,000	74,000	81,000	93,000	97,000	100,000	92,000	109,000	88,000
Female	87,000	75,000	81,000	S	S	S	S	S	S
Industrial engineers	72,000	62,000	72,000	S	S	S	S	S	S
Male	72,000	62,000	74,000	S	S	S	S	S	S
Female	60,000	53,000	S	S	S	S	S	S	S
Mechanical engineers	78,000	70,000	77,000	84,000	85,000	66,000	87,000	90,000	S
Male	79,000	71,000	75,000	84,000	85,000	66,000	87,000	90,000	S
Female	74,000	68,000	S	S	S	S	S	S	S
Postsecondary teachers-engineering	65,000	S	S	S	S	S	S	S	S
Male	65,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Other engineers	80,000	65,000	75,000	80,000	90,000	83,000	85,000	90,000	S
Male	83,000	67,000	78,000	80,000	90,000	84,000	90,000	90,000	S
Female	60,000	60,000	73,000	S	S	S	S	S	S

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
S&E-related occupations	56,000	48,000	58,000	62,000	60,000	61,000	65,000	60,000	62,000
Male	61,000	50,000	60,000	73,000	65,000	73,000	75,000	67,000	76,000
Female	53,000	48,000	55,000	58,000	57,000	54,000	61,000	50,000	58,000
Health-related occupations	56,000	51,000	60,000	63,000	61,000	55,000	65,000	52,000	55,000
Male	65,000	56,000	74,000	80,000	75,000	70,000	65,000	S	S
Female	55,000	50,000	55,000	62,000	60,000	53,000	60,000	50,000	S
S&E managers	95,000	83,000	90,000	96,000	92,000	103,000	120,000	108,000	S
Male	100,000	90,000	98,000	100,000	100,000	95,000	128,000	110,000	S
Female	85,000	75,000	80,000	86,000	86,000	S	S	S	S
S&E precollege teachers	48,000	40,000	47,000	48,000	50,000	53,000	56,000	55,000	S
Male	50,000	40,000	48,000	50,000	50,000	60,000	55,000	57,000	S
Female	46,000	40,000	47,000	45,000	51,000	50,000	56,000	S	S
S&E technicians/technologists	63,000	56,000	64,000	70,000	65,000	65,000	73,000	62,000	S
Male	65,000	53,000	60,000	80,000	82,000	65,000	80,000	S	S
Female	63,000	57,000	80,000	50,000	S	S	S	S	S
Other S&E-related occupations	62,000	41,000	52,000	70,000	65,000	80,000	S	S	S
Male	65,000	S	55,000	S	S	S	S	S	S
Female	57,000	S	S	S	S	S	S	S	S
Non-S&E occupations	60,000	48,000	58,000	67,000	65,000	65,000	70,000	64,000	60,000
Male	73,000	60,000	75,000	80,000	78,000	78,000	75,000	67,000	62,000
Female	50,000	42,000	47,000	53,000	52,000	55,000	60,000	59,000	47,000
Art/humanities/related occupations	50,000	45,000	S	S	S	S	S	S	S
Male	65,000	S	S	S	S	S	S	S	S
Female	39,000	45,000	S	S	S	S	S	S	S
Management-related occupations	75,000	64,000	75,000	77,000	80,000	81,000	75,000	68,000	45,000
Male	80,000	75,000	75,000	80,000	90,000	85,000	80,000	72,000	45,000
Female	68,000	56,000	73,000	75,000	71,000	65,000	65,000	S	S
Non-S&E managers	100,000	82,000	99,000	102,000	112,000	100,000	98,000	100,000	98,000
Male	104,000	86,000	100,000	109,000	117,000	100,000	115,000	100,000	120,000
Female	80,000	77,000	78,000	80,000	97,000	89,000	90,000	S	S
Non-S&E postsecondary teachers	44,000	43,000	40,000	48,000	40,000	54,000	44,000	S	S
Male	45,000	45,000	S	S	S	S	S	S	S
Female	36,000	30,000	40,000	S	S	S	S	S	S
Non-S&E precollege/other teachers	49,000	42,000	42,000	51,000	55,000	52,000	55,000	68,000	S
Male	53,000	42,000	46,000	56,000	S	S	62,000	S	S
Female	48,000	42,000	42,000	49,000	55,000	54,000	53,000	S	S
Sales/marketing occupations	75,000	70,000	100,000	80,000	65,000	75,000	71,000	45,000	50,000
Male	84,000	78,000	102,000	90,000	80,000	100,000	71,000	50,000	55,000
Female	55,000	61,000	50,000	60,000	42,000	S	S	S	S
Social services/related occupations	43,000	38,000	42,000	47,000	46,000	48,000	55,000	55,000	S
Male	46,000	40,000	42,000	48,000	47,000	45,000	55,000	S	S
Female	42,000	37,000	42,000	47,000	43,000	49,000	55,000	S	S
Other non-S&E occupations	47,000	44,000	47,000	53,000	46,000	49,000	48,000	50,000	44,000
Male	59,000	50,000	64,000	56,000	50,000	62,000	60,000	50,000	45,000
Female	42,000	38,000	42,000	46,000	38,000	43,000	42,000	S	S

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Doctorate degrees, all occupations	77,000	54,000	70,000	76,000	85,000	90,000	100,000	100,000	100,000
Male	83,000	60,000	75,000	82,000	88,000	91,000	100,000	100,000	102,000
Female	63,000	50,000	60,000	64,000	77,000	75,000	87,000	83,000	92,000
S&E occupations	75,000	52,000	70,000	78,000	80,000	86,000	92,000	93,000	100,000
Male	80,000	57,000	75,000	82,000	84,000	90,000	95,000	94,000	100,000
Female	61,000	47,000	60,000	68,000	74,000	75,000	80,000	80,000	100,000
Scientists	72,000	50,000	65,000	73,000	78,000	84,000	89,000	88,000	98,000
Male	75,000	52,000	69,000	77,000	80,000	85,000	90,000	89,000	98,000
Female	60,000	46,000	60,000	67,000	72,000	74,000	80,000	79,000	100,000
Biological/agricultural/other life scientists	67,000	40,000	60,000	72,000	80,000	84,000	90,000	93,000	98,000
Male	71,000	41,000	60,000	73,000	81,000	85,000	93,000	95,000	97,000
Female	57,000	40,000	57,000	70,000	76,000	73,000	80,000	85,000	S
Agricultural/food scientists	72,000	50,000	68,000	70,000	80,000	90,000	90,000	74,000	S
Male	74,000	50,000	68,000	73,000	80,000	93,000	90,000	74,000	S
Female	63,000	48,000	S	S	S	S	S	S	S
Biological/medical scientists	67,000	40,000	62,000	80,000	83,000	90,000	103,000	106,000	105,000
Male	73,000	40,000	65,000	80,000	90,000	98,000	106,000	109,000	100,000
Female	57,000	38,000	60,000	74,000	74,000	83,000	92,000	S	S
Environmental life scientists	63,000	S	S	S	S	S	S	S	S
Male	63,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	66,000	45,000	51,000	62,000	70,000	72,000	80,000	85,000	92,000
Male	70,000	45,000	51,000	65,000	70,000	74,000	80,000	86,000	98,000
Female	57,000	45,000	50,000	57,000	71,000	67,000	75,000	84,000	S
Computer/mathematical scientists	79,000	65,000	80,000	80,000	80,000	86,000	93,000	80,000	104,000
Male	81,000	71,000	80,000	83,000	80,000	89,000	95,000	80,000	104,000
Female	63,000	48,000	70,000	72,000	76,000	73,000	73,000	S	S
Computer/information scientists	87,000	75,000	85,000	98,000	93,000	90,000	90,000	94,000	S
Male	89,000	77,000	86,000	98,000	94,000	100,000	100,000	94,000	S
Female	72,000	60,000	83,000	90,000	S	70,000	S	S	S
Mathematical scientists	88,000	71,000	89,000	90,000	105,000	89,000	110,000	105,000	S
Male	90,000	71,000	89,000	92,000	105,000	99,000	108,000	S	S
Female	85,000	65,000	89,000	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	62,000	48,000	56,000	62,000	64,000	80,000	88,000	68,000	100,000
Male	67,000	57,000	60,000	66,000	63,000	76,000	90,000	65,000	100,000
Female	50,000	40,000	52,000	55,000	76,000	S	S	S	S
Physical/related scientists	79,000	55,000	73,000	82,000	82,000	92,000	100,000	93,000	95,000
Male	80,000	55,000	75,000	83,000	83,000	92,000	100,000	95,000	95,000
Female	66,000	52,000	65,000	70,000	72,000	79,000	70,000	S	S
Chemists, except biochemists	85,000	67,000	83,000	93,000	93,000	102,000	101,000	90,000	95,000
Male	87,000	68,000	83,000	93,000	95,000	102,000	104,000	96,000	95,000
Female	77,000	66,000	83,000	86,000	75,000	S	S	S	S
Earth/atmospheric/ocean scientists	80,000	55,000	69,000	77,000	84,000	90,000	110,000	S	S
Male	83,000	60,000	72,000	75,000	85,000	98,000	110,000	S	S

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Female	67,000	54,000	S	S	S	S	S	S	S
Physicists/astronomers	90,000	50,000	80,000	92,000	99,000	100,000	107,000	118,000	120,000
Male	91,000	50,000	81,000	92,000	99,000	102,000	107,000	122,000	120,000
Female	75,000	61,000	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	64,000	48,000	53,000	63,000	64,000	72,000	79,000	81,000	90,000
Male	65,000	50,000	54,000	65,000	64,000	75,000	76,000	81,000	90,000
Female	54,000	44,000	51,000	58,000	66,000	S	S	S	S
Other physical/related scientists	80,000	70,000	80,000	S	S	S	S	S	S
Male	80,000	S	S	S	S	S	S	S	S
Female	55,000	S	S	S	S	S	S	S	S
Social/related scientists	67,000	51,000	60,000	67,000	73,000	80,000	83,000	85,000	100,000
Male	72,000	53,000	60,000	70,000	76,000	80,000	85,000	87,000	100,000
Female	61,000	50,000	58,000	64,000	70,000	74,000	80,000	78,000	S
Economists	105,000	78,000	102,000	105,000	130,000	130,000	125,000	S	S
Male	106,000	80,000	110,000	105,000	S	130,000	S	S	S
Female	100,000	77,000	95,000	S	S	S	S	S	S
Political/related scientists	75,000	S	S	S	S	S	S	S	S
Male	84,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	61,000	48,000	52,000	60,000	65,000	71,000	75,000	85,000	97,000
Male	65,000	48,000	54,000	60,000	68,000	71,000	78,000	85,000	97,000
Female	55,000	47,000	50,000	60,000	61,000	71,000	70,000	72,000	S
Psychologists	70,000	54,000	65,000	70,000	80,000	85,000	87,000	86,000	97,000
Male	80,000	55,000	65,000	80,000	85,000	89,000	91,000	86,000	93,000
Female	64,000	52,000	65,000	69,000	73,000	80,000	75,000	78,000	S
Sociologists/anthropologists	63,000	62,000	61,000	74,000	70,000	S	S	S	S
Male	71,000	S	S	S	S	S	S	S	S
Female	62,000	62,000	S	S	S	S	S	S	S
Other social/related scientists	70,000	58,000	68,000	70,000	S	S	S	S	S
Male	70,000	65,000	S	S	S	S	S	S	S
Female	70,000	53,000	68,000	S	S	S	S	S	S
Engineers	90,000	72,000	85,000	95,000	100,000	100,000	105,000	110,000	110,000
Male	90,000	72,000	86,000	95,000	100,000	100,000	105,000	110,000	110,000
Female	80,000	65,000	80,000	96,000	90,000	S	S	S	S
Aerospace/aeronautical/astronautical engineers	96,000	85,000	90,000	98,000	100,000	S	S	S	S
Male	96,000	S	90,000	98,000	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Chemical engineers	90,000	78,000	87,000	100,000	100,000	111,000	100,000	S	S
Male	91,000	75,000	87,000	100,000	100,000	111,000	100,000	S	S
Female	90,000	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	78,000	60,000	78,000	81,000	91,000	S	S	S	S
Male	78,000	60,000	78,000	81,000	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Electrical/computer hardware engineers	102,000	83,000	100,000	108,000	125,000	125,000	110,000	114,000	S
Male	104,000	83,000	105,000	110,000	127,000	121,000	110,000	120,000	S
Female	94,000	80,000	94,000	S	S	S	S	S	S
Industrial engineers	73,000	S	S	S	S	S	S	S	S
Male	73,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Mechanical engineers	90,000	75,000	85,000	95,000	105,000	S	110,000	120,000	S
Male	90,000	75,000	85,000	95,000	109,000	S	118,000	120,000	S
Female	85,000	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	81,000	61,000	70,000	78,000	89,000	95,000	97,000	98,000	102,000
Male	83,000	65,000	70,000	78,000	88,000	95,000	97,000	98,000	102,000
Female	65,000	54,000	70,000	81,000	S	S	S	S	S
Other engineers	85,000	75,000	83,000	95,000	84,000	100,000	110,000	123,000	S
Male	87,000	75,000	84,000	95,000	84,000	102,000	108,000	123,000	S
Female	80,000	72,000	79,000	S	S	S	S	S	S
S&E-related occupations	80,000	50,000	62,000	80,000	90,000	90,000	110,000	116,000	110,000
Male	98,000	61,000	88,000	100,000	118,000	90,000	112,000	120,000	122,000
Female	60,000	50,000	55,000	60,000	72,000	100,000	85,000	90,000	S
Health-related occupations	72,000	50,000	60,000	72,000	77,000	100,000	105,000	115,000	110,000
Male	97,000	52,000	80,000	100,000	113,000	99,000	108,000	126,000	116,000
Female	60,000	50,000	60,000	62,000	72,000	104,000	92,000	80,000	S
S&E managers	120,000	80,000	103,000	113,000	120,000	130,000	130,000	130,000	143,000
Male	124,000	83,000	110,000	120,000	127,000	131,000	130,000	140,000	145,000
Female	100,000	73,000	85,000	98,000	113,000	102,000	S	S	S
S&E precollege teachers	52,000	60,000	55,000	50,000	50,000	42,000	S	S	S
Male	42,000	S	45,000	S	S	S	S	S	S
Female	55,000	S	S	S	S	S	S	S	S
S&E technicians/technologists	62,000	36,000	72,000	62,000	S	S	S	S	S
Male	72,000	46,000	86,000	S	S	S	S	S	S
Female	43,000	S	S	S	S	S	S	S	S
Other S&E-related occupations	90,000	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Non-S&E occupations	85,000	70,000	71,000	70,000	92,000	90,000	120,000	103,000	100,000
Male	90,000	85,000	80,000	80,000	95,000	100,000	120,000	105,000	106,000
Female	68,000	53,000	65,000	63,000	85,000	67,000	124,000	90,000	96,000
Art/humanities/related occupations	70,000	55,000	100,000	10,000	S	S	S	S	S
Male	78,000	S	S	S	S	S	S	S	S
Female	47,000	47,000	S	S	S	S	S	S	S
Management-related occupations	87,000	87,000	105,000	82,000	97,000	70,000	100,000	100,000	S
Male	87,000	87,000	108,000	80,000	97,000	78,000	100,000	144,000	S
Female	80,000	70,000	80,000	84,000	98,000	67,000	S	S	S
Non-S&E managers	115,000	85,000	107,000	105,000	115,000	112,000	145,000	150,000	135,000
Male	120,000	85,000	120,000	110,000	125,000	112,000	143,000	150,000	136,000
Female	100,000	100,000	75,000	100,000	100,000	110,000	165,000	140,000	S

TABLE 28. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Non-S&E postsecondary teachers	65,000	50,000	60,000	60,000	74,000	78,000	75,000	84,000	96,000
Male	66,000	52,000	65,000	67,000	80,000	81,000	78,000	84,000	106,000
Female	55,000	47,000	50,000	58,000	70,000	69,000	S	S	S
Non-S&E precollege/other teachers	61,000	S	S	S	S	S	S	S	S
Male	61,000	S	S	S	S	S	S	S	S
Female	59,000	S	S	S	S	S	S	S	S
Sales/marketing occupations	125,000	180,000	100,000	80,000	95,000	110,000	150,000	170,000	S
Male	150,000	180,000	120,000	90,000	95,000	100,000	150,000	170,000	S
Female	75,000	S	S	S	S	S	S	S	S
Social services/related occupations	51,000	36,000	50,000	59,000	60,000	S	S	S	S
Male	51,000	S	50,000	S	S	S	S	S	S
Female	51,000	S	S	S	S	S	S	S	S
Other non-S&E occupations	56,000	50,000	87,000	50,000	61,000	55,000	70,000	62,000	S
Male	56,000	68,000	55,000	54,000	61,000	56,000	70,000	62,000	S
Female	56,000	S	97,000	S	S	S	S	S	S

S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Salaries are for principal job and rounded to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
All degree levels and occupations[b]	60,000	45,000	56,000	63,000	70,000	70,000	68,000	68,000	65,000
American Indian/Alaska Native	50,000	42,000	46,000	56,000	52,000	41,000	120,000	S	S
Asian	63,000	50,000	70,000	73,000	70,000	60,000	60,000	61,000	58,000
Black	50,000	42,000	50,000	52,000	54,000	55,000	56,000	55,000	55,000
Hispanic	50,000	40,000	50,000	55,000	55,000	60,000	60,000	60,000	55,000
White	61,000	44,000	55,000	65,000	72,000	72,000	70,000	70,000	68,000
Other	56,000	45,000	58,000	60,000	69,000	51,000	65,000	72,000	65,000
S&E occupations	70,000	52,000	65,000	72,000	76,000	80,000	76,000	80,000	80,000
American Indian/Alaska Native	60,000	47,000	57,000	S	54,000	S	S	S	S
Asian	71,000	56,000	74,000	80,000	80,000	80,000	75,000	82,000	74,000
Black	60,000	53,000	58,000	60,000	65,000	72,000	70,000	75,000	65,000
Hispanic	60,000	50,000	60,000	64,000	70,000	73,000	70,000	64,000	70,000
White	70,000	50,000	62,000	70,000	78,000	80,000	77,000	80,000	82,000
Other	62,000	45,000	60,000	63,000	80,000	69,000	74,000	89,000	75,000
Scientists	65,000	49,000	62,000	70,000	75,000	76,000	72,000	73,000	79,000
American Indian/Alaska Native	56,000	47,000	60,000	S	S	S	S	S	S
Asian	70,000	55,000	70,000	80,000	80,000	76,000	70,000	80,000	68,000
Black	58,000	53,000	55,000	59,000	65,000	63,000	65,000	64,000	S
Hispanic	55,000	47,000	57,000	55,000	65,000	69,000	65,000	49,000	70,000
White	66,000	47,000	60,000	69,000	75,000	78,000	72,000	74,000	80,000
Other	56,000	40,000	58,000	57,000	85,000	69,000	60,000	S	S
Biological/agricultural/other life scientists	50,000	35,000	48,000	59,000	59,000	65,000	65,000	63,000	70,000
American Indian/Alaska Native	45,000	S	S	S	S	S	S	S	S
Asian	50,000	34,000	53,000	70,000	62,000	70,000	52,000	70,000	S
Black	53,000	44,000	54,000	50,000	53,000	S	54,000	S	S
Hispanic	48,000	34,000	49,000	46,000	55,000	73,000	S	S	S
White	50,000	35,000	47,000	59,000	60,000	62,000	66,000	62,000	80,000
Other	42,000	36,000	40,000	43,000	S	S	S	S	S
Agricultural/food scientists	48,000	38,000	43,000	52,000	56,000	48,000	39,000	68,000	50,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	47,000	S	S	S	S	S	S	S	S
Black	50,000	S	S	S	S	S	S	S	S
Hispanic	12,000	S	S	S	S	S	S	S	S
White	48,000	38,000	46,000	52,000	56,000	46,000	54,000	62,000	S
Other	S	S	S	S	S	S	S	S	S
Biological/medical scientists	50,000	35,000	50,000	60,000	64,000	69,000	65,000	63,000	72,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	50,000	36,000	51,000	68,000	62,000	70,000	61,000	S	S
Black	53,000	44,000	54,000	S	S	S	S	S	S
Hispanic	49,000	34,000	50,000	42,000	S	S	S	S	S
White	50,000	35,000	48,000	60,000	64,000	65,000	70,000	60,000	93,000
Other	36,000	36,000	S	S	S	S	S	S	S
Environmental life scientists	48,000	32,000	42,000	38,000	53,000	42,000	68,000	46,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	48,000	32,000	42,000	38,000	53,000	42,000	68,000	46,000	S
Other	S	S	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Postsecondary teachers-life/related sciences	55,000	38,000	48,000	57,000	57,000	69,000	69,000	80,000	95,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	54,000	S	68,000	70,000	S	S	S	S	S
Black	48,000	S	S	S	S	S	S	S	S
Hispanic	51,000	40,000	49,000	65,000	S	S	S	S	S
White	55,000	38,000	45,000	55,000	60,000	68,000	65,000	80,000	95,000
Other	53,000	S	S	S	S	S	S	S	S
Computer/mathematical scientists	70,000	58,000	68,000	72,000	80,000	80,000	73,000	76,000	78,000
American Indian/Alaska Native	56,000	S	S	S	S	S	S	S	S
Asian	75,000	60,000	74,000	81,000	84,000	80,000	80,000	80,000	S
Black	60,000	56,000	58,000	60,000	65,000	68,000	70,000	64,000	S
Hispanic	60,000	55,000	62,000	61,000	78,000	60,000	65,000	S	S
White	70,000	56,000	67,000	71,000	80,000	81,000	73,000	78,000	80,000
Other	60,000	58,000	58,000	57,000	85,000	60,000	S	S	S
Computer/information scientists	70,000	59,000	70,000	72,000	80,000	80,000	72,000	80,000	79,000
American Indian/Alaska Native	56,000	S	S	S	S	S	S	S	S
Asian	75,000	60,000	75,000	82,000	85,000	80,000	80,000	80,000	S
Black	63,000	60,000	63,000	60,000	67,000	70,000	73,000	S	S
Hispanic	60,000	55,000	64,000	60,000	78,000	60,000	72,000	S	S
White	72,000	57,000	68,000	71,000	80,000	82,000	72,000	80,000	80,000
Other	60,000	62,000	58,000	57,000	85,000	60,000	S	S	S
Mathematical scientists	73,000	57,000	60,000	81,000	80,000	85,000	97,000	90,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	70,000	70,000	80,000	80,000	S	S	S	S	S
Black	55,000	55,000	S	S	S	S	S	S	S
Hispanic	40,000	60,000	S	S	S	S	S	S	S
White	75,000	60,000	54,000	82,000	80,000	86,000	100,000	90,000	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	51,000	44,000	45,000	53,000	55,000	63,000	73,000	48,000	79,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	60,000	54,000	60,000	58,000	26,000	S	S	S	S
Black	40,000	40,000	S	S	S	S	S	S	S
Hispanic	46,000	46,000	S	S	S	S	S	S	S
White	53,000	48,000	45,000	52,000	61,000	62,000	75,000	46,000	80,000
Other	S	S	S	S	S	S	S	S	S
Physical/related scientists	60,000	42,000	54,000	65,000	70,000	76,000	70,000	66,000	79,000
American Indian/Alaska Native	57,000	S	S	S	S	S	S	S	S
Asian	60,000	40,000	66,000	80,000	65,000	68,000	55,000	65,000	66,000
Black	54,000	54,000	55,000	S	44,000	S	S	S	S
Hispanic	47,000	35,000	40,000	48,000	72,000	S	75,000	S	S
White	60,000	42,000	52,000	65,000	70,000	80,000	74,000	70,000	85,000
Other	42,000	38,000	S	S	S	S	S	S	S
Chemists, except biochemists	60,000	43,000	58,000	62,000	70,000	86,000	70,000	66,000	70,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	60,000	40,000	69,000	80,000	60,000	62,000	S	S	S
Black	52,000	50,000	S	S	S	S	S	S	S
Hispanic	47,000	35,000	S	S	S	S	S	S	S
White	65,000	46,000	53,000	62,000	75,000	91,000	78,000	70,000	75,000
Other	38,000	S	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Earth/atmospheric/ocean scientists	64,000	41,000	59,000	68,000	65,000	74,000	70,000	76,000	90,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	58,000	37,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	50,000	39,000	S	S	S	S	S	S	S
White	64,000	41,000	58,000	68,000	65,000	74,000	70,000	73,000	95,000
Other	S	S	S	S	S	S	S	S	S
Physicists/astronomers	80,000	45,000	65,000	90,000	85,000	95,000	100,000	108,000	100,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	65,000	36,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	55,000	S	S	S	S	S	S	S	S
White	84,000	49,000	65,000	92,000	83,000	95,000	100,000	107,000	97,000
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	54,000	32,000	45,000	57,000	63,000	70,000	70,000	76,000	80,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	60,000	S	S	S	S	S	S	S	S
Black	53,000	S	S	S	S	S	S	S	S
Hispanic	48,000	S	S	S	S	S	S	S	S
White	55,000	36,000	45,000	58,000	63,000	71,000	70,000	71,000	87,000
Other	61,000	S	S	S	S	S	S	S	S
Other physical/related scientists	48,000	40,000	48,000	52,000	70,000	46,000	56,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	48,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	48,000	40,000	52,000	52,000	S	36,000	55,000	S	S
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	56,000	41,000	50,000	60,000	73,000	65,000	75,000	81,000	80,000
American Indian/Alaska Native	60,000	S	S	S	S	S	S	S	S
Asian	60,000	54,000	68,000	62,000	63,000	83,000	72,000	S	S
Black	53,000	36,000	50,000	60,000	75,000	40,000	70,000	S	S
Hispanic	48,000	42,000	50,000	50,000	55,000	64,000	S	S	S
White	57,000	41,000	48,000	63,000	74,000	65,000	78,000	80,000	85,000
Other	48,000	40,000	48,000	S	S	S	S	S	S
Economists	87,000	60,000	100,000	89,000	105,000	62,000	90,000	90,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	65,000	S	S	S	S	S	S	S	S
Black	40,000	S	S	S	S	S	S	S	S
Hispanic	61,000	S	S	S	S	S	S	S	S
White	90,000	70,000	100,000	90,000	120,000	143,000	90,000	90,000	S
Other	S	S	S	S	S	S	S	S	S
Political/related scientists	43,000	40,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	40,000	40,000	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	56,000	44,000	48,000	55,000	64,000	68,000	71,000	75,000	78,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	62,000	62,000	56,000	67,000	65,000	S	S	S	S
Black	55,000	53,000	48,000	55,000	68,000	72,000	60,000	S	S
Hispanic	44,000	46,000	60,000	44,000	S	S	S	S	S
White	57,000	43,000	48,000	54,000	63,000	70,000	74,000	75,000	76,000
Other	40,000	S	S	S	S	S	S	S	S
Psychologists	54,000	41,000	50,000	61,000	65,000	63,000	63,000	61,000	69,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	54,000	45,000	S	S	S	S	S	S	S
Black	58,000	50,000	58,000	S	S	S	S	S	S
Hispanic	44,000	40,000	S	S	S	S	S	S	S
White	54,000	41,000	50,000	63,000	65,000	60,000	63,000	60,000	69,000
Other	60,000	S	S	S	S	S	S	S	S
Sociologists/anthropologists	50,000	36,000	41,000	50,000	65,000	75,000	75,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	75,000	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	50,000	40,000	36,000	S	54,000	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other social/related scientists	55,000	40,000	47,000	60,000	80,000	70,000	84,000	95,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	68,000	S	S	S	S	S	S	S	S
Black	40,000	S	S	S	S	S	S	S	S
Hispanic	54,000	S	S	S	S	S	S	S	S
White	56,000	40,000	45,000	60,000	82,000	61,000	85,000	95,000	S
Other	S	S	S	S	S	S	S	S	S
Engineers	74,000	59,000	67,000	75,000	80,000	85,000	82,000	85,000	84,000
American Indian/Alaska Native	72,000	S	S	S	S	S	S	S	S
Asian	75,000	60,000	80,000	80,000	86,000	80,000	75,000	90,000	80,000
Black	65,000	59,000	63,000	65,000	65,000	76,000	72,000	S	S
Hispanic	67,000	55,000	65,000	75,000	72,000	82,000	72,000	80,000	75,000
White	75,000	59,000	66,000	75,000	80,000	85,000	85,000	85,000	85,000
Other	74,000	54,000	85,000	82,000	74,000	65,000	87,000	S	S
Aerospace/aeronautical/astronautical engineers	82,000	61,000	80,000	85,000	81,000	90,000	98,000	98,000	100,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	80,000	S	S	S	S	S	S	S	S
Black	75,000	S	S	S	S	S	S	S	S
Hispanic	80,000	61,000	S	S	S	S	S	S	S
White	84,000	64,000	80,000	88,000	82,000	90,000	96,000	97,000	100,000
Other	82,000	S	S	S	S	S	S	S	S
Chemical engineers	78,000	60,000	67,000	87,000	80,000	92,000	99,000	100,000	100,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	75,000	60,000	75,000	87,000	70,000	S	S	S	S
Black	74,000	80,000	S	S	S	S	S	S	S
Hispanic	80,000	60,000	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	78,000	60,000	67,000	86,000	80,000	94,000	100,000	100,000	S
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	68,000	48,000	61,000	70,000	70,000	75,000	81,000	82,000	80,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	69,000	52,000	65,000	77,000	75,000	79,000	S	80,000	75,000
Black	57,000	46,000	S	S	S	S	S	S	S
Hispanic	60,000	50,000	65,000	S	S	S	S	S	S
White	69,000	48,000	60,000	70,000	72,000	75,000	84,000	80,000	95,000
Other	89,000	S	S	S	S	S	S	S	S
Electrical/computer hardware engineers	80,000	64,000	75,000	82,000	86,000	90,000	86,000	88,000	90,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	80,000	67,000	87,000	89,000	93,000	101,000	75,000	85,000	S
Black	72,000	65,000	66,000	S	S	S	S	S	S
Hispanic	75,000	60,000	70,000	85,000	73,000	S	S	S	S
White	80,000	64,000	75,000	81,000	85,000	89,000	88,000	88,000	87,000
Other	75,000	S	S	S	S	S	S	S	S
Industrial engineers	65,000	54,000	63,000	67,000	70,000	89,000	67,000	65,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	70,000	62,000	S	S	S	S	S	S	S
Black	58,000	S	S	S	S	S	S	S	S
Hispanic	60,000	50,000	S	S	S	S	S	S	S
White	67,000	53,000	63,000	64,000	74,000	90,000	70,000	65,000	S
Other	S	S	S	S	S	S	S	S	S
Mechanical engineers	72,000	60,000	66,000	75,000	80,000	82,000	84,000	86,000	80,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	69,000	55,000	72,000	69,000	84,000	73,000	82,000	85,000	S
Black	66,000	56,000	S	S	S	S	S	S	S
Hispanic	65,000	55,000	57,000	S	S	S	S	S	S
White	74,000	60,000	66,000	78,000	80,000	83,000	80,000	86,000	80,000
Other	74,000	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	72,000	58,000	64,000	72,000	81,000	90,000	90,000	86,000	78,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	77,000	60,000	S	76,000	84,000	S	S	S	S
Black	52,000	S	S	S	S	S	S	S	S
Hispanic	62,000	S	S	S	S	S	S	S	S
White	72,000	57,000	62,000	72,000	81,000	87,000	91,000	87,000	85,000
Other	S	S	S	S	S	S	S	S	S
Other engineers	72,000	56,000	63,000	71,000	78,000	84,000	80,000	85,000	80,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	72,000	52,000	75,000	72,000	72,000	80,000	S	90,000	S
Black	68,000	65,000	60,000	S	S	S	S	S	S
Hispanic	69,000	61,000	58,000	80,000	S	S	S	S	S
White	72,000	57,000	63,000	70,000	78,000	86,000	80,000	84,000	78,000
Other	45,000	S	S	S	S	S	S	S	S
S&E-related occupations	57,000	44,000	53,000	58,000	65,000	67,000	66,000	65,000	73,000
American Indian/Alaska Native	48,000	48,000	S	S	S	S	S	S	S
Asian	60,000	46,000	70,000	67,000	65,000	60,000	60,000	60,000	76,000
Black	50,000	46,000	50,000	50,000	53,000	55,000	60,000	55,000	55,000
Hispanic	50,000	38,000	45,000	60,000	55,000	62,000	67,000	75,000	73,000

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	58,000	45,000	52,000	58,000	68,000	70,000	67,000	66,000	72,000
Other	58,000	45,000	57,000	60,000	65,000	50,000	75,000	S	S
Health-related occupations	60,000	46,000	55,000	60,000	68,000	68,000	68,000	75,000	80,000
American Indian/Alaska Native	63,000	S	S	S	S	S	S	S	S
Asian	60,000	46,000	72,000	60,000	60,000	60,000	60,000	65,000	78,000
Black	52,000	46,000	51,000	54,000	54,000	55,000	60,000	41,000	S
Hispanic	55,000	37,000	48,000	66,000	56,000	62,000	70,000	90,000	75,000
White	60,000	46,000	55,000	62,000	73,000	72,000	70,000	75,000	82,000
Other	60,000	46,000	60,000	60,000	S	50,000	S	S	S
S&E managers	92,000	75,000	83,000	96,000	94,000	93,000	100,000	108,000	100,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	100,000	80,000	95,000	100,000	107,000	100,000	114,000	S	S
Black	79,000	77,000	S	83,000	S	S	S	S	S
Hispanic	82,000	S	S	83,000	96,000	S	S	S	S
White	93,000	75,000	83,000	97,000	92,000	93,000	100,000	110,000	100,000
Other	94,000	S	S	S	S	S	S	S	S
S&E precollege teachers	42,000	38,000	40,000	42,000	45,000	46,000	50,000	50,000	41,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	44,000	35,000	S	S	S	S	S	S	S
Black	42,000	40,000	39,000	S	46,000	S	S	S	S
Hispanic	38,000	35,000	42,000	42,000	37,000	S	S	S	S
White	42,000	38,000	41,000	42,000	47,000	45,000	50,000	50,000	41,000
Other	33,000	S	S	S	S	S	S	S	S
S&E technicians/technologists	57,000	40,000	56,000	57,000	63,000	60,000	65,000	60,000	70,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	60,000	43,000	65,000	65,000	60,000	60,000	64,000	S	S
Black	50,000	50,000	55,000	S	S	S	S	S	S
Hispanic	45,000	39,000	45,000	45,000	65,000	S	S	S	S
White	57,000	38,000	55,000	56,000	63,000	60,000	65,000	62,000	71,000
Other	65,000	S	S	S	S	S	S	S	S
Other S&E-related occupations	60,000	43,000	50,000	58,000	69,000	85,000	82,000	60,000	73,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	55,000	S	55,000	S	S	S	S	S	S
Black	48,000	S	S	S	S	S	S	S	S
Hispanic	50,000	S	S	S	S	S	S	S	S
White	64,000	45,000	51,000	58,000	70,000	90,000	82,000	60,000	70,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E occupations	54,000	40,000	50,000	60,000	61,000	62,000	62,000	63,000	50,000
American Indian/Alaska Native	45,000	42,000	S	S	S	S	S	S	S
Asian	50,000	45,000	62,000	53,000	48,000	50,000	47,000	45,000	43,000
Black	45,000	36,000	45,000	47,000	50,000	47,000	54,000	50,000	53,000
Hispanic	45,000	37,000	48,000	50,000	45,000	52,000	55,000	55,000	46,000
White	58,000	39,000	50,000	60,000	68,000	69,000	65,000	65,000	52,000
Other	50,000	42,000	52,000	55,000	60,000	42,000	39,000	67,000	S
Art/humanities/related occupations	50,000	31,000	40,000	58,000	49,000	52,000	60,000	43,000	52,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	50,000	S	S	S	S	S	S	S	S
Black	42,000	S	S	S	S	S	S	S	S
Hispanic	52,000	S	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	50,000	30,000	40,000	57,000	50,000	52,000	60,000	43,000	52,000
Other	S	S	S	S	S	S	S	S	S
Management-related occupations	64,000	50,000	64,000	65,000	65,000	70,000	70,000	67,000	50,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	60,000	55,000	70,000	53,000	50,000	60,000	70,000	50,000	S
Black	60,000	59,000	65,000	55,000	58,000	72,000	55,000	S	S
Hispanic	55,000	50,000	55,000	55,000	60,000	70,000	S	S	S
White	65,000	50,000	65,000	67,000	65,000	75,000	70,000	70,000	52,000
Other	44,000	S	40,000	S	S	S	S	S	S
Non-S&E managers	100,000	80,000	80,000	95,000	103,000	100,000	108,000	102,000	103,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	110,000	75,000	118,000	118,000	100,000	120,000	104,000	146,000	S
Black	77,000	74,000	77,000	80,000	75,000	90,000	75,000	65,000	S
Hispanic	90,000	90,000	83,000	75,000	90,000	85,000	100,000	S	S
White	100,000	80,000	80,000	95,000	105,000	100,000	110,000	103,000	103,000
Other	120,000	S	S	S	S	S	S	S	S
Non-S&E postsecondary teachers	50,000	45,000	47,000	55,000	60,000	65,000	52,000	70,000	75,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	70,000	52,000	S	S	S	S	S	S	S
Black	51,000	47,000	S	S	S	S	S	S	S
Hispanic	44,000	24,000	S	S	S	S	S	S	S
White	50,000	45,000	45,000	54,000	60,000	65,000	56,000	62,000	90,000
Other	50,000	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	40,000	37,000	40,000	44,000	40,000	40,000	48,000	62,000	36,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	34,000	S	S	S	S	S	S	S	S
Black	37,000	33,000	38,000	S	S	S	S	S	S
Hispanic	37,000	33,000	36,000	S	S	S	S	S	S
White	41,000	38,000	40,000	45,000	40,000	44,000	44,000	64,000	45,000
Other	42,000	S	S	S	S	S	S	S	S
Sales/marketing occupations	60,000	45,000	59,000	70,000	73,000	63,000	62,000	62,000	50,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	55,000	45,000	65,000	80,000	50,000	50,000	50,000	72,000	S
Black	48,000	59,000	S	S	S	S	S	S	S
Hispanic	48,000	36,000	56,000	55,000	48,000	S	S	S	S
White	60,000	45,000	52,000	73,000	75,000	75,000	65,000	62,000	50,000
Other	87,000	S	S	S	S	S	S	S	S
Social services/related occupations	39,000	34,000	38,000	40,000	42,000	42,000	50,000	51,000	49,000
American Indian/Alaska Native	42,000	S	S	S	S	S	S	S	S
Asian	38,000	30,000	S	S	S	S	S	S	S
Black	37,000	34,000	40,000	38,000	45,000	36,000	S	S	S
Hispanic	40,000	32,000	37,000	39,000	44,000	S	S	S	S
White	39,000	33,000	38,000	40,000	40,000	42,000	52,000	55,000	S
Other	42,000	S	S	S	S	S	S	S	S
Other non-S&E occupations	45,000	33,000	44,000	49,000	50,000	53,000	50,000	50,000	40,000
American Indian/Alaska Native	48,000	S	S	S	S	S	S	S	S
Asian	38,000	35,000	40,000	40,000	38,000	39,000	34,000	30,000	36,000
Black	42,000	32,000	40,000	47,000	45,000	45,000	51,000	S	S
Hispanic	35,000	33,000	42,000	33,000	30,000	39,000	43,000	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	48,000	33,000	46,000	53,000	55,000	60,000	53,000	51,000	40,000
Other	39,000	35,000	37,000	S	S	S	S	S	S
Bachelor's degrees, all occupations	54,000	38,000	50,000	57,000	64,000	62,000	60,000	60,000	55,000
American Indian/Alaska Native	47,000	42,000	36,000	50,000	52,000	S	S	S	S
Asian	54,000	42,000	62,000	61,000	51,000	55,000	50,000	52,000	50,000
Black	46,000	36,000	43,000	46,000	50,000	51,000	54,000	51,000	50,000
Hispanic	45,000	35,000	48,000	50,000	48,000	52,000	60,000	45,000	48,000
White	55,000	38,000	50,000	59,000	67,000	68,000	62,000	63,000	57,000
Other	50,000	40,000	50,000	55,000	69,000	45,000	56,000	72,000	60,000
S&E occupations	65,000	47,000	60,000	68,000	75,000	78,000	73,000	75,000	77,000
American Indian/Alaska Native	57,000	S	S	S	S	S	S	S	S
Asian	67,000	49,000	68,000	75,000	78,000	75,000	73,000	75,000	70,000
Black	58,000	50,000	55,000	59,000	65,000	70,000	65,000	63,000	S
Hispanic	58,000	44,000	57,000	60,000	68,000	72,000	69,000	60,000	75,000
White	67,000	47,000	60,000	69,000	75,000	80,000	74,000	75,000	80,000
Other	58,000	40,000	58,000	62,000	72,000	60,000	54,000	S	S
Scientists	62,000	44,000	58,000	65,000	75,000	72,000	69,000	67,000	72,000
American Indian/Alaska Native	47,000	S	S	S	S	S	S	S	S
Asian	65,000	45,000	68,000	78,000	75,000	72,000	65,000	70,000	66,000
Black	55,000	44,000	50,000	58,000	65,000	60,000	64,000	S	S
Hispanic	52,000	40,000	57,000	52,000	65,000	60,000	65,000	S	S
White	64,000	44,000	56,000	65,000	75,000	75,000	69,000	70,000	75,000
Other	50,000	40,000	57,000	47,000	69,000	S	S	S	S
Biological/agricultural/other life scientists	42,000	30,000	40,000	48,000	48,000	46,000	60,000	53,000	50,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	35,000	S	S	S	S	S	S	S	S
Black	50,000	38,000	S	S	S	S	S	S	S
Hispanic	40,000	32,000	S	S	S	S	S	S	S
White	44,000	29,000	40,000	48,000	50,000	46,000	60,000	52,000	50,000
Other	36,000	S	S	S	S	S	S	S	S
Agricultural/food scientists	46,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	46,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Biological/medical scientists	40,000	30,000	42,000	48,000	46,000	46,000	52,000	53,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	35,000	S	S	S	S	S	S	S	S
Black	47,000	S	S	S	S	S	S	S	S
Hispanic	42,000	32,000	S	S	S	S	S	S	S
White	43,000	28,000	40,000	50,000	50,000	46,000	51,000	S	S
Other	S	S	S	S	S	S	S	S	S
Environmental life scientists	50,000	31,000	S	S	53,000	S	66,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	50,000	31,000	S	S	S	S	68,000	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	31,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	31,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Computer/mathematical scientists	68,000	51,000	62,000	69,000	78,000	78,000	70,000	75,000	75,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	70,000	50,000	69,000	80,000	80,000	75,000	74,000	S	S
Black	59,000	56,000	49,000	59,000	67,000	68,000	70,000	S	S
Hispanic	58,000	47,000	62,000	57,000	79,000	60,000	65,000	S	S
White	70,000	52,000	62,000	69,000	79,000	80,000	70,000	78,000	77,000
Other	57,000	48,000	58,000	47,000	90,000	S	S	S	S
Computer/information scientists	69,000	52,000	64,000	69,000	78,000	78,000	70,000	78,000	75,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	70,000	50,000	69,000	80,000	80,000	75,000	74,000	S	S
Black	60,000	56,000	50,000	59,000	67,000	69,000	73,000	S	S
Hispanic	59,000	48,000	62,000	57,000	79,000	59,000	S	S	S
White	70,000	53,000	64,000	69,000	79,000	80,000	70,000	80,000	77,000
Other	58,000	50,000	58,000	47,000	90,000	S	S	S	S
Mathematical scientists	60,000	45,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	73,000	49,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	38,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	38,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Physical/related scientists	47,000	38,000	48,000	50,000	62,000	60,000	55,000	55,000	60,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	45,000	40,000	S	S	S	S	S	S	S
Black	50,000	S	S	S	S	S	S	S	S
Hispanic	40,000	28,000	S	S	S	S	S	S	S
White	49,000	38,000	48,000	52,000	65,000	61,000	58,000	60,000	65,000
Other	S	S	S	S	S	S	S	S	S
Chemists, except biochemists	50,000	40,000	50,000	47,000	67,000	70,000	54,000	61,000	60,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	48,000	S	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	50,000	S	S	S	S	S	S	S	S
Hispanic	42,000	35,000	S	S	S	S	S	S	S
White	50,000	41,000	50,000	50,000	72,000	86,000	61,000	S	67,000
Other	S	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	54,000	33,000	57,000	54,000	53,000	62,000	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	55,000	35,000	57,000	S	53,000	62,000	S	S	S
Other	S	S	S	S	S	S	S	S	S
Physicists/astronomers	50,000	25,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	50,000	25,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	25,000	19,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	34,000	20,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other physical/related scientists	40,000	40,000	40,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	40,000	40,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	45,000	36,000	45,000	55,000	75,000	40,000	76,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	40,000	S	S	S	S	S	S	S	S
Hispanic	45,000	S	S	S	S	S	S	S	S
White	47,000	36,000	44,000	55,000	80,000	S	84,000	S	S
Other	S	S	S	S	S	S	S	S	S
Economists	60,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	74,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Political/related scientists	40,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	S	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Psychologists	31,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Sociologists/anthropologists	S	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other social/related scientists	50,000	36,000	45,000	58,000	S	S	84,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	50,000	35,000	44,000	55,000	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Engineers	70,000	52,000	62,000	70,000	75,000	84,000	80,000	80,000	82,000
American Indian/Alaska Native	75,000	S	S	S	S	S	S	S	S
Asian	69,000	54,000	72,000	68,000	80,000	80,000	75,000	80,000	74,000
Black	64,000	53,000	60,000	62,000	58,000	75,000	72,000	S	S
Hispanic	64,000	50,000	57,000	70,000	72,000	80,000	79,000	S	S
White	70,000	52,000	62,000	70,000	76,000	85,000	80,000	80,000	83,000
Other	72,000	45,000	90,000	S	S	S	S	S	S
Aerospace/aeronautical/astronautical engineers	81,000	54,000	72,000	78,000	81,000	90,000	100,000	97,000	98,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	80,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	75,000	50,000	S	S	S	S	S	S	S
White	83,000	52,000	74,000	78,000	83,000	92,000	96,000	89,000	98,000
Other	S	S	S	S	S	S	S	S	S
Chemical engineers	72,000	55,000	63,000	84,000	80,000	90,000	100,000	98,000	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	65,000	S	S	S	S	S	S	S	S
Black	62,000	S	S	S	S	S	S	S	S
Hispanic	67,000	S	S	S	S	S	S	S	S
White	75,000	54,000	65,000	84,000	80,000	91,000	100,000	S	S
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	65,000	45,000	60,000	65,000	70,000	72,000	81,000	82,000	80,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	65,000	S	S	S	S	66,000	S	S	S
Black	51,000	45,000	S	S	S	S	S	S	S
Hispanic	60,000	45,000	S	S	S	S	S	S	S
White	66,000	45,000	58,000	66,000	70,000	72,000	81,000	80,000	95,000
Other	89,000	S	S	S	S	S	S	S	S
Electrical/computer hardware engineers	75,000	60,000	70,000	75,000	82,000	89,000	80,000	83,000	85,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	75,000	56,000	84,000	65,000	90,000	90,000	S	S	S
Black	70,000	62,000	S	S	S	S	S	S	S
Hispanic	72,000	55,000	66,000	77,000	S	S	S	S	S
White	75,000	60,000	70,000	75,000	80,000	87,000	86,000	85,000	87,000
Other	70,000	S	S	S	S	S	S	S	S
Industrial engineers	62,000	52,000	60,000	63,000	70,000	94,000	63,000	65,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	76,000	S	S	S	S	S	S	S	S
Black	58,000	S	S	S	S	S	S	S	S
Hispanic	55,000	42,000	S	S	S	S	S	S	S
White	65,000	52,000	60,000	62,000	72,000	95,000	67,000	62,000	S
Other	S	S	S	S	S	S	S	S	S
Mechanical engineers	70,000	53,000	62,000	70,000	78,000	83,000	80,000	85,000	75,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	68,000	S	S	S	S	S	S	S	S
Black	60,000	S	S	S	S	S	S	S	S
Hispanic	60,000	51,000	S	S	S	S	S	S	S
White	70,000	54,000	62,000	72,000	78,000	87,000	80,000	86,000	77,000
Other	72,000	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	38,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other engineers	70,000	50,000	59,000	68,000	70,000	82,000	78,000	75,000	80,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	68,000	43,000	S	S	S	S	S	S	S
Black	65,000	59,000	S	S	S	S	S	S	S
Hispanic	62,000	50,000	S	S	S	S	S	S	S
White	70,000	50,000	60,000	68,000	70,000	87,000	75,000	78,000	80,000
Other	45,000	S	S	S	S	S	S	S	S
S&E-related occupations	50,000	40,000	46,000	50,000	55,000	55,000	58,000	54,000	54,000

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	46,000	S	S	S	S	S	S	S	S
Asian	52,000	42,000	60,000	52,000	45,000	55,000	52,000	52,000	57,000
Black	46,000	40,000	42,000	46,000	48,000	52,000	50,000	53,000	S
Hispanic	42,000	36,000	42,000	50,000	42,000	52,000	54,000	S	S
White	50,000	39,000	46,000	50,000	58,000	58,000	58,000	54,000	55,000
Other	50,000	45,000	48,000	55,000	S	S	S	S	S
Health-related occupations	50,000	42,000	47,000	50,000	50,000	54,000	53,000	52,000	50,000
American Indian/Alaska Native	50,000	S	S	S	S	S	S	S	S
Asian	50,000	46,000	57,000	50,000	38,000	54,000	45,000	52,000	52,000
Black	47,000	46,000	43,000	46,000	47,000	55,000	50,000	S	S
Hispanic	42,000	32,000	40,000	50,000	37,000	55,000	60,000	S	S
White	50,000	42,000	47,000	50,000	51,000	54,000	53,000	52,000	50,000
Other	50,000	45,000	S	S	S	S	S	S	S
S&E managers	87,000	61,000	69,000	91,000	91,000	92,000	85,000	103,000	96,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	87,000	S	S	S	S	S	S	S	S
Black	75,000	S	S	S	S	S	S	S	S
Hispanic	83,000	S	S	S	S	S	S	S	S
White	89,000	62,000	69,000	92,000	87,000	92,000	87,000	110,000	96,000
Other	S	S	S	S	S	S	S	S	S
S&E precollege teachers	38,000	33,000	35,000	39,000	40,000	42,000	42,000	49,000	40,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	37,000	S	S	S	S	S	S	S	S
Black	38,000	38,000	S	S	S	S	S	S	S
Hispanic	36,000	34,000	42,000	S	S	S	S	S	S
White	38,000	32,000	35,000	40,000	40,000	42,000	42,000	49,000	40,000
Other	31,000	S	S	S	S	S	S	S	S
S&E technicians/technologists	55,000	38,000	54,000	56,000	62,000	59,000	65,000	60,000	67,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	60,000	42,000	67,000	61,000	50,000	60,000	64,000	S	S
Black	50,000	41,000	S	S	S	S	S	S	S
Hispanic	45,000	39,000	42,000	S	57,000	S	S	S	S
White	55,000	35,000	52,000	56,000	62,000	60,000	65,000	60,000	70,000
Other	65,000	S	S	S	S	S	S	S	S
Other S&E-related occupations	60,000	44,000	49,000	54,000	70,000	95,000	72,000	50,000	65,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	50,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	55,000	S	S	S	S	S	S	S	S
White	62,000	47,000	51,000	55,000	75,000	100,000	82,000	60,000	65,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E occupations	48,000	31,000	44,000	50,000	55,000	55,000	54,000	60,000	48,000
American Indian/Alaska Native	42,000	42,000	S	S	S	S	S	S	S
Asian	42,000	33,000	54,000	45,000	41,000	45,000	36,000	45,000	43,000
Black	40,000	30,000	38,000	38,000	47,000	43,000	45,000	48,000	S
Hispanic	40,000	31,000	43,000	45,000	41,000	45,000	55,000	52,000	40,000
White	50,000	31,000	45,000	55,000	60,000	60,000	58,000	61,000	50,000
Other	40,000	30,000	37,000	52,000	S	38,000	S	S	S
Art/humanities/related occupations	50,000	30,000	40,000	58,000	49,000	S	60,000	45,000	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	58,000	S	S	S	S	S	S	S	S
White	49,000	29,000	35,000	57,000	49,000	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Management-related occupations	57,000	42,000	55,000	55,000	57,000	69,000	63,000	67,000	55,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	52,000	50,000	60,000	45,000	S	60,000	S	S	S
Black	52,000	40,000	60,000	45,000	S	S	55,000	S	S
Hispanic	50,000	48,000	52,000	S	S	S	S	S	S
White	60,000	41,000	54,000	60,000	60,000	70,000	70,000	68,000	57,000
Other	40,000	S	S	S	S	S	S	S	S
Non-S&E managers	95,000	60,000	65,000	86,000	100,000	95,000	105,000	96,000	100,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	100,000	S	S	S	S	S	S	S	S
Black	65,000	S	S	S	S	S	S	S	S
Hispanic	85,000	S	S	S	S	S	S	S	S
White	98,000	53,000	65,000	86,000	100,000	96,000	109,000	96,000	100,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E postsecondary teachers	43,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	42,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	31,000	30,000	32,000	30,000	32,000	31,000	34,000	47,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	30,000	30,000	S	S	S	S	S	S	S
Hispanic	34,000	32,000	S	S	S	S	S	S	S
White	31,000	28,000	33,000	29,000	32,000	31,000	37,000	S	S
Other	S	S	S	S	S	S	S	S	S
Sales/marketing occupations	55,000	38,000	50,000	65,000	73,000	62,000	60,000	63,000	44,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	55,000	38,000	65,000	S	50,000	S	S	S	S
Black	41,000	36,000	S	S	S	S	S	S	S
Hispanic	45,000	31,000	S	S	S	S	S	S	S
White	57,000	39,000	48,000	65,000	80,000	73,000	60,000	63,000	50,000
Other	60,000	S	S	S	S	S	S	S	S
Social services/related occupations	31,000	28,000	33,000	31,000	35,000	34,000	36,000	50,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	29,000	S	S	S	S	S	S	S	S
Black	30,000	26,000	35,000	S	S	S	S	S	S
Hispanic	34,000	30,000	S	S	S	S	S	S	S
White	30,000	27,000	30,000	28,000	35,000	S	42,000	S	S
Other	S	S	S	S	S	S	S	S	S
Other non-S&E occupations	40,000	30,000	39,000	42,000	41,000	45,000	41,000	42,000	40,000

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	40,000	S	S	S	S	S	S	S	S
Asian	32,000	29,000	30,000	40,000	35,000	39,000	30,000	30,000	36,000
Black	40,000	31,000	32,000	40,000	44,000	41,000	50,000	S	S
Hispanic	31,000	28,000	35,000	26,000	28,000	36,000	40,000	S	S
White	40,000	30,000	40,000	45,000	43,000	50,000	45,000	42,000	39,000
Other	36,000	30,000	S	S	S	S	S	S	S
Master's degrees, all occupations	63,000	50,000	64,000	70,000	70,000	69,000	70,000	67,000	67,000
American Indian/Alaska Native	56,000	50,000	S	S	S	S	S	S	S
Asian	70,000	60,000	77,000	80,000	80,000	70,000	70,000	74,000	60,000
Black	55,000	50,000	58,000	61,000	55,000	55,000	60,000	62,000	S
Hispanic	55,000	47,000	57,000	60,000	60,000	66,000	52,000	60,000	S
White	64,000	50,000	62,000	70,000	70,000	70,000	71,000	67,000	68,000
Other	67,000	55,000	78,000	62,000	65,000	61,000	70,000	S	S
S&E occupations	73,000	60,000	72,000	80,000	84,000	82,000	80,000	80,000	79,000
American Indian/Alaska Native	61,000	S	S	S	S	S	S	S	S
Asian	75,000	62,000	80,000	82,000	90,000	90,000	74,000	87,000	87,000
Black	65,000	64,000	65,000	74,000	63,000	75,000	S	S	S
Hispanic	65,000	55,000	70,000	74,000	65,000	83,000	S	S	S
White	73,000	60,000	70,000	75,000	82,000	82,000	80,000	80,000	81,000
Other	74,000	63,000	76,000	S	S	S	S	S	S
Scientists	70,000	55,000	71,000	75,000	79,000	80,000	74,000	68,000	74,000
American Indian/Alaska Native	60,000	S	S	S	S	S	S	S	S
Asian	75,000	64,000	79,000	82,000	90,000	85,000	70,000	80,000	S
Black	64,000	62,000	63,000	66,000	S	S	S	S	S
Hispanic	56,000	55,000	56,000	59,000	S	S	S	S	S
White	69,000	51,000	69,000	73,000	75,000	80,000	75,000	66,000	80,000
Other	73,000	63,000	S	S	S	S	S	S	S
Biological/agricultural/other life scientists	49,000	40,000	48,000	54,000	54,000	57,000	47,000	50,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	47,000	36,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	56,000	45,000	S	S	S	S	S	S	S
White	50,000	40,000	48,000	58,000	54,000	60,000	55,000	S	S
Other	S	S	S	S	S	S	S	S	S
Agricultural/food scientists	47,000	38,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	47,000	40,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Biological/medical scientists	54,000	42,000	54,000	58,000	60,000	64,000	81,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	50,000	40,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	60,000	S	S	S	S	S	S	S	S
White	54,000	42,000	53,000	60,000	60,000	64,000	S	S	S
Other	S	S	S	S	S	S	S	S	S
Environmental life scientists	42,000	S	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	42,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	40,000	36,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	40,000	38,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Computer/mathematical scientists	77,000	66,000	80,000	81,000	85,000	87,000	81,000	78,000	82,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	77,000	66,000	80,000	85,000	90,000	90,000	81,000	S	S
Black	70,000	65,000	75,000	74,000	S	S	S	S	S
Hispanic	65,000	60,000	64,000	S	S	S	S	S	S
White	78,000	66,000	80,000	80,000	84,000	87,000	82,000	68,000	82,000
Other	80,000	S	S	S	S	S	S	S	S
Computer/information scientists	80,000	66,000	82,000	82,000	88,000	87,000	82,000	80,000	90,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	77,000	66,000	80,000	85,000	90,000	90,000	95,000	S	S
Black	74,000	72,000	80,000	S	S	S	S	S	S
Hispanic	70,000	60,000	70,000	S	S	S	S	S	S
White	80,000	66,000	84,000	80,000	88,000	88,000	83,000	78,000	90,000
Other	80,000	S	S	S	S	S	S	S	S
Mathematical scientists	72,000	60,000	72,000	82,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	73,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	73,000	60,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	45,000	40,000	40,000	49,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	47,000	40,000	40,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Physical/related scientists	66,000	46,000	60,000	66,000	84,000	90,000	73,000	66,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	57,000	20,000	58,000	S	S	S	S	S	S
Black	65,000	74,000	S	S	S	S	S	S	S
Hispanic	50,000	46,000	S	S	S	S	S	S	S
White	69,000	48,000	58,000	66,000	85,000	90,000	84,000	66,000	S
Other	S	S	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Chemists, except biochemists	66,000	56,000	66,000	66,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	58,000	S	62,000	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	76,000	63,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	75,000	46,000	S	75,000	87,000	82,000	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	75,000	46,000	S	75,000	86,000	82,000	S	S	S
Other	S	S	S	S	S	S	S	S	S
Physicists/astronomers	68,000	38,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	68,000	64,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	45,000	28,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	45,000	28,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other physical/related scientists	65,000	43,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	65,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	53,000	41,000	48,000	60,000	70,000	60,000	67,000	80,000	72,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	56,000	S	S	S	S	S	S	S	S
Black	58,000	S	S	S	S	S	S	S	S
Hispanic	44,000	44,000	S	S	S	S	S	S	S
White	52,000	40,000	46,000	65,000	70,000	60,000	68,000	80,000	72,000
Other	58,000	S	S	S	S	S	S	S	S
Economists	89,000	60,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	89,000	S	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Other	S	S	S	S	S	S	S	S	S
Political/related scientists	S	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	44,000	24,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	45,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Psychologists	48,000	40,000	49,000	53,000	60,000	55,000	60,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	58,000	S	S	S	S	S	S	S	S
Hispanic	44,000	S	S	S	S	S	S	S	S
White	46,000	38,000	45,000	50,000	60,000	55,000	60,000	S	S
Other	S	S	S	S	S	S	S	S	S
Sociologists/anthropologists	50,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	50,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other social/related scientists	65,000	49,000	51,000	75,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	65,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	65,000	43,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Engineers	80,000	68,000	77,000	85,000	89,000	86,000	88,000	90,000	84,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	76,000	62,000	80,000	80,000	90,000	91,000	75,000	90,000	S
Black	77,000	75,000	77,000	S	S	S	S	S	S
Hispanic	75,000	67,000	73,000	89,000	S	S	S	S	S
White	80,000	70,000	75,000	85,000	89,000	85,000	89,000	90,000	88,000
Other	80,000	60,000	S	S	S	S	S	S	S
Aerospace/aeronautical/astronautical engineers	82,000	69,000	80,000	94,000	80,000	84,000	95,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	80,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	97,000	S	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	81,000	69,000	80,000	S	80,000	S	95,000	S	S
Other	S	S	S	S	S	S	S	S	S
Chemical engineers	82,000	70,000	S	94,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	80,000	62,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	82,000	70,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	72,000	55,000	64,000	75,000	80,000	85,000	80,000	80,000	75,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	75,000	53,000	S	S	S	S	S	S	S
Black	72,000	S	S	S	S	S	S	S	S
Hispanic	60,000	50,000	S	S	S	S	S	S	S
White	73,000	56,000	62,000	73,000	85,000	87,000	84,000	85,000	S
Other	S	S	S	S	S	S	S	S	S
Electrical/computer hardware engineers	86,000	74,000	81,000	95,000	100,000	100,000	91,000	106,000	94,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	85,000	70,000	85,000	96,000	100,000	109,000	S	S	S
Black	77,000	S	S	S	S	S	S	S	S
Hispanic	78,000	S	S	S	S	S	S	S	S
White	88,000	75,000	83,000	94,000	97,000	93,000	91,000	97,000	79,000
Other	S	S	S	S	S	S	S	S	S
Industrial engineers	72,000	62,000	72,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	64,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	65,000	S	S	S	S	S	S	S	S
White	73,000	62,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Mechanical engineers	78,000	70,000	77,000	84,000	85,000	66,000	87,000	90,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	68,000	56,000	74,000	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	90,000	100,000	S	S	S	S	S	S	S
White	80,000	75,000	77,000	85,000	85,000	66,000	87,000	87,000	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	65,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	66,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other engineers	80,000	65,000	75,000	80,000	90,000	83,000	85,000	90,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	70,000	52,000	82,000	S	S	S	S	S	S
Black	78,000	S	S	S	S	S	S	S	S
Hispanic	80,000	67,000	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	82,000	68,000	74,000	81,000	90,000	84,000	90,000	90,000	S
Other	S	S	S	S	S	S	S	S	S
S&E-related occupations	56,000	48,000	58,000	62,000	60,000	61,000	65,000	60,000	62,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	64,000	58,000	65,000	80,000	70,000	57,000	70,000	S	S
Black	53,000	50,000	52,000	56,000	51,000	S	S	S	S
Hispanic	48,000	42,000	50,000	60,000	55,000	S	S	S	S
White	57,000	48,000	57,000	60,000	60,000	65,000	65,000	62,000	67,000
Other	57,000	S	S	S	S	S	S	S	S
Health-related occupations	56,000	51,000	60,000	63,000	61,000	55,000	65,000	52,000	55,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	57,000	56,000	S	S	70,000	S	S	S	S
Black	55,000	50,000	55,000	S	S	S	S	S	S
Hispanic	46,000	43,000	S	S	S	S	S	S	S
White	57,000	52,000	60,000	63,000	63,000	59,000	60,000	58,000	S
Other	S	S	S	S	S	S	S	S	S
S&E managers	95,000	83,000	90,000	96,000	92,000	103,000	120,000	108,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	100,000	S	S	S	S	S	S	S	S
Black	79,000	S	S	S	S	S	S	S	S
Hispanic	82,000	S	S	S	S	S	S	S	S
White	95,000	85,000	90,000	96,000	90,000	95,000	120,000	108,000	S
Other	S	S	S	S	S	S	S	S	S
S&E precollege teachers	48,000	40,000	47,000	48,000	50,000	53,000	56,000	55,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	54,000	S	S	S	S	S	S	S	S
Black	48,000	50,000	S	S	S	S	S	S	S
Hispanic	40,000	39,000	S	S	S	S	S	S	S
White	48,000	40,000	47,000	49,000	50,000	53,000	56,000	53,000	S
Other	S	S	S	S	S	S	S	S	S
S&E technicians/technologists	63,000	56,000	64,000	70,000	65,000	65,000	73,000	62,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	65,000	63,000	65,000	74,000	S	S	S	S	S
Black	52,000	S	S	S	S	S	S	S	S
Hispanic	51,000	S	S	S	S	S	S	S	S
White	63,000	54,000	63,000	73,000	65,000	50,000	75,000	S	S
Other	S	S	S	S	S	S	S	S	S
Other S&E-related occupations	62,000	41,000	52,000	70,000	65,000	80,000	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	55,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	69,000	43,000	S	65,000	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E occupations	60,000	48,000	58,000	67,000	65,000	65,000	70,000	64,000	60,000
American Indian/Alaska Native	50,000	S	S	S	S	S	S	S	S
Asian	60,000	52,000	75,000	62,000	70,000	60,000	67,000	50,000	S
Black	53,000	45,000	55,000	61,000	55,000	52,000	54,000	62,000	S
Hispanic	52,000	45,000	51,000	60,000	59,000	65,000	57,000	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	63,000	48,000	58,000	70,000	68,000	67,000	71,000	64,000	60,000
Other	68,000	49,000	78,000	S	S	S	S	S	S
Art/humanities/related occupations	50,000	45,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	55,000	48,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Management-related occupations	75,000	64,000	75,000	77,000	80,000	81,000	75,000	68,000	45,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	70,000	62,000	85,000	81,000	S	S	S	S	S
Black	72,000	61,000	75,000	S	S	S	S	S	S
Hispanic	73,000	85,000	S	S	S	S	S	S	S
White	75,000	65,000	75,000	77,000	90,000	82,000	80,000	70,000	45,000
Other	62,000	S	S	S	S	S	S	S	S
Non-S&E managers	100,000	82,000	99,000	102,000	112,000	100,000	98,000	100,000	98,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	120,000	S	S	S	S	S	S	S	S
Black	80,000	S	S	S	S	S	S	S	S
Hispanic	88,000	S	S	S	S	S	S	S	S
White	100,000	84,000	99,000	102,000	113,000	100,000	101,000	100,000	98,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E postsecondary teachers	44,000	43,000	40,000	48,000	40,000	54,000	44,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	45,000	45,000	39,000	48,000	40,000	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	49,000	42,000	42,000	51,000	55,000	52,000	55,000	68,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	43,000	S	S	S	S	S	S	S	S
Black	43,000	35,000	S	S	S	S	S	S	S
Hispanic	46,000	40,000	S	S	S	S	S	S	S
White	50,000	43,000	44,000	50,000	55,000	52,000	57,000	S	S
Other	S	S	S	S	S	S	S	S	S
Sales/marketing occupations	75,000	70,000	100,000	80,000	65,000	75,000	71,000	45,000	50,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	50,000	80,000	S	50,000	S	S	S	S	S
Black	63,000	S	S	S	S	S	S	S	S
Hispanic	70,000	S	S	S	S	S	S	S	S
White	75,000	70,000	100,000	82,000	75,000	80,000	73,000	45,000	50,000
Other	S	S	S	S	S	S	S	S	S
Social services/related occupations	43,000	38,000	42,000	47,000	46,000	48,000	55,000	55,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	45,000	S	S	S	S	S	S	S	S
Black	45,000	41,000	43,000	S	S	S	S	S	S
Hispanic	48,000	43,000	40,000	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	42,000	37,000	41,000	45,000	45,000	48,000	55,000	55,000	S
Other	49,000	S	S	S	S	S	S	S	S
Other non-S&E occupations	47,000	44,000	47,000	53,000	46,000	49,000	48,000	50,000	44,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	43,000	45,000	S	S	S	S	S	S	S
Black	48,000	50,000	S	S	S	S	S	S	S
Hispanic	37,000	40,000	S	S	S	S	S	S	S
White	49,000	44,000	48,000	59,000	50,000	50,000	53,000	50,000	S
Other	S	S	S	S	S	S	S	S	S
Doctorate degrees, all occupations	77,000	54,000	70,000	76,000	85,000	90,000	100,000	100,000	100,000
American Indian/Alaska Native	59,000	45,000	S	S	S	S	S	S	S
Asian	78,000	54,000	80,000	85,000	82,000	90,000	100,000	95,000	120,000
Black	60,000	52,000	56,000	60,000	72,000	71,000	77,000	84,000	S
Hispanic	63,000	50,000	62,000	67,000	75,000	54,000	87,000	115,000	S
White	80,000	54,000	68,000	75,000	86,000	90,000	100,000	100,000	100,000
Other	70,000	49,000	56,000	72,000	100,000	126,000	84,000	S	S
S&E occupations	75,000	52,000	70,000	78,000	80,000	86,000	92,000	93,000	100,000
American Indian/Alaska Native	57,000	S	S	S	S	S	S	S	S
Asian	76,000	58,000	76,000	85,000	80,000	90,000	100,000	93,000	102,000
Black	60,000	47,000	62,000	55,000	72,000	74,000	77,000	S	S
Hispanic	65,000	48,000	62,000	73,000	76,000	80,000	89,000	90,000	S
White	76,000	51,000	69,000	75,000	82,000	86,000	92,000	93,000	100,000
Other	70,000	60,000	53,000	70,000	80,000	74,000	84,000	S	S
Scientists	72,000	50,000	65,000	73,000	78,000	84,000	89,000	88,000	98,000
American Indian/Alaska Native	65,000	S	S	S	S	S	S	S	S
Asian	72,000	50,000	71,000	81,000	75,000	83,000	96,000	87,000	100,000
Black	57,000	45,000	60,000	55,000	72,000	70,000	70,000	S	S
Hispanic	61,000	46,000	57,000	72,000	75,000	65,000	89,000	S	S
White	73,000	50,000	63,000	72,000	80,000	85,000	90,000	88,000	99,000
Other	65,000	51,000	53,000	69,000	80,000	72,000	S	S	S
Biological/agricultural/other life scientists	67,000	40,000	60,000	72,000	80,000	84,000	90,000	93,000	98,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	60,000	40,000	54,000	76,000	73,000	87,000	100,000	80,000	S
Black	58,000	51,000	60,000	40,000	74,000	S	S	S	S
Hispanic	54,000	40,000	54,000	71,000	70,000	S	S	S	S
White	70,000	40,000	60,000	70,000	83,000	83,000	90,000	94,000	95,000
Other	60,000	S	53,000	S	S	S	S	S	S
Agricultural/food scientists	72,000	50,000	68,000	70,000	80,000	90,000	90,000	74,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	70,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	80,000	S	S	S	S	S	S	S	S
White	75,000	50,000	68,000	70,000	84,000	92,000	90,000	74,000	S
Other	S	S	S	S	S	S	S	S	S
Biological/medical scientists	67,000	40,000	62,000	80,000	83,000	90,000	103,000	106,000	105,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	56,000	40,000	51,000	79,000	75,000	85,000	100,000	S	S
Black	58,000	52,000	77,000	S	S	S	S	S	S
Hispanic	48,000	38,000	56,000	106,000	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	72,000	40,000	69,000	79,000	92,000	90,000	106,000	110,000	105,000
Other	67,000	S	S	S	S	S	S	S	S
Environmental life scientists	63,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	70,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	66,000	45,000	51,000	62,000	70,000	72,000	80,000	85,000	92,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	70,000	S	68,000	70,000	S	S	S	S	S
Black	55,000	S	S	S	S	S	S	S	S
Hispanic	60,000	S	49,000	65,000	S	S	S	S	S
White	66,000	45,000	51,000	58,000	70,000	72,000	78,000	85,000	94,000
Other	53,000	S	S	S	S	S	S	S	S
Computer/mathematical scientists	79,000	65,000	80,000	80,000	80,000	86,000	93,000	80,000	104,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	80,000	75,000	83,000	84,000	78,000	89,000	100,000	S	S
Black	40,000	40,000	62,000	S	S	S	S	S	S
Hispanic	67,000	46,000	67,000	S	S	S	S	S	S
White	80,000	63,000	77,000	80,000	82,000	85,000	90,000	80,000	104,000
Other	85,000	S	S	S	S	S	S	S	S
Computer/information scientists	87,000	75,000	85,000	98,000	93,000	90,000	90,000	94,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	85,000	81,000	85,000	96,000	100,000	S	S	S	S
Black	65,000	S	S	S	S	S	S	S	S
Hispanic	89,000	S	S	S	S	S	S	S	S
White	90,000	75,000	90,000	98,000	93,000	89,000	87,000	94,000	S
Other	S	S	S	S	S	S	S	S	S
Mathematical scientists	88,000	71,000	89,000	90,000	105,000	89,000	110,000	105,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	81,000	65,000	89,000	S	S	S	S	S	S
Black	74,000	S	S	S	S	S	S	S	S
Hispanic	67,000	S	S	S	S	S	S	S	S
White	95,000	82,000	88,000	93,000	102,000	99,000	111,000	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	62,000	48,000	56,000	62,000	64,000	80,000	88,000	68,000	100,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	63,000	60,000	70,000	66,000	S	S	S	S	S
Black	40,000	S	S	S	S	S	S	S	S
Hispanic	60,000	S	S	S	S	S	S	S	S
White	65,000	54,000	56,000	62,000	70,000	82,000	90,000	68,000	100,000
Other	S	S	S	S	S	S	S	S	S
Physical/related scientists	79,000	55,000	73,000	82,000	82,000	92,000	100,000	93,000	95,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	76,000	53,000	80,000	84,000	85,000	80,000	97,000	95,000	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	73,000	75,000	70,000	S	S	S	S	S	S
Hispanic	72,000	61,000	67,000	74,000	83,000	S	S	S	S
White	80,000	55,000	71,000	79,000	81,000	95,000	100,000	90,000	96,000
Other	80,000	S	S	S	S	S	S	S	S
Chemists, except biochemists	85,000	67,000	83,000	93,000	93,000	102,000	101,000	90,000	95,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	80,000	66,000	83,000	90,000	S	S	S	S	S
Black	75,000	S	S	S	S	S	S	S	S
Hispanic	74,000	S	S	S	S	S	S	S	S
White	90,000	68,000	84,000	94,000	98,000	105,000	105,000	105,000	95,000
Other	S	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	80,000	55,000	69,000	77,000	84,000	90,000	110,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	63,000	45,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	78,000	S	S	S	S	S	S	S	S
White	85,000	60,000	66,000	77,000	84,000	105,000	110,000	S	S
Other	S	S	S	S	S	S	S	S	S
Physicists/astronomers	90,000	50,000	80,000	92,000	99,000	100,000	107,000	118,000	120,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	76,000	48,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	94,000	55,000	83,000	100,000	102,000	104,000	103,000	118,000	120,000
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	64,000	48,000	53,000	63,000	64,000	72,000	79,000	81,000	90,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	67,000	S	S	S	S	S	S	S	S
Black	53,000	S	S	S	S	S	S	S	S
Hispanic	61,000	S	S	S	S	S	S	S	S
White	64,000	48,000	53,000	63,000	64,000	73,000	80,000	78,000	90,000
Other	72,000	S	S	S	S	S	S	S	S
Other physical/related scientists	80,000	70,000	80,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	80,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	80,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	67,000	51,000	60,000	67,000	73,000	80,000	83,000	85,000	100,000
American Indian/Alaska Native	55,000	S	S	S	S	S	S	S	S
Asian	68,000	60,000	63,000	83,000	76,000	80,000	S	S	S
Black	60,000	52,000	60,000	55,000	72,000	65,000	70,000	S	S
Hispanic	58,000	48,000	55,000	62,000	83,000	68,000	S	S	S
White	69,000	51,000	60,000	67,000	73,000	80,000	84,000	85,000	100,000
Other	60,000	S	48,000	S	S	S	S	S	S
Economists	105,000	78,000	102,000	105,000	130,000	130,000	125,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Asian	93,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	110,000	S	S	S	S	S	S	S	S
White	108,000	78,000	106,000	110,000	128,000	130,000	S	S	S
Other	S	S	S	S	S	S	S	S	S
Political/related scientists	75,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	84,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	61,000	48,000	52,000	60,000	65,000	71,000	75,000	85,000	97,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	65,000	62,000	60,000	71,000	75,000	S	S	S	S
Black	57,000	53,000	48,000	55,000	68,000	58,000	60,000	S	S
Hispanic	50,000	46,000	55,000	58,000	S	S	S	S	S
White	62,000	46,000	52,000	60,000	65,000	71,000	75,000	83,000	97,000
Other	50,000	S	S	S	S	S	S	S	S
Psychologists	70,000	54,000	65,000	70,000	80,000	85,000	87,000	86,000	97,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	62,000	54,000	S	S	S	S	S	S	S
Black	63,000	50,000	S	S	S	S	S	S	S
Hispanic	70,000	60,000	S	S	S	S	S	S	S
White	72,000	55,000	65,000	72,000	80,000	85,000	87,000	86,000	97,000
Other	68,000	S	S	S	S	S	S	S	S
Sociologists/anthropologists	63,000	62,000	61,000	74,000	70,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	63,000	62,000	63,000	S	68,000	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other social/related scientists	70,000	58,000	68,000	70,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	68,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	75,000	60,000	70,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Engineers	90,000	72,000	85,000	95,000	100,000	100,000	105,000	110,000	110,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	90,000	72,000	89,000	94,000	95,000	103,000	105,000	106,000	S
Black	80,000	77,000	72,000	85,000	S	S	S	S	S
Hispanic	80,000	68,000	92,000	76,000	S	S	94,000	S	S
White	91,000	72,000	84,000	97,000	100,000	100,000	106,000	112,000	108,000
Other	91,000	S	S	S	S	S	S	S	S
Aerospace/aeronautical/astronautical engineers	96,000	85,000	90,000	98,000	100,000	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	90,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	100,000	S	90,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Chemical engineers	90,000	78,000	87,000	100,000	100,000	111,000	100,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	90,000	S	87,000	100,000	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	92,000	75,000	86,000	100,000	109,000	S	97,000	S	S
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	78,000	60,000	78,000	81,000	91,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	75,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	79,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Electrical/computer hardware engineers	102,000	83,000	100,000	108,000	125,000	125,000	110,000	114,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	100,000	83,000	100,000	102,000	S	S	S	S	S
Black	95,000	S	S	S	S	S	S	S	S
Hispanic	92,000	S	S	S	S	S	S	S	S
White	108,000	81,000	105,000	118,000	125,000	S	110,000	120,000	S
Other	S	S	S	S	S	S	S	S	S
Industrial engineers	73,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	45,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Mechanical engineers	90,000	75,000	85,000	95,000	105,000	S	110,000	120,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	86,000	71,000	82,000	93,000	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	97,000	80,000	85,000	97,000	108,000	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	81,000	61,000	70,000	78,000	89,000	95,000	97,000	98,000	102,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	82,000	66,000	S	76,000	84,000	S	S	S	S
Black	70,000	S	S	S	S	S	S	S	S
Hispanic	70,000	S	S	S	S	S	S	S	S
White	82,000	60,000	70,000	81,000	90,000	93,000	97,000	100,000	104,000
Other	S	S	S	S	S	S	S	S	S
Other engineers	85,000	75,000	83,000	95,000	84,000	100,000	110,000	123,000	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	82,000	72,000	83,000	91,000	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	84,000	S	S	S	S	S	S	S	S
White	89,000	76,000	84,000	95,000	90,000	102,000	116,000	120,000	S
Other	S	S	S	S	S	S	S	S	S
S&E-related occupations	80,000	50,000	62,000	80,000	90,000	90,000	110,000	116,000	110,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	84,000	41,000	95,000	90,000	67,000	142,000	100,000	S	S
Black	70,000	53,000	45,000	160,000	74,000	S	S	S	S
Hispanic	72,000	132,000	60,000	63,000	106,000	S	S	S	S
White	80,000	50,000	60,000	74,000	94,000	90,000	110,000	114,000	110,000
Other	116,000	S	S	S	S	S	S	S	S
Health-related occupations	72,000	50,000	60,000	72,000	77,000	100,000	105,000	115,000	110,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	66,000	45,000	73,000	70,000	55,000	S	S	S	S
Black	83,000	55,000	52,000	160,000	S	S	S	S	S
Hispanic	62,000	180,000	60,000	S	S	S	S	S	S
White	72,000	50,000	60,000	72,000	78,000	100,000	110,000	114,000	107,000
Other	150,000	S	S	S	S	S	S	S	S
S&E managers	120,000	80,000	103,000	113,000	120,000	130,000	130,000	130,000	143,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	120,000	S	120,000	120,000	126,000	S	S	S	S
Black	99,000	S	S	S	S	S	S	S	S
Hispanic	120,000	S	S	S	S	S	S	S	S
White	120,000	82,000	100,000	110,000	120,000	130,000	132,000	130,000	143,000
Other	S	S	S	S	S	S	S	S	S
S&E precollege teachers	52,000	60,000	55,000	50,000	50,000	42,000	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	52,000	S	55,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
S&E technicians/technologists	62,000	36,000	72,000	62,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	50,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	72,000	72,000	65,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other S&E-related occupations	90,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E occupations	85,000	70,000	71,000	70,000	92,000	90,000	120,000	103,000	100,000

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	90,000	55,000	97,000	90,000	95,000	80,000	101,000	102,000	S
Black	61,000	58,000	55,000	59,000	70,000	62,000	76,000	S	S
Hispanic	63,000	45,000	65,000	63,000	61,000	16,000	85,000	S	S
White	87,000	80,000	70,000	70,000	95,000	100,000	124,000	105,000	100,000
Other	52,000	S	S	S	S	S	S	S	S
Art/humanities/related occupations	70,000	55,000	100,000	10,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	65,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	70,000	50,000	100,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Management-related occupations	87,000	87,000	105,000	82,000	97,000	70,000	100,000	100,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	90,000	S	117,000	95,000	S	S	S	S	S
Black	32,000	S	S	S	S	S	S	S	S
Hispanic	97,000	S	S	S	S	S	S	S	S
White	87,000	87,000	94,000	45,000	97,000	75,000	110,000	150,000	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E managers	115,000	85,000	107,000	105,000	115,000	112,000	145,000	150,000	135,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	136,000	S	111,000	130,000	135,000	140,000	165,000	S	S
Black	100,000	S	94,000	90,000	S	128,000	76,000	S	S
Hispanic	99,000	S	S	108,000	S	S	S	S	S
White	115,000	85,000	110,000	101,000	115,000	112,000	150,000	153,000	135,000
Other	140,000	S	S	S	S	S	S	S	S
Non-S&E postsecondary teachers	65,000	50,000	60,000	60,000	74,000	78,000	75,000	84,000	96,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	76,000	52,000	S	S	S	S	S	S	S
Black	60,000	S	S	S	S	S	S	S	S
Hispanic	58,000	45,000	S	S	S	S	S	S	S
White	65,000	50,000	59,000	55,000	76,000	75,000	75,000	84,000	101,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	61,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	61,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Sales/marketing occupations	125,000	180,000	100,000	80,000	95,000	110,000	150,000	170,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	95,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	150,000	180,000	100,000	80,000	100,000	110,000	150,000	200,000	S
Other	S	S	S	S	S	S	S	S	S
Social services/related occupations	51,000	36,000	50,000	59,000	60,000	S	S	S	S

TABLE 29. Median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, race/ethnicity, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	50,000	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	57,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other non-S&E occupations	56,000	50,000	87,000	50,000	61,000	55,000	70,000	62,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	56,000	S	S	S	S	S	S	S	S
Black	56,000	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	55,000	54,000	97,000	52,000	42,000	54,000	70,000	63,000	S
Other	S	S	S	S	S	S	S	S	S

S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] "Other" includes Native Hawaiian/Other Pacific Islander and non-Hispanic respondents reporting 2 or more races.

[b] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Salaries are for principal job and rounded to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE 30. Birthplace of scientists and engineers, by region and other selected characteristics: 2003

(Percent)

Characteristic	U.S. citizen at birth	Place of immigrants' birth: All immigrants	Asia	Europe	South America	Caribbean	Africa	North America (except United States)	Central America (including Mexico)	Other[a]
All scientists and engineers (*n*)	18,295,000	3,352,000	1,873,000	632,000	179,000	170,000	167,000	156,000	145,000	31,000
Age at first entry for 6 months or longer (years)										
Younger than 18	na	23.6	19.4	26.5	25.6	45.4	13.5	31.2	40.1	22.4
18–34	na	62.8	69.3	52.4	62.7	42.3	70.4	53.7	50.5	60.4
35 or older	na	13.6	11.3	21.0	11.7	12.3	16.2	15.2	9.3	17.2
Year of first entry for 6 months or longer										
1993 and earlier	na	75.3	74.1	76.0	76.0	87.4	74.2	69.1	81.2	73.9
1994–2003	na	24.7	25.9	24.0	24.0	12.6	25.8	30.9	18.8	26.1
Current and initial immigration status										
U.S. citizen, naturalized (current)	na	63.6	65.0	62.9	60.1	79.7	62.0	44.5	62.5	35.3
Permanent resident (initial)	na	33.2	32.6	36.9	28.0	46.3	28.7	25.8	34.0	12.3
Temporary resident visa for work (initial)	na	3.8	4.0	4.2	3.2	2.9	2.0	3.8	4.8	3.7
Temporary resident visa for study/training (initial)	na	14.4	17.9	6.8	14.8	9.7	20.1	7.0	9.6	5.9
Temporary resident visa as a dependent (initial)	na	7.0	6.9	7.6	8.2	6.9	3.9	6.8	7.9	11.7
Other temporary resident visa (initial)	na	5.2	3.7	7.4	5.9	14.0	7.2	1.1	6.1	1.7
Permanent resident (current)	na	25.6	22.9	29.3	25.8	17.5	30.0	40.2	29.4	48.5
Permanent resident (initial)	na	7.0	5.1	8.9	7.8	8.9	8.3	13.3	9.5	15.8
Temporary resident visa for work (initial)	na	5.7	5.1	7.7	3.3	0.5	6.1	14.8	4.5	7.5
Temporary resident visa for study/training (initial)	na	7.7	8.3	6.9	7.5	2.9	10.8	8.4	4.2	16.2
Temporary resident visa as a dependent (initial)	na	2.9	3.0	3.0	2.7	2.4	1.7	3.2	3.4	6.3
Other temporary resident visa (initial)	na	2.2	1.4	2.8	4.5	2.9	3.1	0.5	7.8	S
Temporary resident visa (current)	na	10.8	12.1	7.8	14.1	2.7	8.0	15.3	8.2	16.2
Permanent resident (initial)	na	0.1	*	S	S	S	S	S	S	S
Temporary resident visa for work (initial)	na	3.0	3.1	2.2	4.7	S	1.3	7.9	2.0	3.3
Temporary resident visa for study/training (initial)	na	5.9	7.0	4.5	5.7	1.2	3.5	6.3	3.5	9.1
Temporary resident visa as a dependent (initial)	na	1.1	1.3	0.6	2.8	S	1.3	S	0.8	S
Other temporary resident visa (initial)	na	0.7	0.6	0.4	S	S	1.9	S	1.9	S
Dual citizen?										
Yes	1.2	16.2	10.8	23.0	26.5	18.5	27.2	20.3	24.5	15.7
No	98.8	83.8	89.2	77.0	73.5	81.5	72.8	79.7	75.5	84.3
Place of postsecondary education										
All degrees earned in U.S.	99.2	38.7	34.0	36.9	44.6	71.0	43.8	44.7	49.8	44.6
Degrees earned abroad and in U.S.	0.5	18.7	24.3	10.6	13.3	6.1	17.4	13.4	10.6	15.3
All degrees earned abroad	0.2	42.6	41.7	52.5	42.1	22.9	38.9	41.9	39.6	40.1
Highest degree of educational attainment										
Bachelor's	60.5	51.1	49.9	45.7	58.6	58.2	53.8	58.0	62.8	49.9
Master's	27.1	30.2	32.1	31.7	26.6	25.8	26.9	21.4	23.1	22.4
Doctorate	3.9	9.4	9.1	13.6	6.2	3.0	11.1	8.4	3.5	22.7
Professional	8.5	9.3	8.9	9.1	8.7	12.9	8.3	12.2	10.7	4.9
Highest degree field										
S&E field	53.5	62.5	64.1	65.4	60.0	50.5	59.4	55.2	58.2	65.5
Biological/agricultural/environmental life sciences	8.6	8.4	8.4	8.5	7.0	6.8	11.0	9.3	7.7	12.9
Computer and mathematical sciences	7.0	12.6	15.0	9.6	7.4	9.7	10.9	7.2	9.8	14.7
Physical and related sciences	3.7	5.7	6.1	7.3	2.5	3.9	4.2	4.6	2.5	5.8
Social and related sciences	22.6	14.2	11.1	17.5	21.5	18.1	13.8	19.9	20.4	16.3
Engineering	11.5	21.6	23.4	22.5	21.5	12.0	19.5	14.1	17.7	15.9
S&E-related field	24.0	24.3	24.2	21.4	25.2	34.5	26.4	25.1	25.2	14.8
Non-S&E field	22.5	13.2	11.8	13.3	14.8	15.0	14.3	19.8	16.6	19.7

TABLE 30. Birthplace of scientists and engineers, by region and other selected characteristics: 2003

(Percent)

Characteristic	U.S. citizen at birth	Place of immigrants' birth								
		All immigrants	Asia	Europe	South America	Caribbean	Africa	North America (except United States)	Central America (including Mexico)	Other[a]
Occupation										
S&E occupation	20.7	30.5	34.8	29.1	21.5	15.6	24.2	26.2	21.5	33.1
Biological, agricultural, and other life scientists	1.9	3.1	3.1	3.8	1.8	1.3	2.9	3.6	1.7	6.2
Computer and mathematical scientists	8.3	14.5	18.0	12.2	8.9	6.5	9.5	9.5	8.8	12.3
Physical and related scientists	1.4	1.9	2.0	2.3	1.3	1.0	1.4	2.1	1.0	2.8
Social and related scientists	2.4	1.6	1.3	2.1	2.0	1.5	1.8	2.6	1.6	3.9
Engineers	6.8	9.4	10.4	8.7	7.7	5.2	8.6	8.3	8.3	7.9
S&E-related occupation	24.8	23.9	24.3	19.9	23.1	28.7	32.8	26.2	19.5	22.3
Non-S&E occupation	37.6	29.8	25.4	31.2	42.2	42.6	31.4	30.3	46.0	35.9
Not working, looking for work	2.5	4.2	4.7	4.2	3.5	3.9	3.2	2.1	2.8	1.7
Not in labor force	14.4	11.6	10.8	15.6	9.7	9.3	8.5	15.3	10.2	7.0
Most important reason for coming to U.S.										
Family-related reasons	na	37.1	35.0	41.6	36.2	45.5	24.0	42.4	44.8	35.7
Educational opportunities	na	29.7	35.0	15.2	35.3	21.4	44.8	17.4	24.2	25.7
Job or economic opportunities	na	20.8	20.5	23.9	17.1	10.2	17.8	31.7	20.9	21.5
Scientific or professional infrastructure	na	4.9	4.9	6.0	5.2	1.2	5.6	5.9	3.0	5.7
Other	na	7.4	4.6	13.3	6.1	21.7	7.9	2.6	7.0	11.4

na = not applicable; * = estimate < .05; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Other includes immigrants born in United States or its territories, Oceania, or abroad (not specified).

NOTES: See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Immigrants are temporary residents, permanent residents, or naturalized U.S. citizens. It is possible for immigrants to be born in the United States without claiming citizenship; it is also possible for foreign-born individuals to be considered native-born U.S. citizens if they were born abroad to American citizen parents. Numbers rounded to nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

Technical Appendix

During the production of this report, the America COMPETES Reauthorization Act of 2010 was signed into law. Section 505 of the bill renames the Division of Science Resources Statistics as the National Center for Science and Engineering Statistics (NCSES). The Center retains its reporting line to the Directorate for Social, Behavioral and Economic Sciences within the National Science Foundation. The new name signals the central role of NCSES in the collection, interpretation, analysis, and dissemination of objective data on the science and engineering enterprise.

The 2003 Scientists and Engineers Statistical Data System (SESTAT) is an integrated system of information about employment, education, and demographic characteristics of scientists and engineers in the United States. SESTAT was developed by the National Science Foundation (NSF) in 1993 to provide a comprehensive workforce database for policy analysis and general research.

Overview

SESTAT comprises three NSF-sponsored demographic surveys of scientists and engineers: the National Survey of College Graduates (NSCG), the National Survey of Recent College Graduates (NSRCG), and the Survey of Doctorate Recipients (SDR). The three component surveys have been conducted every 2 to 3 years for three decades and began using similar questionnaires, survey reference dates, data collection periods, and data-processing procedures in 1993 to facilitate integration for SESTAT. The three surveys were designed to provide maximum coverage of the target population, namely scientists and engineers, with special emphasis given to relatively rare populations (e.g., doctorate recipients, recent graduates, and minorities). Overall, SESTAT provides a comprehensive picture of the number and characteristics of individuals in the United States with bachelor's level or higher degrees and their employment, with a focus on those having science and engineering (S&E) degrees or working in S&E occupations.

Target Population Coverage

The 2003 SESTAT target population includes individuals who had the following characteristics as of the component surveys' reference week of 1 October 2003:

- Were living in the United States (the 50 states, District of Columbia, and Puerto Rico)
- Were not institutionalized
- Were 75 years of age or younger
- Had a bachelor's or higher degree in an S&E field or an S&E-related field before 1 April 2000; had a bachelor's or higher degree in any field before 1 April 2000 and held an S&E or S&E-related occupation on 1 October 2003; or earned a U.S. bachelor's or higher degree in a science, engineering, or health (SEH) field from 1 April 2000 to 30 June 2002.

Individuals who received their first bachelor's degree in a non-SEH field between 1 April 2000 and 1 October 2003 but who worked in a S&E or S&E-related occupation on the survey reference week are not covered in the target population nor are immigrants with non–U.S. earned bachelor's or higher degrees who arrived in the United States after 1 April 2000.

Because the 2003 SESTAT was created from three component surveys, cases identified in one component survey might also be eligible for another survey. For example, a U.S. resident who received a bachelor's degree before 1 April 2000, completed a master's degree in an SEH field in August 2000, and then earned an SEH doctoral degree in June 2002 has a probability of selection for each of the three component surveys in 2003. Consequently, SESTAT uses a unique linkage rule when integrating the component sample surveys in which each survey sample member is weighted according to the frame developed for that survey. Next, a series of overlap variables are calculated and assessed to identify cases that are eligible for more

than one survey. To remove these multiple selection opportunities, each case within the SESTAT target population is uniquely linked to one and only one component survey; that individual is included in the SESTAT integrated file only when he or she is selected for that linked survey.

Component Surveys

The 2003 National Survey of College Graduates

The NSCG has been conducted by the U.S. Bureau of the Census on behalf of the NSF since 1993 and is the largest of the three component surveys, representing approximately 90% of the SESTAT target population. The NSCG is used to study the occupations and career paths of U.S. residents with a bachelor's degree or higher (particularly in an SEH field). The NSCG is designed as a decade-long panel study of college graduates based on a sample of respondents from each decennial census long-form sample. It is conducted every 2 to 3 years throughout the decade.

The 2003 NSCG was the first cycle (i.e., a baseline) of data collection for the decade-long panel study that used the 2000 decennial census long form as the sample frame. It was designed to follow a nationally representative panel of bachelor's or higher S&E degree holders, including foreign-educated Ph.D.-level scientists and engineers who were in the United States on 1 April 2000. The NSCG panel is updated over the decade with new U.S. bachelor's and master's graduates with SEH degrees through supplemental samples added in from the National Survey of Recent College Graduates, described below.

The 2003 NSCG covered individuals with a bachelor's or higher degree in any field earned before 1 April 2000 who were younger than 76 years of age and resided in the United States during the reference week of 1 October 2003. The baseline NSCG also covered individuals who received a new SEH bachelor's or master's degree between 1 April 2000 and 30 June 2000 based on a supplemental sample from the 2001 NSRCG. Subsequent cycles of the NSCG panel study followed only those who had an S&E degree or had a non-S&E degree but worked in an S&E occupation on 1 October 2003. Stratified probability sampling was used in selecting individuals based on sex, race/ethnicity, disability status, U.S. citizenship, highest degree (bachelor's, master's, doctorate), and occupation. The total sample size for the 2003 NSCG was 170,797. The weighted response rate for the 2003 NSCG was 73.1%.

The 2003 NSCG questionnaire is available at http://www.nsf.gov/statistics/srvygrads /survey2003/grads_2003.pdf. Additional information on the NSCG is available at http://www.nsf.gov/statistics/srvygrads/.

The 2003 National Survey of Recent College Graduates

The NSRCG has been conducted every 2 to 3 years by a survey contractor for the NSF since 1974. The NSRCG is a cross-sectional survey that provides data on continuing education enrollment (e.g., doctoral training), and/or the early employment experiences of recent U.S. SEH graduates, including whether they were able to find employment (particularly in their field of study) and the attributes of that employment. As noted above, the NSRCG also provides a sampling frame from which to replenish the NSCG decade-long panel study.

The 2003 NSRCG target population consisted of individuals who received bachelor's or master's SEH degrees from a U.S. college or university within the preceding two academic years prior to the survey reference date, defined as July 2000 through June 2002. The 2003 NSRCG used a two-stage sample design. In the first stage, a stratified nationally representative sample of 300 colleges and universities was selected from a universe of approximately 1,800 U.S. academic institutions, with probability proportional to size. Each sampled institution was asked to provide lists of graduates for sampling. In the second stage, the graduates with bachelor's or master's degrees in SEH fields were identified and included in the 2003 NSRCG sampling frame. Stratified-probability sampling was used in selecting individuals based on sex, race/ethnicity, highest degree (bachelor's or master's), and major

field of study. The total sample size for the 2003 NSRCG was 18,000 graduates (9,000 from each academic year): 13,061 bachelor's and 4,939 master's degree recipients. Of the 300 sampled institutions in the first stage, 296 provided lists of graduates for sampling respondents for the 2003 NSRCG, representing a weighted response rate of 98.7%. Data collection in the second stage resulted in a weighted response rate of 63.3%.

The 2003 NSRCG questionnaire is available at http://www.nsf.gov/statistics/srvyrecentgrads /survey2003/recentgrads_2003.pdf. Additional information on the NSRCG is available at http://www.nsf.gov/statistics/recentgrads/.

The Survey of Doctorate Recipients

SDR has been conducted every 2 to 3 years by a survey contractor for the NSF since 1973. The SDR is a panel study based on a nationally representative cohort of SEH doctorate recipients from U.S. institutions. The purpose of the SDR is to study the career paths of this highly trained cohort of scientists and engineers. Recipients of professional degrees, such as those awarded in medicine, law, or education, are not included in the SDR. The 2003 SDR covered the portion of the SESTAT target population that received doctoral degrees in an SEH field from U.S. academic institutions. Baseline data on education and demographic characteristics among SDR sampled members come from the Survey of Earned Doctorates (SED), an annual census of research doctorates earned in the United States that began with the 1957–58 academic year (http://www.nsf.gov/statistics/srvydoctorates/). The annual SED provides a sampling frame for updating the SDR panel over time with a supplemental sample of new U.S. SEH doctorate recipients added into each survey cycle.

The 2003 SDR target population consisted of individuals who earned an SEH research doctoral degree from a U.S. college or university, were less than 76 years of age, and were residing in the United States as of the reference date of 1 October 2003. Stratified probability sampling was used in selecting individuals based on sex, race/ethnicity, disability status, U.S. citizenship, and major field of degree. The 2003 SDR sample consisted of 39,957 cases, including 36,548 from the existing cohort cases carried over from the 2001 SDR and 3,409 new cohort cases who earned a Ph.D. in the United States between 1 July 2000 and 30 June 2002. The overall weighted response rate was 79.5%.

The 2003 SDR questionnaire is available at http://www.nsf.gov/statistics/srvydoctoratework /survey2003/sdr_2003.pdf. Additional information on the SDR is available at http://www.nsf.gov/statistics/srvydoctoratework/.

Data Processing

Because the three SESTAT component surveys typically are conducted by different survey data collection contractors, NSF uses standardized guidelines for quality assurance in data editing and data processing. In addition, several questionnaire items are deemed critical data elements, such as employment status and type of occupation if employed, and must be completed by the respondent to be considered an acceptable unit response.

Acceptable unit responses undergo general pre-editing and computer-assisted data entry in accordance with standardized guidelines. Multiple coding procedures (occupation, education, other-specify, geographic coding, and educational institution coding) are involved in processing a unit response.

A completed interview must include full reporting on a minimum set of critical data items, such as U.S. residency and occupation. If necessary, telephone follow-ups are used to obtain answers to critical data items as well as other noncritical but important items, such as degree information and employer location. Except for items with verbatim responses, missing data for noncritical items are imputed.

Sample selection probabilities for the SESTAT component surveys vary substantially and reflect the differential rates of stratified sampling in each survey for creating sufficient

sample sizes to reliably estimate domains of interest in each survey's target population. For the SESTAT data, sampling weights are developed for respondents in each component survey and for the combined and integrated SESTAT.

Reliability of Estimates

Sampling Errors

Because SESTAT comprises three sample surveys, estimates are subject to sampling errors.

Standard Error Tables

To measure the precision of the SESTAT estimates, standard errors were calculated for each estimate. Thus, each statistical data table in this report has a corresponding standard error table in this appendix. For example, table A-1 is the standard error table that corresponds to the estimates presented in table 1. The standard errors can be used to construct confidence intervals for the estimates. To construct a 95% confidence interval about an estimate, multiply the standard error of an estimate by a z-score of 1.96. Add the result to the estimate to establish the upper bound of the confidence interval and subtract it from the estimate to establish the lower bound of the confidence interval.

Nonsampling Errors

Quality assurance procedures are included throughout the various stages of data collection and data processing to reduce possibilities for nonsampling error. Sources of nonsampling error include (1) nonresponse error, which arises when the characteristics of respondents differ systematically from nonrespondents; (2) measurement error, which arises when the variables of interest cannot be precisely measured; (3) coverage error, which arises when some members of the target population are excluded from the frame and thus do not have a chance to be selected for the sample; (4) respondent error, which occurs when respondents provide incorrect data; and (5) processing error, which can arise at the point of data editing, coding, or data entry. The analyst should be aware of potential nonsampling errors, but these errors are more difficult to detect and quantify than sampling errors.

Definitions and Explanations

Education data. These data were derived from responses to several questions on type of degree and field of study earned by the respondent. The education categories of respondents in each of the three SESTAT component surveys were based on respondents' field of study for the highest degree held in each survey's reference week. The following is a link to the list of major groups of SESTAT education categories for 2003 or later: http://sestat.nsf.gov /docs/ed03maj.html.

Geographic regions. The 9 geographic regions listed in tables 15 and 24 include the 50 states, the District of Columbia, and Puerto Rico. Details on the states included in each division can be found at http://sestat.nsf.gov/docs/location.html.

Occupation data. The occupational classification of the respondent was based on the codified job category for the respondent's principal job held during the reference week, or it was based on the codified job category for last job held, if the respondent was previously employed but not employed in the reference week. The codified job category was derived through a post-data collection coding process in which responses to several employment-related questions were evaluated. The questions used to determine the job category for each respondent included the job title, job description, respondent-selected job category, and primary work activities. The following is a link to the list of major groups of SESTAT occupation categories for 2003 or later: http://sestat.nsf.gov/docs/occ03maj.html.

Race/ethnicity. All graduates, both U.S. citizens and non-U.S. citizens, are included in the race/ethnicity data presented in this report. American Indian/Alaska Native, Asian, black, Native Hawaiian/Other Pacific Islander, white, and persons reporting more than one race refer to non-Hispanic individuals only.

Salary. Median annual salaries are reported for the principal job and are rounded to the nearest $1,000. For individuals employed by educational institutions, no accommodation was made to convert academic-year salaries to calendar-year salaries.

Employment sector. Sector of employment is a derived variable based on responses to multiple survey questions. In the detailed tables, the category *4-year educational institution* includes 4-year colleges or universities, medical schools (including university-affiliated hospitals or medical centers), and university-affiliated research institutions. *Other educational institution* includes 2-year colleges, community colleges, or technical institutes and other educational institutions.

Disability. The SESTAT component surveys ask the degree of difficulty—none, slight, moderate, severe, unable to do—an individual has in seeing (with glasses/contact lenses), hearing (with hearing aid), walking without assistance, or lifting 10 pounds. Those respondents who answered "moderate,"severe," or "unable to do" for any activity were classified as having a disability.

Table	
	Standard errors for labor force status
A-1	by degree background
A-2	by level of highest degree
	Standard errors for occupations
	by level and field of highest degree
A-3	by relationship to highest degree
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A-7	all U.S. scientists and engineers, by level and field of highest degree
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	Standard errors for employment
	by level and field of highest degree
A-12	by sex and employment sector
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A-19	by sex and years since highest degree
A-20	by race/ethnicity and years since highest degree

Standard errors for median annual salaries
by level and field of highest degree
A-21 by sex and employment sector
A-22 by employment sector and primary/secondary work activity
A-23 by sex and race/ethnicity
A-24 by geographic division of employment
by level of highest degree and occupation
A-25 by employment sector
A-26 by citizenship status and employment sector
A-27 by age and primary/secondary work activity
A-28 by sex and years since highest degree
A-29 by race/ethnicity and years since highest degree
Standard errors for immigrant scientists and engineers
A-30 birthplace, by region and other characteristics

TABLE A-1. Standard errors for U.S. scientists and engineers, by degree background and labor force status: 2003

Degree background	All scientists and engineers	In labor force					Not in labor force
		Employed, by occupation				Unemployed	
		Total	S&E	S&E related	Non-S&E		
Scientists and engineers	84,000	82,000	39,000	48,000	70,000	19,000	44,000
Educated in S&E (holds at least one S&E degree)	76,000	73,000	30,000	31,000	66,000	17,000	37,000
Highest degree in S&E field	73,000	67,000	28,000	25,000	58,000	14,000	35,000
Highest degree in S&E-related field	23,000	21,000	5,000	18,000	9,000	3,000	9,000
Highest degree in non-S&E field	39,000	34,000	10,000	9,000	33,000	7,000	16,000
No S&E degree but holds at least one S&E-related degree	47,000	44,000	9,000	33,000	29,000	7,000	23,000
Highest degree is in an S&E-related field	45,000	41,000	9,000	33,000	25,000	7,000	22,000
Highest degree is in a non-S&E field	19,000	17,000	3,000	8,000	14,000	2,000	7,000
Non-S&E degree only	32,000	32,000	22,000	23,000	ne	ne	ne

ne = not eligible; does not meet SESTAT population criteria.

S&E = science and engineering.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-2. Standard errors for U.S. scientists and engineers, by labor force status, degree background, and level of highest degree: 2003

Labor force status and degree background	Level of highest degree									
	All degree levels		Bachelor's		Master's		Doctorate		Professional	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Scientists and engineers	84,000	-	73,000	0.2	50,000	0.2	11,000	0.1	26,000	0.1
Employed	82,000	-	69,000	0.2	47,000	0.2	11,000	0.1	24,000	0.1
Employed in an S&E occupation	39,000	-	32,000	0.4	20,000	0.4	5,000	0.1	3,000	0.1
Educated in S&E (holds at least one S&E degree)	30,000	-	26,000	0.4	17,000	0.4	5,000	0.1	3,000	0.1
No S&E degree but holds at least one S&E-related degree	9,000	-	7,000	1.9	5,000	1.9	1,000	0.5	1,000	0.6
Non-S&E degree only	22,000	-	19,000	1.2	10,000	1.2	1,000	0.2	1,000	0.2
Employed in an S&E-related occupation	48,000	-	39,000	0.4	23,000	0.4	5,000	0.1	15,000	0.3
Educated in S&E (holds at least one S&E degree)	31,000	-	21,000	0.7	16,000	0.6	2,000	0.1	14,000	0.6
No S&E degree but holds at least one S&E-related degree	33,000	-	28,000	0.7	16,000	0.6	3,000	0.1	12,000	0.5
Non-S&E degree only	23,000	-	20,000	1.2	10,000	1.1	3,000	0.3	2,000	0.3
Employed in a non-S&E occupation	70,000	-	58,000	0.4	38,000	0.4	8,000	0.1	18,000	0.2
Educated in S&E (holds at least one S&E degree)	66,000	-	55,000	0.5	34,000	0.4	7,000	0.1	18,000	0.3
No S&E degree but holds at least one S&E-related degree	29,000	-	23,000	1.3	16,000	1.2	4,000	0.4	6,000	0.5
Non-S&E degree only	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Unemployed	19,000	-	15,000	1.5	10,000	1.4	2,000	0.3	5,000	0.8
Educated in S&E (holds at least one S&E degree)	17,000	-	14,000	1.5	9,000	1.4	2,000	0.3	4,000	0.8
No S&E degree but hold at least one S&E-related degree	7,000	-	6,000	4.5	4,000	4.3	1,000	0.9	1,000	1.6
Non-S&E degree only	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Not in labor force	44,000	-	38,000	0.7	22,000	0.6	5,000	0.2	10,000	0.3
Educated in S&E (holds at least one S&E degree)	37,000	-	31,000	0.7	19,000	0.7	5,000	0.2	8,000	0.3
No S&E degrees but holds at least one S&E-related degree	23,000	-	19,000	1.5	11,000	1.5	1,000	0.2	6,000	0.9
Non-S&E degree only	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne

- = no value, standard errors are not calculated for proportions of 100%; ne = not eligible, does not meet SESTAT population criteria.

S&E = science and engineering.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand; standard errors of percents are rounded up to the nearest tenth.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-3. Standard errors for relationship of highest degree to type of occupation of U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		Relationship of highest degree to type of occupation											
			S&E job				S&E-related job				Non-S&E job			
	Number	Percent	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
All levels and fields[a]	82,000	-	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.3	0.2	0.2	0.2
S&E fields	67,000	-	0.3	0.3	0.2	0.1	0.2	0.2	0.1	0.1	0.4	0.3	0.3	0.4
Sciences	64,000	-	0.3	0.3	0.2	0.1	0.3	0.2	0.2	0.1	0.4	0.3	0.4	0.5
Biological/agricultural/environmental life sciences	27,000	-	0.8	0.6	0.4	0.3	0.8	0.7	0.4	0.2	1.0	0.7	0.7	0.9
Agricultural sciences	12,000	-	1.4	1.3	0.7	0.2	1.4	0.9	1.0	0.3	2.1	2.5	2.2	2.4
Biological sciences	25,000	-	1.0	0.7	0.5	0.3	1.0	0.9	0.6	0.3	1.2	0.8	0.8	1.0
Environmental life sciences	9,000	-	3.3	2.8	1.5	0.9	2.5	1.7	1.7	0.7	3.4	1.7	2.5	2.9
Computer/mathematical sciences	24,000	-	0.9	0.9	0.5	0.2	0.6	0.6	0.3	0.1	1.0	0.6	0.8	0.8
Computer/information sciences	18,000	-	1.1	1.1	0.6	0.2	0.7	0.6	0.3	0.1	1.1	0.7	0.8	0.7
Mathematics/statistics	16,000	-	1.4	1.0	1.0	0.4	1.3	1.2	0.6	0.3	1.8	1.2	1.5	1.5
Physical/related sciences	16,000	-	1.2	0.9	0.7	0.4	0.9	0.7	0.4	0.3	1.2	0.7	1.0	1.2
Chemistry, except biochemistry	12,000	-	1.8	1.4	1.2	0.5	1.4	1.2	0.6	0.5	1.9	1.1	1.8	1.6
Earth/atmospheric/ocean sciences	9,000	-	2.6	2.2	1.7	0.7	1.7	1.2	0.8	0.8	2.8	1.2	2.0	2.6
Physics/astronomy	6,000	-	2.6	1.8	1.3	1.2	1.3	0.8	0.9	0.5	2.7	1.3	2.4	1.7
Other physical sciences	5,000	-	3.9	2.6	2.9	0.7	3.3	1.7	2.6	S	5.2	5.2	4.7	5.3
Social/related sciences	50,000	-	0.4	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.5	0.6	0.7	0.7
Economics	20,000	-	0.9	0.5	0.5	0.5	0.5	0.2	0.4	0.4	1.0	1.7	1.8	1.7
Political/related sciences	23,000	-	0.9	0.4	0.5	0.7	0.6	0.3	0.4	0.3	1.1	1.3	1.6	1.6
Psychology	28,000	-	0.6	0.5	0.3	0.2	0.6	0.4	0.4	0.3	0.9	0.9	1.0	1.2
Sociology/anthropology	20,000	-	0.7	0.5	0.4	0.3	0.9	0.4	0.6	0.5	1.1	1.3	1.6	1.7
Other social sciences	17,000	-	0.9	0.7	0.5	0.4	1.4	1.0	0.8	0.6	1.6	1.8	2.0	2.0
Engineering	28,000	-	0.6	0.6	0.4	0.2	0.4	0.3	0.2	0.1	0.6	0.4	0.5	0.4
Aerospace/aeronautical/astronautical engineering	7,000	-	4.2	3.4	1.8	1.4	3.0	2.7	0.7	1.4	4.1	3.6	2.9	2.2
Chemical engineering	7,000	-	2.3	1.8	1.7	0.8	1.3	0.7	0.9	0.6	2.3	1.4	2.0	1.7
Civil/architectural engineering	12,000	-	1.7	1.6	0.9	0.3	1.0	0.8	0.5	0.2	1.6	1.2	1.3	0.9
Electrical/computer engineering	13,000	-	1.0	0.9	0.7	0.2	0.6	0.5	0.4	0.1	1.0	0.6	0.7	0.7
Industrial engineering	9,000	-	3.0	2.7	1.8	0.4	1.3	0.7	1.0	0.7	3.1	2.1	2.6	2.6
Mechanical engineering	15,000	-	1.5	1.2	0.9	0.4	0.7	0.5	0.5	0.2	1.6	1.0	1.4	1.0
Other engineering	12,000	-	1.7	1.5	1.1	0.7	1.1	1.0	0.5	0.2	1.8	1.2	1.4	1.4
S&E-related fields	39,000	-	0.2	0.2	0.1	0.1	0.5	0.5	0.3	0.1	0.5	0.3	0.3	0.4
Health	31,000	-	0.2	0.1	0.1	0.1	0.5	0.6	0.3	0.1	0.5	0.3	0.3	0.4
Science/mathematics teacher education	15,000	-	0.9	0.6	0.4	0.4	2.2	2.2	0.6	0.5	2.2	1.9	1.8	1.7
Technology/technical fields	14,000	-	2.0	1.9	0.9	0.4	1.2	0.9	0.7	0.4	2.2	2.0	1.9	1.8
Other S&E-related fields	15,000	-	1.2	1.2	0.5	0.3	2.5	2.4	0.9	S	2.5	1.9	2.0	1.7
Non-S&E fields	45,000	-	0.5	0.3	0.3	0.3	0.5	0.5	0.3	0.3	0.7	0.6	0.4	0.3

TABLE A-3. Standard errors for relationship of highest degree to type of occupation of U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		Relationship of highest degree to type of occupation											
			S&E job				S&E-related job				Non-S&E job			
	Number	Percent	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Arts/humanities	16,000	-	2.3	1.5	0.9	2.1	2.3	1.8	1.0	1.8	1.8	1.2	1.1	0.9
Education, except science/mathematics teacher education	25,000	-	0.8	0.4	0.5	0.4	1.4	1.4	0.6	0.7	1.5	1.3	0.7	0.7
Management/administration	28,000	-	0.9	0.7	0.7	0.4	0.9	0.7	0.5	0.6	1.0	0.9	0.8	0.4
Sales/marketing	10,000	-	3.3	2.0	2.4	1.8	2.6	0.9	1.6	2.0	3.4	3.0	2.6	1.9
Social services/related	13,000	-	1.2	0.9	0.3	0.9	1.7	1.2	0.8	1.1	1.9	1.9	1.1	1.0
Other non-S&E fields	23,000	-	0.8	0.5	0.6	0.4	0.9	0.6	0.6	0.5	1.2	1.4	0.8	0.6
Bachelor's degrees	69,000	-	0.3	0.2	0.2	0.1	0.3	0.3	0.2	0.2	0.4	0.3	0.3	0.3
S&E fields	60,000	-	0.4	0.3	0.2	0.1	0.3	0.2	0.2	0.1	0.4	0.4	0.4	0.5
Sciences	59,000	-	0.4	0.3	0.2	0.1	0.3	0.3	0.2	0.1	0.5	0.4	0.6	0.6
Biological/agricultural/environmental life sciences	26,000	-	0.9	0.7	0.5	0.3	1.1	0.9	0.6	0.3	1.3	0.9	0.9	1.2
Agricultural sciences	12,000	-	1.5	1.3	0.8	0.2	1.6	1.0	1.1	0.3	2.3	3.0	2.6	2.9
Biological sciences	24,000	-	1.1	0.8	0.7	0.4	1.3	1.2	0.8	0.4	1.5	1.0	1.0	1.4
Environmental life sciences	7,000	-	3.8	3.2	1.5	1.1	2.9	2.1	2.0	0.9	4.0	1.9	3.1	3.2
Computer/mathematical sciences	21,000	-	1.2	1.1	0.6	0.2	0.8	0.7	0.3	0.1	1.3	0.8	1.0	1.0
Computer/information sciences	16,000	-	1.4	1.4	0.8	0.2	0.8	0.7	0.3	0.1	1.4	0.8	1.1	1.0
Mathematics/statistics	15,000	-	1.7	1.1	1.3	0.5	1.8	1.5	0.8	0.3	2.2	1.6	2.0	1.9
Physical/related sciences	14,000	-	1.7	1.2	1.2	0.6	1.3	1.0	0.6	0.4	1.8	1.0	1.6	1.7
Chemistry, except biochemistry	11,000	-	2.6	1.9	1.8	0.7	1.9	1.6	0.8	0.7	2.8	1.6	2.6	2.2
Earth/atmospheric/ocean sciences	8,000	-	3.6	2.9	2.7	1.0	2.3	1.7	1.0	1.1	3.8	1.5	2.6	3.6
Physics/astronomy	6,000	-	4.0	2.2	2.5	2.2	2.1	1.5	1.6	0.4	4.6	2.1	4.4	3.4
Other physical sciences	5,000	-	4.3	2.7	3.2	S	4.1	2.1	3.2	S	6.1	6.0	5.5	6.1
Social/related sciences	45,000	-	0.3	0.2	0.2	0.2	0.5	0.2	0.3	0.2	0.6	0.7	0.8	0.8
Economics	19,000	-	0.9	0.4	0.5	0.6	0.6	0.2	0.5	0.4	1.0	2.0	2.1	2.0
Political/related sciences	21,000	-	0.9	0.3	0.5	0.8	0.7	0.4	0.3	0.4	1.2	1.4	1.8	1.9
Psychology	25,000	-	0.6	0.3	0.4	0.3	0.9	0.5	0.6	0.5	1.1	1.2	1.4	1.8
Sociology/anthropology	20,000	-	0.6	0.3	0.4	0.3	1.0	0.4	0.6	0.5	1.1	1.4	1.9	1.9
Other social sciences	16,000	-	1.0	0.7	0.6	0.5	1.6	1.1	1.0	0.7	1.9	2.1	2.4	2.4
Engineering	25,000	-	0.8	0.7	0.5	0.2	0.5	0.4	0.3	0.1	0.8	0.6	0.7	0.6
Aerospace/aeronautical/astronautical engineering	7,000	-	4.6	3.6	2.4	1.7	3.9	3.5	0.8	S	4.8	4.6	3.6	2.8
Chemical engineering	7,000	-	2.9	2.3	2.1	0.6	1.6	0.9	1.1	0.8	2.8	1.7	2.4	2.2
Civil/architectural engineering	11,000	-	1.9	1.8	1.1	0.3	1.2	1.0	0.6	0.3	2.0	1.5	1.7	1.0
Electrical/computer engineering	11,000	-	1.3	1.2	0.9	0.3	0.7	0.6	0.5	0.2	1.4	0.9	0.9	0.9
Industrial engineering	8,000	-	3.4	3.3	1.9	0.4	1.6	0.7	1.3	0.9	3.7	2.6	3.3	3.3
Mechanical engineering	13,000	-	1.7	1.4	1.0	0.5	0.8	0.6	0.6	0.2	1.8	1.2	1.7	1.2
Other engineering	10,000	-	2.4	2.0	1.5	0.9	1.7	1.6	0.8	0.2	2.6	1.7	1.9	2.1

TABLE A-3. Standard errors for relationship of highest degree to type of occupation of U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		Relationship of highest degree to type of occupation											
			S&E job				S&E-related job				Non-S&E job			
	Number	Percent	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
S&E-related fields	36,000	-	0.3	0.3	0.2	0.1	0.8	0.8	0.4	0.2	0.8	0.5	0.5	0.6
Health	29,000	-	0.2	0.2	0.1	0.1	0.9	1.1	0.6	0.3	0.9	0.4	0.6	0.7
Science/mathematics teacher education	13,000	-	0.8	0.5	0.5	0.4	3.0	2.9	1.0	0.7	3.1	2.8	2.7	2.8
Technology/technical fields	13,000	-	2.2	2.1	1.0	0.4	1.4	1.1	0.6	0.4	2.5	2.2	2.1	2.0
Other S&E-related fields	13,000	-	1.0	0.7	0.7	0.4	3.0	3.0	1.2	S	2.9	2.4	2.2	2.3
Non-S&E fields	29,000	-	1.2	0.7	0.9	0.9	1.2	1.0	0.8	1.0	0.7	0.5	0.4	0.2
Arts/humanities	15,000	-	2.8	2.0	1.3	2.7	2.8	2.2	1.4	2.4	0.7	0.7	S	S
Education, except science/mathematics teacher education	11,000	-	1.9	0.7	1.2	1.4	2.7	3.1	1.9	2.6	2.2	1.6	S	0.7
Management/administration	18,000	-	1.9	1.4	1.6	1.0	1.9	1.6	1.2	1.5	1.1	0.8	0.7	0.2
Sales/marketing	5,000	-	5.6	3.5	4.6	4.4	5.4	2.0	3.8	5.0	S	S	S	S
Social services/related	5,000	-	5.9	1.7	1.4	5.9	6.2	4.7	3.0	5.7	3.2	3.0	S	S
Other non-S&E fields	11,000	-	2.8	1.9	2.0	1.8	2.7	2.4	2.3	2.2	1.3	1.0	0.8	S
Master's degrees	47,000	-	0.4	0.3	0.2	0.1	0.4	0.4	0.2	0.1	0.5	0.5	0.4	0.3
S&E fields	28,000	-	0.8	0.7	0.4	0.2	0.5	0.4	0.3	0.1	0.8	0.6	0.6	0.6
Sciences	25,000	-	0.9	0.8	0.4	0.2	0.6	0.5	0.3	0.2	1.0	0.8	0.8	0.7
Biological/agricultural/environmental life sciences	9,000	-	2.1	1.9	1.1	0.7	1.8	1.6	1.0	0.3	2.4	1.8	1.9	1.8
Agricultural sciences	4,000	-	5.6	5.2	1.6	S	3.9	3.3	2.2	S	6.8	4.7	7.2	4.0
Biological sciences	7,000	-	2.5	2.1	0.9	0.9	2.2	1.9	1.1	0.4	2.9	2.2	2.1	2.1
Environmental life sciences	4,000	-	6.3	5.7	5.3	1.6	4.4	2.7	S	S	6.2	3.9	3.3	6.7
Computer/mathematical sciences	11,000	-	1.7	1.7	0.9	0.3	1.1	1.0	0.5	0.3	1.6	1.1	1.1	0.8
Computer/information sciences	10,000	-	1.9	2.0	1.0	0.3	1.3	1.2	0.6	0.1	1.9	1.2	1.3	0.9
Mathematics/statistics	5,000	-	3.0	2.2	2.1	0.8	2.2	1.9	1.1	1.0	3.1	2.2	2.1	1.8
Physical/related sciences	7,000	-	2.7	2.4	1.5	0.7	2.2	1.7	1.1	0.9	2.8	1.5	2.0	2.2
Chemistry, except biochemistry	4,000	-	4.7	4.1	2.9	0.5	3.8	3.3	2.2	S	4.7	1.3	1.1	4.9
Earth/atmospheric/ocean sciences	4,000	-	4.4	4.0	2.2	1.1	3.1	2.3	1.7	S	4.3	2.3	4.1	2.2
Physics/astronomy	3,000	-	5.5	4.6	2.6	2.3	4.0	2.7	2.0	1.8	5.4	3.5	4.7	S
Other physical sciences	1,000	-	10.9	10.4	S	S	5.8	S	S	S	12.9	S	S	S
Social/related sciences	19,000	-	1.1	0.9	0.5	0.4	0.8	0.5	0.4	0.3	1.3	1.4	1.3	1.2
Economics	6,000	-	3.0	2.0	1.6	1.1	1.4	S	0.5	S	3.1	4.1	4.4	3.8
Political/related sciences	8,000	-	2.5	1.7	1.6	1.1	1.8	0.5	1.6	S	2.9	3.2	3.2	3.4
Psychology	14,000	-	1.5	1.3	0.5	0.6	1.0	0.8	0.5	0.3	1.6	1.9	1.6	1.7
Sociology/anthropology	5,000	-	4.6	4.0	2.1	1.2	1.4	S	S	S	4.9	5.0	5.3	4.0
Other social sciences	6,000	-	2.5	1.8	1.6	0.8	3.0	2.7	1.3	0.5	3.6	3.8	4.3	3.7
Engineering	12,000	-	1.1	1.1	0.8	0.3	0.6	0.5	0.4	0.1	1.1	0.8	0.7	0.7
Aerospace/aeronautical/astronautical engineering	2,000	-	6.1	6.9	3.1	2.5	3.9	S	S	S	6.0	1.6	3.8	S

TABLE A-3. Standard errors for relationship of highest degree to type of occupation of U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		Relationship of highest degree to type of occupation											
			S&E job				S&E-related job				Non-S&E job			
	Number	Percent	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Chemical engineering	3,000	-	5.9	5.2	3.5	4.0	2.9	S	2.6	S	5.7	3.3	5.2	3.2
Civil/architectural engineering	5,000	-	2.9	2.9	1.6	0.5	1.9	1.8	0.9	S	3.1	2.3	1.3	2.5
Electrical/computer engineering	6,000	-	1.7	1.7	1.3	0.4	1.0	0.7	0.6	S	1.4	1.1	0.6	0.9
Industrial engineering	2,000	-	5.0	4.0	4.1	0.7	2.2	2.1	0.9	S	4.8	4.0	3.1	S
Mechanical engineering	5,000	-	3.3	2.6	2.3	0.7	1.7	0.9	1.6	S	2.9	1.9	1.9	2.0
Other engineering	5,000	-	2.7	2.5	1.6	1.1	1.5	1.1	0.9	0.4	2.7	1.7	2.4	1.2
S&E-related fields	20,000	-	0.6	0.6	0.2	0.1	1.2	1.3	0.5	0.3	1.2	0.9	0.7	0.7
Health	16,000	-	0.5	0.4	0.3	0.1	1.4	1.5	0.7	0.4	1.3	1.0	0.6	0.8
Science/mathematics teacher education	8,000	-	1.6	1.2	0.5	S	3.3	3.4	0.9	0.8	3.3	2.6	1.9	2.2
Technology/technical fields	4,000	-	3.9	3.6	2.6	S	3.0	2.0	2.5	S	4.0	2.8	3.5	3.0
Other S&E-related fields	7,000	-	3.5	3.4	0.5	S	4.5	4.5	0.9	S	4.3	2.6	4.2	2.3
Non-S&E fields	34,000	-	0.6	0.4	0.4	0.3	0.7	0.6	0.3	0.3	0.9	0.9	0.6	0.5
Arts/humanities	9,000	-	3.8	1.5	1.3	3.3	4.0	3.4	1.3	1.9	4.7	3.6	3.8	2.7
Education, except science/mathematics teacher education	21,000	-	0.8	0.6	0.5	0.3	1.6	1.5	0.6	0.4	1.8	1.7	0.9	1.0
Management/administration	20,000	-	1.2	0.8	0.7	0.4	0.8	0.6	0.4	0.4	1.3	1.3	1.1	0.7
Sales/marketing	8,000	-	3.4	2.6	2.5	0.6	1.6	0.7	1.2	S	3.7	4.2	4.0	3.0
Social services/related	11,000	-	1.3	1.1	0.3	0.4	1.7	1.4	0.7	0.9	1.9	2.2	1.4	1.1
Other non-S&E fields	12,000	-	2.0	1.2	1.3	0.8	1.8	1.3	1.1	0.6	2.5	3.2	2.0	1.6
Doctorate degrees	11,000	-	0.7	0.6	0.3	0.2	0.5	0.5	0.2	0.1	0.7	0.7	0.3	0.3
S&E fields	5,000	-	0.4	0.4	0.3	0.1	0.2	0.2	0.1	0.1	0.4	0.2	0.2	0.2
Sciences	5,000	-	0.5	0.5	0.3	0.1	0.3	0.2	0.1	0.1	0.4	0.3	0.2	0.3
Biological/agricultural/environmental life sciences	3,000	-	0.8	0.9	0.5	0.2	0.6	0.5	0.3	0.1	0.7	0.4	0.3	0.4
Agricultural sciences	1,000	-	2.8	2.6	1.4	0.5	1.9	1.8	0.6	0.4	2.9	1.1	1.3	2.9
Biological sciences	3,000	-	0.9	1.0	0.5	0.2	0.7	0.5	0.3	0.2	0.6	0.5	0.3	0.3
Environmental life sciences	500	-	2.6	3.1	2.0	1.1	2.3	2.1	S	S	2.3	1.5	1.6	1.2
Computer/mathematical sciences	2,000	-	1.8	2.1	1.2	0.5	1.0	0.5	0.9	0.2	1.5	1.3	0.6	0.5
Computer/information sciences	1,000	-	3.0	3.2	2.0	0.5	2.6	0.6	2.6	S	2.0	1.4	1.5	0.2
Mathematics/statistics	2,000	-	2.1	2.7	1.4	0.7	0.7	0.6	0.3	0.3	2.0	1.8	0.6	0.7
Physical/related sciences	2,000	-	1.0	0.9	0.7	0.4	0.6	0.5	0.3	0.2	0.9	0.5	0.5	0.7
Chemistry, except biochemistry	2,000	-	1.2	1.2	0.8	0.5	0.9	0.8	0.4	0.2	1.0	0.6	0.8	0.7
Earth/atmospheric/ocean sciences	1,000	-	1.6	1.9	1.3	0.9	0.9	0.6	0.5	0.4	1.5	1.0	0.6	0.9
Physics/astronomy	1,000	-	1.4	1.4	1.2	0.6	0.9	0.5	0.5	0.5	1.3	1.2	0.5	0.4
Other physical sciences	1,000	-	15.8	11.2	13.1	2.6	2.6	S	S	S	16.9	S	1.3	S
Social/related sciences	2,000	-	0.7	0.7	0.3	0.1	0.2	0.2	0.2	0.1	0.7	0.5	0.5	0.4
Economics	1,000	-	1.9	2.0	1.0	0.3	0.4	0.3	0.3	S	1.9	1.6	1.0	1.0

TABLE A-3. Standard errors for relationship of highest degree to type of occupation of U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		Relationship of highest degree to type of occupation											
			S&E job				S&E-related job				Non-S&E job			
	Number	Percent	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Political/related sciences	1,000	-	2.5	2.4	1.3	0.5	0.5	0.2	0.3	S	2.5	2.1	2.3	1.2
Psychology	1,000	-	0.9	0.9	0.4	0.2	0.3	0.3	0.2	0.1	0.8	0.5	0.5	0.7
Sociology/anthropology	1,000	-	1.9	2.0	0.7	0.3	0.6	0.4	0.4	0.3	1.8	1.4	1.1	0.7
Other social sciences	1,000	-	2.7	2.9	1.0	0.7	1.3	0.6	1.2	S	2.7	2.3	1.8	0.8
Engineering	2,000	-	0.8	1.0	0.7	0.3	0.4	0.3	0.3	0.2	0.8	0.6	0.4	0.3
Aerospace/aeronautical/astronautical engineering	1,000	-	3.4	5.8	2.9	2.0	1.4	S	1.0	S	2.9	1.1	2.4	S
Chemical engineering	1,000	-	2.9	2.9	1.9	0.9	1.1	0.8	0.6	0.6	2.8	2.3	1.7	1.0
Civil/architectural engineering	1,000	-	2.5	2.9	2.4	0.6	1.1	1.0	S	S	2.3	1.8	0.9	1.6
Electrical/computer engineering	1,000	-	1.6	1.8	1.3	0.5	0.6	0.4	0.4	0.2	1.5	1.3	0.9	0.4
Industrial engineering	500	-	4.9	5.0	3.3	S	S	S	S	S	4.8	3.8	2.9	S
Mechanical engineering	1,000	-	1.9	2.0	1.8	0.7	1.3	0.9	0.8	0.4	1.6	1.3	1.0	0.8
Other engineering	1,000	-	1.3	1.7	1.5	0.6	0.9	0.7	0.6	0.4	1.0	0.6	0.7	0.5
S&E-related fields	4,000	-	2.7	2.4	0.8	0.3	3.8	3.6	0.5	1.2	4.5	4.7	0.5	0.6
Health	3,000	-	2.2	2.0	0.9	0.3	3.1	3.2	0.7	1.6	2.4	2.3	0.5	0.9
Science/mathematics teacher education	2,000	-	9.6	9.4	S	S	S	S	S	S	11.7	12.0	S	S
Technology/technical fields	1,000	-	12.4	13.2	S	S	S	S	S	S	S	S	S	S
Other S&E-related fields	3,000	-	10.4	10.4	S	S	S	S	S	S	20.9	21.4	S	S
Non-S&E fields	8,000	-	1.8	1.4	0.7	0.8	2.3	2.1	1.1	S	2.6	3.2	1.7	1.7
Arts/humanities	2,000	-	4.2	2.3	S	3.5	S	S	S	S	4.9	7.2	5.6	6.9
Education, except science/mathematics teacher education	6,000	-	2.6	2.1	1.2	S	4.0	3.6	1.7	S	4.6	5.3	2.6	1.5
Management/administration	2,000	-	5.2	4.6	S	S	S	S	S	S	5.1	7.3	S	S
Sales/marketing	500	-	S	S	S	S	S	S	S	S	9.7	14.3	S	S
Social services/related	3,000	-	3.6	2.6	S	S	S	S	S	S	6.2	7.2	3.9	S
Other non-S&E fields	3,000	-	5.4	5.0	S	S	7.7	7.7	S	S	7.9	6.1	5.6	7.5

- = no value, standard errors are not calculated for proportions of 100%; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand; standard errors of percents are rounded up to the nearest tenth.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-4. Standard errors for occupational category of employed U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		S&E occupations					S&E-related occupations					Non-S&E occupations
	Number	Percent	Computer/ mathematical scientists	Biological/ agricultural/ other life scientists	Physical/ related scientists	Social/ related scientists	Engineers	Health occupations	S&E managers	S&E precollege teachers	S&E technicians and technologists	Other S&E-related jobs	
All levels and fields[a]	82,000	-	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.3
S&E fields	67,000	-	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.4
Sciences	64,000	-	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.4
Biological/agricultural/environmental life sciences	27,000	-	0.3	0.6	0.3	0.1	0.3	0.8	0.2	0.3	0.4	0.1	1.0
Agricultural sciences	12,000	-	0.3	1.2	0.5	0.1	0.5	1.1	0.1	0.3	0.7	S	2.1
Biological sciences	25,000	-	0.4	0.8	0.3	0.1	0.2	1.0	0.2	0.4	0.4	0.1	1.2
Environmental life sciences	9,000	-	1.3	2.3	1.7	0.7	1.5	0.9	0.8	0.6	2.1	S	3.4
Computer/mathematical sciences	24,000	-	0.9	0.1	0.1	0.1	0.3	0.1	0.3	0.4	0.4	0.2	1.0
Computer/information sciences	18,000	-	1.1	0.1	S	0.1	0.4	0.1	0.5	0.2	0.5	0.1	1.1
Mathematics/statistics	16,000	-	1.4	0.1	0.1	0.2	0.3	0.3	0.2	1.0	0.7	0.5	1.8
Physical/related sciences	16,000	-	0.5	0.3	1.0	0.2	0.5	0.5	0.3	0.5	0.4	0.1	1.2
Chemistry, except biochemistry	12,000	-	0.7	0.6	1.7	0.3	0.5	0.9	0.4	0.8	0.7	S	1.9
Earth/atmospheric/ocean sciences	9,000	-	1.3	0.2	2.2	0.1	1.5	0.7	0.6	1.2	0.8	S	2.8
Physics/astronomy	6,000	-	1.5	0.2	1.4	0.2	1.4	0.3	0.8	0.7	0.7	0.1	2.7
Other physical sciences	5,000	-	1.8	0.7	2.9	S	1.3	2.1	2.1	1.1	1.0	S	5.2
Social/related sciences	50,000	-	0.2	0.1	0.1	0.2	0.1	0.3	0.1	0.1	0.1	0.1	0.5
Economics	20,000	-	0.7	0.2	S	0.5	0.2	0.2	0.3	0.2	0.3	0.1	1.0
Political/related sciences	23,000	-	0.7	0.1	S	0.5	0.4	0.4	0.3	0.3	0.2	S	1.1
Psychology	28,000	-	0.3	0.1	S	0.5	0.1	0.5	0.2	0.2	0.2	S	0.9
Sociology/anthropology	20,000	-	0.4	0.1	0.1	0.5	0.1	0.7	0.2	0.3	0.2	S	1.1
Other social sciences	17,000	-	0.6	0.1	0.2	0.7	0.1	1.0	0.1	0.7	0.6	S	1.6
Engineering	28,000	-	0.4	0.1	0.1	0.1	0.6	0.1	0.2	0.1	0.2	0.1	0.6
Aerospace/aeronautical/astronautical engineering	7,000	-	2.0	S	0.2	S	3.8	S	2.7	S	0.7	S	4.1
Chemical engineering	7,000	-	0.9	0.1	0.4	S	2.0	0.6	1.0	0.5	0.5	S	2.3
Civil/architectural engineering	12,000	-	0.6	S	0.1	S	1.6	S	0.5	0.1	0.5	0.7	1.6
Electrical/computer engineering	13,000	-	0.9	0.1	0.1	0.1	0.9	0.2	0.4	0.1	0.4	0.1	1.0
Industrial engineering	9,000	-	1.3	S	S	S	2.9	S	0.8	S	0.9	S	3.1
Mechanical engineering	15,000	-	0.4	S	0.2	S	1.4	0.1	0.5	0.2	0.5	S	1.6
Other engineering	12,000	-	0.9	0.3	0.3	0.2	1.5	0.4	0.8	0.4	0.6	S	1.8
S&E-related fields	39,000	-	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.2	0.1	0.2	0.5
Health	31,000	-	0.1	0.1	0.1	0.1	0.1	0.6	0.2	0.1	0.1	S	0.5
Science/mathematics teacher education	15,000	-	0.7	0.1	0.4	S	0.3	0.7	S	2.2	0.3	S	2.2
Technology/technical fields	14,000	-	1.5	S	S	S	1.6	0.5	0.6	0.3	0.9	S	2.2
Other S&E-related fields	15,000	-	0.4	S	S	0.7	1.0	S	0.4	S	0.5	2.3	2.5

TABLE A-4. Standard errors for occupational category of employed U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		S&E occupations					S&E-related occupations					Non-S&E occupations
	Number	Percent	Computer/ mathematical scientists	Biological/ agricultural/ other life scientists	Physical/ related scientists	Social/ related scientists	Engineers	Health occupations	S&E managers	S&E precollege teachers	S&E technicians and technologists	Other S&E-related jobs	
Non-S&E fields	45,000	-	0.4	0.1	0.1	0.2	0.2	0.4	0.2	0.4	0.2	0.1	0.7
Arts/humanities	16,000	-	2.0	0.2	0.4	1.1	1.1	1.7	0.7	1.5	1.1	0.7	1.8
Education, except science/mathematics teacher education	25,000	-	0.6	0.2	0.1	0.4	0.2	0.8	0.2	1.4	0.3	0.2	1.5
Management/administration	28,000	-	0.7	0.2	0.2	0.4	0.5	0.6	0.4	0.4	0.5	0.2	1.0
Sales/marketing	10,000	-	2.6	S	S	2.1	1.5	2.1	1.0	0.8	1.2	S	3.4
Social services/related	13,000	-	0.8	0.1	S	1.0	0.3	1.3	0.4	0.6	0.9	S	1.9
Other non-S&E fields	23,000	-	0.6	0.3	0.1	0.4	0.3	0.7	0.4	0.4	0.3	0.1	1.2
Bachelor's degrees	69,000	-	0.2	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.4
S&E fields	60,000	-	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.4
Sciences	59,000	-	0.3	0.2	0.1	0.1	0.1	0.3	0.1	0.2	0.2	0.1	0.5
Biological/agricultural/environmental life sciences	26,000	-	0.4	0.7	0.3	0.1	0.3	1.0	0.2	0.4	0.5	0.1	1.3
Agricultural sciences	12,000	-	0.4	1.2	0.6	S	0.6	1.2	S	S	0.8	S	2.3
Biological sciences	24,000	-	0.5	0.9	0.3	0.1	0.3	1.3	0.3	0.6	0.5	S	1.5
Environmental life sciences	7,000	-	1.0	2.6	2.1	S	1.9	1.1	S	0.4	2.6	S	4.0
Computer/mathematical sciences	21,000	-	1.1	0.1	0.1	0.1	0.4	0.2	0.4	0.5	0.5	0.2	1.3
Computer/information sciences	16,000	-	1.4	S	S	0.2	0.6	0.2	0.6	0.2	0.5	S	1.4
Mathematics/statistics	15,000	-	1.6	S	0.1	0.2	0.4	0.3	0.3	1.3	1.0	0.6	2.2
Physical/related sciences	14,000	-	0.8	0.4	1.4	0.2	0.8	0.8	0.4	0.7	0.6	S	1.8
Chemistry, except biochemistry	11,000	-	0.9	0.8	2.3	S	0.6	1.4	0.6	1.0	0.9	S	2.8
Earth/atmospheric/ocean sciences	8,000	-	2.1	0.2	2.7	S	2.4	0.7	S	1.5	1.2	S	3.8
Physics/astronomy	6,000	-	2.8	0.3	1.1	S	2.6	S	1.2	1.0	1.4	S	4.6
Other physical sciences	5,000	-	1.7	S	3.6	S	1.2	2.6	S	1.0	1.2	S	6.1
Social/related sciences	45,000	-	0.3	0.1	0.1	0.2	0.1	0.3	0.1	0.2	0.2	0.1	0.6
Economics	19,000	-	0.8	0.2	S	0.3	0.2	0.2	0.3	S	0.3	0.1	1.0
Political/related sciences	21,000	-	0.7	S	S	0.5	0.4	0.4	0.3	0.3	0.2	S	1.2
Psychology	25,000	-	0.5	0.1	S	0.4	0.1	0.8	0.2	0.3	0.3	S	1.1
Sociology/anthropology	20,000	-	0.5	0.1	S	0.4	S	0.7	0.2	0.4	0.2	S	1.1
Other social sciences	16,000	-	0.7	S	0.2	0.7	0.2	1.3	S	0.8	0.8	S	1.9
Engineering	25,000	-	0.4	0.1	0.1	0.1	0.8	0.2	0.3	0.1	0.3	0.1	0.8
Aerospace/aeronautical/astronautical engineering	7,000	-	2.3	S	S	S	4.2	S	3.6	S	0.8	S	4.8
Chemical engineering	7,000	-	0.7	S	0.4	S	2.7	0.8	1.3	0.5	0.5	S	2.8
Civil/architectural engineering	11,000	-	0.6	S	S	S	1.9	S	0.6	S	0.6	0.8	2.0
Electrical/computer engineering	11,000	-	1.0	S	S	S	1.1	0.3	0.4	0.1	0.5	0.1	1.4
Industrial engineering	8,000	-	1.5	S	S	S	3.5	S	1.1	S	1.1	S	3.7

TABLE A-4. Standard errors for occupational category of employed U.S. scientists and engineers, by level and field of highest degree: 2003
(Percent distribution)

Level and field of highest degree	All occupations		S&E occupations					S&E-related occupations					Non-S&E occupations
	Number	Percent	Computer/ mathematical scientists	Biological/ agricultural/ other life scientists	Physical/ related scientists	Social/ related scientists	Engineers	Health occupations	S&E managers	S&E precollege teachers	S&E technicians and technologists	Other S&E-related jobs	
Mechanical engineering	13,000	-	0.5	S	S	S	1.7	0.1	0.6	0.3	0.5	S	1.8
Other engineering	10,000	-	1.3	0.4	0.5	S	2.1	0.5	1.3	0.5	1.0	S	2.6
S&E-related fields	36,000	-	0.2	0.1	0.1	0.1	0.2	0.8	0.2	0.3	0.2	0.3	0.8
Health	29,000	-	0.2	0.1	0.1	0.1	0.1	1.0	0.3	0.1	0.1	S	0.9
Science/mathematics teacher education	13,000	-	0.5	S	0.4	S	0.4	1.1	S	3.1	0.5	S	3.1
Technology/technical fields	13,000	-	1.5	S	S	S	1.8	0.6	0.5	S	1.0	S	2.5
Other S&E-related fields	13,000	-	0.5	S	S	0.5	0.8	S	0.5	S	0.8	2.9	2.9
Non-S&E fields	29,000	-	0.9	0.3	0.2	0.5	0.5	1.0	0.5	0.8	0.7	0.3	0.7
Arts/humanities	15,000	-	2.5	0.3	0.6	1.5	1.3	2.4	1.0	1.4	1.6	1.0	0.7
Education, except science/mathematics teacher education	11,000	-	1.6	0.4	S	0.4	0.7	2.5	0.7	3.1	1.1	S	2.2
Management/administration	18,000	-	1.8	0.5	0.2	0.7	0.9	1.4	0.9	0.9	1.2	0.2	1.1
Sales/marketing	5,000	-	5.0	S	S	3.9	2.9	5.2	S	1.7	3.0	S	S
Social services/related	5,000	-	5.5	S	S	S	1.9	5.9	S	S	4.7	S	3.2
Other non-S&E fields	11,000	-	2.2	1.1	0.4	1.5	1.3	2.5	1.6	1.6	1.5	S	1.3
Master's degrees	47,000	-	0.3	0.1	0.1	0.2	0.2	0.3	0.1	0.2	0.1	0.1	0.5
S&E fields	28,000	-	0.5	0.2	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.1	0.8
Sciences	25,000	-	0.6	0.3	0.3	0.5	0.2	0.3	0.2	0.3	0.3	0.1	1.0
Biological/agricultural/environmental life sciences	9,000	-	1.0	1.8	0.6	0.1	0.4	1.3	0.6	0.9	0.6	S	2.4
Agricultural sciences	4,000	-	S	5.3	1.2	S	1.2	3.3	S	1.8	S	S	6.8
Biological sciences	7,000	-	1.0	2.2	0.7	S	0.3	1.8	0.7	1.1	0.8	S	2.9
Environmental life sciences	4,000	-	5.0	4.9	2.3	S	2.7	S	S	S	1.1	S	6.2
Computer/mathematical sciences	11,000	-	1.7	0.1	S	0.3	0.4	0.2	0.6	0.6	0.8	0.3	1.6
Computer/information sciences	10,000	-	1.9	S	S	0.3	0.4	0.1	0.9	0.5	1.0	S	1.9
Mathematics/statistics	5,000	-	2.9	S	S	0.6	0.8	S	0.4	1.8	1.3	1.1	3.1
Physical/related sciences	7,000	-	1.1	0.6	2.3	S	1.0	0.8	0.9	1.7	0.8	S	2.8
Chemistry, except biochemistry	4,000	-	2.0	1.4	4.2	S	1.1	1.3	S	3.2	2.2	S	4.7
Earth/atmospheric/ocean sciences	4,000	-	1.0	0.7	4.1	S	1.6	S	S	2.4	0.6	S	4.3
Physics/astronomy	3,000	-	3.2	S	3.9	S	2.4	S	2.6	2.9	1.1	S	5.4
Other physical sciences	1,000	-	S	S	S	S	S	S	S	S	S	S	12.9
Social/related sciences	19,000	-	0.5	0.1	0.1	1.0	0.2	0.5	0.3	0.3	0.2	S	1.3
Economics	6,000	-	1.4	S	S	2.4	0.5	S	S	S	S	S	3.1
Political/related sciences	8,000	-	1.5	S	S	2.0	0.4	1.1	S	0.4	S	S	2.9
Psychology	14,000	-	0.5	0.2	S	1.3	0.3	0.8	0.3	0.4	S	S	1.6

TABLE A-4. Standard errors for occupational category of employed U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		S&E occupations					S&E-related occupations					Non-S&E occupations
	Number	Percent	Computer/ mathematical scientists	Biological/ agricultural/ other life scientists	Physical/ related scientists	Social/ related scientists	Engineers	Health occupations	S&E managers	S&E precollege teachers	S&E technicians and technologists	Other S&E-related jobs	
Sociology/anthropology	5,000	-	1.4	S	S	4.2	S	1.1	S	S	S	S	4.9
Other social sciences	6,000	-	1.6	0.3	0.8	1.7	S	1.6	S	2.0	0.9	S	3.6
Engineering	12,000	-	0.7	0.1	0.2	0.1	1.1	0.2	0.4	0.1	0.4	0.3	1.1
Aerospace/aeronautical/astronautical engineering	2,000	-	3.8	S	S	S	6.9	S	S	S	S	S	6.0
Chemical engineering	3,000	-	4.1	S	1.2	S	5.2	S	S	S	1.8	S	5.7
Civil/architectural engineering	5,000	-	1.1	S	S	S	2.8	S	1.2	S	0.7	1.3	3.1
Electrical/computer engineering	6,000	-	1.6	S	0.1	S	1.6	S	0.7	S	0.6	S	1.4
Industrial engineering	2,000	-	3.2	S	S	S	4.4	S	0.6	S	1.2	S	4.8
Mechanical engineering	5,000	-	1.4	S	S	S	3.2	S	1.2	S	1.4	S	2.9
Other engineering	5,000	-	1.3	0.6	0.7	0.5	2.5	S	0.9	S	0.4	S	2.7
S&E-related fields	20,000	-	0.3	0.2	0.2	0.3	0.3	1.1	0.3	0.6	0.1	0.5	1.2
Health	16,000	-	0.2	0.3	0.2	0.2	0.1	1.4	0.4	0.1	0.1	S	1.3
Science/mathematics teacher education	8,000	-	1.3	S	0.7	S	S	1.1	S	3.2	S	S	3.3
Technology/technical fields	4,000	-	3.4	S	S	S	3.2	S	2.7	1.6	1.2	S	4.0
Other S&E-related fields	7,000	-	0.4	S	S	2.0	2.6	S	S	S	S	4.5	4.3
Non-S&E fields	34,000	-	0.4	0.1	0.1	0.3	0.3	0.4	0.2	0.5	0.2	0.1	0.9
Arts/humanities	9,000	-	1.8	S	S	1.2	2.4	1.7	S	3.5	1.3	S	4.7
Education, except science/mathematics teacher education	21,000	-	0.6	0.2	S	0.5	0.2	0.8	0.2	1.5	0.3	S	1.8
Management/administration	20,000	-	0.8	0.1	0.3	0.4	0.7	0.5	0.5	0.3	0.4	0.3	1.3
Sales/marketing	8,000	-	2.2	S	S	2.4	1.4	0.6	0.9	S	S	S	3.7
Social services/related	11,000	-	0.4	S	S	1.2	0.2	1.4	0.4	0.5	0.8	S	1.9
Other non-S&E fields	12,000	-	1.4	0.7	0.3	1.2	0.6	1.3	0.8	0.7	0.6	S	2.5
Doctorate degrees	11,000	-	0.3	0.4	0.2	0.3	0.2	0.4	0.1	0.3	0.1	0.2	0.7
S&E fields	5,000	-	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.4
Sciences	5,000	-	0.4	0.4	0.3	0.3	0.1	0.2	0.1	0.1	0.2	0.1	0.4
Biological/agricultural/environmental life sciences	3,000	-	0.5	0.9	0.3	0.1	0.1	0.5	0.3	0.1	0.2	S	0.7
Agricultural sciences	1,000	-	0.5	2.8	0.8	0.4	0.4	0.5	1.1	S	1.5	S	2.9
Biological sciences	3,000	-	0.6	1.0	0.3	0.1	0.1	0.6	0.3	0.1	0.2	S	0.6
Environmental life sciences	500	-	1.0	3.0	2.0	1.4	1.6	S	2.0	S	S	S	2.3
Computer/mathematical sciences	2,000	-	1.8	0.3	0.2	0.2	0.5	0.1	0.3	0.4	0.9	0.1	1.5
Computer/information sciences	1,000	-	3.1	S	S	0.6	0.8	S	0.7	S	2.6	S	2.0
Mathematics/statistics	2,000	-	2.3	0.4	0.2	0.2	0.6	0.2	0.2	0.6	0.3	0.2	2.0
Physical/related sciences	2,000	-	0.6	0.4	0.9	0.1	0.5	0.1	0.3	0.2	0.4	S	0.9

TABLE A-4. Standard errors for occupational category of employed U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		S&E occupations					S&E-related occupations					Non-S&E occupations
	Number	Percent	Computer/ mathematical scientists	Biological/ agricultural/ other life scientists	Physical/ related scientists	Social/ related scientists	Engineers	Health occupations	S&E managers	S&E precollege teachers	S&E technicians and technologists	Other S&E-related jobs	
Chemistry, except biochemistry	2,000	-	0.5	0.8	1.3	0.1	0.5	0.3	0.5	0.3	0.8	S	1.0
Earth/atmospheric/ocean sciences	1,000	-	1.0	0.8	2.0	S	0.7	S	0.8	0.4	0.3	S	1.5
Physics/astronomy	1,000	-	1.0	0.4	1.5	0.1	1.1	0.1	0.6	0.4	0.5	S	1.3
Other physical sciences	1,000	-	S	3.9	8.4	S	2.3	S	S	S	S	S	16.9
Social/related sciences	2,000	-	0.2	0.2	0.1	0.7	0.1	0.2	0.1	0.1	0.1	S	0.7
Economics	1,000	-	0.7	0.3	S	1.9	S	0.3	0.3	S	S	S	1.9
Political/related sciences	1,000	-	0.6	S	S	2.5	S	0.3	S	S	S	S	2.5
Psychology	1,000	-	0.2	0.4	S	0.9	0.1	0.2	0.2	S	S	S	0.8
Sociology/anthropology	1,000	-	0.5	0.4	S	2.0	S	0.5	0.3	S	S	S	1.8
Other social sciences	1,000	-	1.0	0.5	0.7	2.9	0.5	1.1	0.4	0.4	S	S	2.7
Engineering	2,000	-	0.8	0.3	0.3	0.1	1.0	0.2	0.3	0.1	0.2	S	0.8
Aerospace/aeronautical/astronautical engineering	1,000	-	10.5	S	1.6	S	8.7	S	1.3	S	S	S	2.9
Chemical engineering	1,000	-	0.7	0.5	1.3	S	3.0	0.7	0.7	S	S	S	2.8
Civil/architectural engineering	1,000	-	1.4	S	0.8	S	2.6	S	1.1	S	S	S	2.3
Electrical/computer engineering	1,000	-	1.3	1.0	0.3	S	1.8	0.2	0.5	S	0.3	S	1.5
Industrial engineering	500	-	4.1	S	S	S	5.1	S	S	S	S	S	4.8
Mechanical engineering	1,000	-	1.1	S	0.8	S	2.1	S	1.0	S	S	S	1.6
Other engineering	1,000	-	0.8	0.5	0.7	0.1	1.7	0.4	0.8	0.2	0.5	S	1.0
S&E-related fields	4,000	-	1.1	1.8	0.8	0.7	0.7	3.5	0.4	0.7	0.6	S	4.5
Health	3,000	-	0.4	2.0	0.3	0.6	0.1	3.2	0.6	S	0.5	S	2.4
Science/mathematics teacher education	2,000	-	8.1	S	S	S	S	S	S	S	S	S	11.7
Technology/technical fields	1,000	-	10.3	S	S	S	11.4	S	S	S	S	S	S
Other S&E-related fields	3,000	-	S	S	S	S	S	S	S	S	S	S	20.9
Non-S&E fields	8,000	-	0.8	0.5	S	1.2	0.7	1.6	0.4	1.8	S	S	2.6
Arts/humanities	2,000	-	3.5	S	S	2.0	S	S	S	S	S	S	4.9
Education, except science/mathematics teacher education	6,000	-	1.1	0.5	S	2.0	S	2.1	S	3.5	S	S	4.6
Management/administration	2,000	-	3.3	S	S	3.4	S	S	S	S	S	S	5.1

TABLE A-4. Standard errors for occupational category of employed U.S. scientists and engineers, by level and field of highest degree: 2003

(Percent distribution)

Level and field of highest degree	All occupations		S&E occupations					S&E-related occupations					Non-S&E occupations
	Number	Percent	Computer/ mathematical scientists	Biological/ agricultural/ other life scientists	Physical/ related scientists	Social/ related scientists	Engineers	Health occupations	S&E managers	S&E precollege teachers	S&E technicians and technologists	Other S&E-related jobs	
Sales/marketing	500	-	S	S	S	S	S	S	S	S	S	S	9.7
Social services/related	3,000	-	2.3	S	S	2.9	S	S	S	S	S	S	6.2
Other non-S&E fields	3,000	-	2.0	3.0	S	3.4	S	S	S	S	S	S	7.9

- = no value, standard errors are not calculated for proportions of 100%; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand; standard errors of percents are rounded up to the nearest tenth.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-5. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2003

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
All degree fields and occupations	82,000	69,000	47,000	11,000
S&E occupations	39,000	32,000	20,000	5,000
Biological/agricultural/environmental life scientists	10,000	9,000	5,000	3,000
Computer/mathematical scientists	27,000	24,000	14,000	3,000
Physical scientists	9,000	8,000	5,000	2,000
Social scientists	14,000	8,000	10,000	2,000
Engineers	18,000	17,000	9,000	2,000
S&E-related occupations	48,000	39,000	23,000	5,000
Health occupations	32,000	31,000	16,000	3,000
S&E managers	14,000	12,000	7,000	1,000
S&E precollege teachers	21,000	14,000	12,000	3,000
S&E technologists/technicians	15,000	14,000	6,000	1,000
Other S&E-related occupations	10,000	9,000	5,000	2,000
Non-S&E occupations	70,000	58,000	38,000	8,000
Art/humanities/related occupations	17,000	14,000	8,000	1,000
Management-related occupations	34,000	28,000	16,000	4,000
Non-S&E managers	26,000	21,000	13,000	4,000
Non-S&E postsecondary teachers	7,000	3,000	6,000	3,000
Non-S&E precollege/other teachers	21,000	17,000	14,000	2,000
Sales/marketing occupations	32,000	28,000	16,000	3,000
Social services/related occupations	17,000	12,000	12,000	2,000
Other non-S&E occupations	41,000	36,000	18,000	2,000
Biological/agricultural/environmental life sciences degree fields	27,000	26,000	9,000	3,000
S&E occupations	11,000	10,000	5,000	3,000
Biological/agricultural/environmental life scientists	9,000	7,000	4,000	3,000
Computer/mathematical scientists	4,000	4,000	2,000	1,000
Physical scientists	4,000	4,000	1,000	1,000
Social scientists	2,000	2,000	500	500
Engineers	4,000	4,000	1,000	500
S&E-related occupations	14,000	13,000	4,000	1,000
Health occupations	12,000	11,000	3,000	1,000
S&E managers	3,000	2,000	1,000	1,000
S&E precollege teachers	5,000	5,000	2,000	500
S&E technologists/technicians	6,000	6,000	1,000	500
Other S&E-related occupations	1,000	1,000	S	S
Non-S&E occupations	22,000	22,000	7,000	1,000
Art/humanities/related occupations	4,000	4,000	2,000	500
Management-related occupations	9,000	8,000	3,000	1,000
Non-S&E managers	6,000	5,000	2,000	1,000
Non-S&E postsecondary teachers	3,000	1,000	2,000	*
Non-S&E precollege/other teachers	6,000	6,000	2,000	*
Sales/marketing occupations	11,000	11,000	2,000	500
Social services/related occupations	3,000	2,000	S	*
Other non-S&E occupations	14,000	14,000	5,000	1,000
Computer/mathematical science degree fields	24,000	21,000	11,000	2,000
S&E occupations	15,000	12,000	9,000	2,000
Biological/agricultural/environmental life scientists	1,000	500	500	*
Computer/mathematical scientists	14,000	12,000	8,000	2,000
Physical scientists	1,000	500	S	*
Social scientists	2,000	1,000	1,000	*
Engineers	4,000	4,000	1,000	500
S&E-related occupations	9,000	8,000	4,000	1,000
Health occupations	2,000	2,000	1,000	*

TABLE A-5. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2003

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
S&E managers	5,000	4,000	2,000	500
S&E precollege teachers	5,000	5,000	2,000	*
S&E technologists/technicians	6,000	5,000	3,000	500
Other S&E-related occupations	2,000	2,000	1,000	*
Non-S&E occupations	19,000	18,000	7,000	1,000
Art/humanities/related occupations	3,000	3,000	S	*
Management-related occupations	8,000	7,000	4,000	500
Non-S&E managers	5,000	5,000	2,000	1,000
Non-S&E postsecondary teachers	1,000	S	1,000	500
Non-S&E precollege/other teachers	5,000	5,000	1,000	S
Sales/marketing occupations	9,000	8,000	4,000	500
Social services/related occupations	4,000	3,000	1,000	S
Other non-S&E occupations	12,000	12,000	2,000	*
Physical/related science degree fields	16,000	14,000	7,000	2,000
S&E occupations	9,000	8,000	4,000	2,000
Biological/agricultural/environmental life scientists	2,000	2,000	1,000	1,000
Computer/mathematical scientists	4,000	4,000	1,000	1,000
Physical scientists	7,000	6,000	3,000	2,000
Social scientists	1,000	1,000	S	*
Engineers	4,000	3,000	1,000	1,000
S&E-related occupations	6,000	6,000	3,000	1,000
Health occupations	3,000	3,000	1,000	500
S&E managers	2,000	2,000	1,000	500
S&E precollege teachers	4,000	3,000	2,000	500
S&E technologists/technicians	3,000	2,000	1,000	1,000
Other S&E-related occupations	500	S	S	S
Non-S&E occupations	12,000	12,000	5,000	1,000
Art/humanities/related occupations	2,000	2,000	1,000	500
Management-related occupations	6,000	5,000	2,000	1,000
Non-S&E managers	5,000	5,000	1,000	1,000
Non-S&E postsecondary teachers	1,000	1,000	S	500
Non-S&E precollege/other teachers	3,000	3,000	1,000	*
Sales/marketing occupations	5,000	5,000	1,000	1,000
Social services/related occupations	2,000	2,000	S	*
Other non-S&E occupations	7,000	7,000	3,000	500
Social/related science degree fields	50,000	45,000	19,000	2,000
S&E occupations	13,000	10,000	7,000	2,000
Biological/agricultural/environmental life scientists	2,000	2,000	1,000	500
Computer/mathematical scientists	8,000	7,000	3,000	500
Physical scientists	1,000	1,000	1,000	500
Social scientists	9,000	6,000	6,000	2,000
Engineers	3,000	3,000	1,000	500
S&E-related occupations	14,000	13,000	5,000	500
Health occupations	11,000	10,000	4,000	500
S&E managers	4,000	3,000	2,000	500
S&E precollege teachers	5,000	4,000	2,000	*
S&E technologists/technicians	4,000	4,000	1,000	*
Other S&E-related occupations	2,000	2,000	S	S
Non-S&E occupations	47,000	43,000	18,000	1,000
Art/humanities/related occupations	11,000	10,000	5,000	500
Management-related occupations	22,000	21,000	7,000	1,000
Non-S&E managers	16,000	14,000	7,000	1,000
Non-S&E postsecondary teachers	3,000	2,000	2,000	1,000

TABLE A-5. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2003

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
Non-S&E precollege/other teachers	13,000	12,000	5,000	500
Sales/marketing occupations	23,000	23,000	7,000	1,000
Social services/related occupations	12,000	10,000	7,000	500
Other non-S&E occupations	27,000	26,000	8,000	1,000
Engineering degree fields	28,000	25,000	12,000	2,000
S&E occupations	16,000	15,000	8,000	2,000
Biological/agricultural/environmental life scientists	1,000	1,000	1,000	500
Computer/mathematical scientists	9,000	8,000	4,000	1,000
Physical scientists	2,000	1,000	1,000	500
Social scientists	1,000	500	1,000	*
Engineers	14,000	13,000	6,000	1,000
S&E-related occupations	9,000	8,000	4,000	500
Health occupations	2,000	3,000	1,000	500
S&E managers	6,000	5,000	2,000	500
S&E precollege teachers	2,000	2,000	1,000	*
S&E technologists/technicians	5,000	5,000	2,000	500
Other S&E-related occupations	3,000	3,000	1,000	S
Non-S&E occupations	20,000	19,000	7,000	1,000
Art/humanities/related occupations	2,000	2,000	1,000	*
Management-related occupations	10,000	9,000	3,000	1,000
Non-S&E managers	9,000	9,000	4,000	1,000
Non-S&E postsecondary teachers	1,000	1,000	1,000	500
Non-S&E precollege/other teachers	2,000	2,000	1,000	*
Sales/marketing occupations	9,000	9,000	3,000	500
Social services/related occupations	1,000	1,000	S	*
Other non-S&E occupations	12,000	11,000	4,000	1,000
S&E-related degree fields	39,000	36,000	20,000	4,000
S&E occupations	11,000	7,000	6,000	1,000
Biological/agricultural/environmental life scientists	3,000	1,000	2,000	1,000
Computer/mathematical scientists	6,000	5,000	3,000	1,000
Physical scientists	2,000	1,000	2,000	500
Social scientists	3,000	2,000	2,000	500
Engineers	6,000	5,000	3,000	500
S&E-related occupations	30,000	28,000	17,000	3,000
Health occupations	27,000	25,000	13,000	2,000
S&E managers	6,000	5,000	3,000	500
S&E precollege teachers	9,000	7,000	6,000	500
S&E technologists/technicians	4,000	4,000	1,000	500
Other S&E-related occupations	9,000	8,000	5,000	S
Non-S&E occupations	25,000	23,000	13,000	3,000
Art/humanities/related occupations	7,000	7,000	4,000	500
Management-related occupations	11,000	9,000	5,000	1,000
Non-S&E managers	9,000	7,000	4,000	1,000
Non-S&E postsecondary teachers	4,000	2,000	2,000	2,000
Non-S&E precollege/other teachers	11,000	9,000	6,000	*
Sales/marketing occupations	12,000	11,000	6,000	2,000
Social services/related occupations	6,000	4,000	4,000	S
Other non-S&E occupations	16,000	14,000	6,000	1,000
Non-S&E degree fields	45,000	29,000	34,000	8,000
S&E occupations	24,000	19,000	14,000	2,000
Biological/agricultural/environmental life scientists	4,000	3,000	2,000	1,000
Computer/mathematical scientists	17,000	15,000	9,000	1,000
Physical scientists	4,000	2,000	3,000	S

TABLE A-5. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2003

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
Social scientists	9,000	6,000	7,000	2,000
Engineers	9,000	7,000	6,000	1,000
S&E-related occupations	25,000	20,000	15,000	4,000
Health occupations	15,000	13,000	8,000	2,000
S&E managers	8,000	6,000	4,000	1,000
S&E precollege teachers	17,000	10,000	11,000	3,000
S&E technologists/technicians	9,000	9,000	4,000	S
Other S&E-related occupations	4,000	3,000	3,000	S
Non-S&E occupations	36,000	9,000	30,000	6,000
Art/humanities/related occupations	6,000	S	5,000	1,000
Management-related occupations	15,000	4,000	13,000	3,000
Non-S&E managers	12,000	2,000	11,000	3,000
Non-S&E postsecondary teachers	5,000	S	5,000	2,000
Non-S&E precollege/other teachers	12,000	4,000	11,000	2,000
Sales/marketing occupations	13,000	2,000	12,000	1,000
Social services/related occupations	10,000	2,000	9,000	2,000
Other non-S&E occupations	20,000	4,000	13,000	2,000

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-6. Standard errors for employed U.S. scientists and engineers reporting one or more disabilities, by level and field of highest degree and occupational category: 2003

Level and field of highest degree and occupational category	Type of disability				
	Total with disability	Hearing	Seeing	Walking	Lifting
All levels, fields, and occupations[a]	24,000	16,000	15,000	9,000	11,000
S&E occupations	8,000	5,000	5,000	3,000	3,000
S&E-related occupations	12,000	7,000	8,000	4,000	5,000
Non-S&E occupations	20,000	13,000	12,000	8,000	9,000
Biological/agricultural/environmental life sciences degree fields	7,000	5,000	4,000	2,000	3,000
S&E occupations	2,000	2,000	2,000	500	1,000
S&E-related occupations	3,000	2,000	2,000	1,000	2,000
Non-S&E occupations	6,000	4,000	3,000	2,000	2,000
Computer/mathematical science degree fields	6,000	3,000	4,000	2,000	3,000
S&E occupations	3,000	2,000	2,000	1,000	1,000
S&E-related occupations	3,000	2,000	2,000	1,000	1,000
Non-S&E occupations	4,000	2,000	3,000	2,000	2,000
Physical/related science degree fields	3,000	2,000	2,000	1,000	1,000
S&E occupations	2,000	1,000	1,000	500	500
S&E-related occupations	1,000	1,000	1,000	S	500
Non-S&E occupations	3,000	2,000	1,000	500	1,000
Social/related science degree fields	12,000	8,000	8,000	6,000	6,000
S&E occupations	3,000	2,000	2,000	1,000	2,000
S&E-related occupations	3,000	2,000	2,000	1,000	1,000
Non-S&E occupations	11,000	7,000	7,000	6,000	6,000
Engineering degree fields	5,000	4,000	3,000	1,000	1,000
S&E occupations	3,000	2,000	3,000	1,000	1,000
S&E-related occupations	3,000	2,000	1,000	1,000	1,000
Non-S&E occupations	4,000	3,000	2,000	1,000	1,000
S&E-related fields	12,000	7,000	8,000	4,000	6,000
S&E occupations	2,000	1,000	1,000	1,000	1,000
S&E-related occupations	8,000	5,000	6,000	3,000	4,000
Non-S&E occupations	7,000	5,000	5,000	3,000	4,000
Non-S&E degree fields	11,000	8,000	7,000	5,000	6,000
S&E occupations	5,000	3,000	3,000	2,000	2,000
S&E-related occupations	5,000	3,000	4,000	2,000	3,000
Non-S&E occupations	9,000	6,000	6,000	4,000	4,000
Bachelor's degrees	20,000	12,000	12,000	8,000	10,000
S&E occupations	7,000	4,000	5,000	3,000	3,000
S&E-related occupations	9,000	5,000	6,000	4,000	5,000
Non-S&E occupations	17,000	10,000	9,000	7,000	7,000
Biological/agricultural/environmental life sciences degree fields	7,000	5,000	4,000	2,000	3,000
S&E occupations	2,000	2,000	2,000	500	1,000
S&E-related occupations	3,000	2,000	2,000	S	2,000
Non-S&E occupations	5,000	4,000	3,000	2,000	2,000
Computer/mathematical science degree fields	5,000	3,000	4,000	2,000	2,000
S&E occupations	3,000	2,000	1,000	1,000	1,000
S&E-related occupations	2,000	2,000	1,000	S	1,000
Non-S&E occupations	4,000	2,000	3,000	1,000	2,000
Physical/related science degree fields	3,000	2,000	1,000	1,000	1,000
S&E occupations	1,000	1,000	1,000	500	500
S&E-related occupations	1,000	1,000	1,000	S	S
Non-S&E occupations	3,000	2,000	1,000	S	S
Social/related science degree fields	11,000	7,000	7,000	6,000	6,000
S&E occupations	2,000	2,000	2,000	1,000	1,000
S&E-related occupations	3,000	2,000	1,000	1,000	1,000
Non-S&E occupations	10,000	6,000	7,000	5,000	5,000
Engineering degree fields	5,000	4,000	3,000	1,000	1,000

TABLE A-6. Standard errors for employed U.S. scientists and engineers reporting one or more disabilities, by level and field of highest degree and occupational category: 2003

Level and field of highest degree and occupational category	Type of disability				
	Total with disability	Hearing	Seeing	Walking	Lifting
S&E occupations	3,000	2,000	2,000	1,000	1,000
S&E-related occupations	2,000	2,000	1,000	S	S
Non-S&E occupations	3,000	3,000	2,000	S	S
S&E-related fields	9,000	5,000	7,000	3,000	5,000
S&E occupations	1,000	1,000	1,000	500	500
S&E-related occupations	6,000	3,000	5,000	3,000	3,000
Non-S&E occupations	7,000	5,000	4,000	3,000	4,000
Non-S&E degree fields	7,000	3,000	4,000	4,000	3,000
S&E occupations	5,000	2,000	3,000	2,000	2,000
S&E-related occupations	4,000	2,000	3,000	2,000	2,000
Non-S&E occupations	3,000	S	1,000	S	S
Master's degrees	12,000	9,000	7,000	4,000	5,000
S&E occupations	5,000	3,000	2,000	1,000	1,000
S&E-related occupations	5,000	3,000	4,000	2,000	3,000
Non-S&E occupations	9,000	6,000	6,000	4,000	4,000
Biological/agricultural/environmental life sciences degree fields	2,000	1,000	1,000	S	500
S&E occupations	1,000	1,000	500	S	*
S&E-related occupations	1,000	S	1,000	S	S
Non-S&E occupations	2,000	1,000	S	S	S
Computer/mathematical science degree fields	3,000	1,000	2,000	1,000	1,000
S&E occupations	2,000	1,000	1,000	1,000	1,000
S&E-related occupations	1,000	S	1,000	S	S
Non-S&E occupations	1,000	S	1,000	S	1,000
Physical/related science degree fields	1,000	1,000	1,000	S	500
S&E occupations	1,000	1,000	1,000	S	S
S&E-related occupations	500	S	S	S	S
Non-S&E occupations	S	S	S	S	S
Social/related science degree fields	5,000	3,000	4,000	3,000	3,000
S&E occupations	1,000	1,000	1,000	1,000	500
S&E-related occupations	S	S	S	S	S
Non-S&E occupations	5,000	2,000	4,000	3,000	3,000
Engineering degree fields	3,000	2,000	1,000	1,000	1,000
S&E occupations	2,000	1,000	1,000	1,000	1,000
S&E-related occupations	1,000	S	S	S	S
Non-S&E occupations	1,000	1,000	500	S	S
S&E-related fields	5,000	3,000	4,000	2,000	2,000
S&E occupations	1,000	1,000	1,000	S	S
S&E-related occupations	4,000	2,000	3,000	1,000	2,000
Non-S&E occupations	2,000	1,000	2,000	1,000	1,000
Non-S&E degree fields	9,000	6,000	5,000	3,000	4,000
S&E occupations	2,000	2,000	1,000	500	1,000
S&E-related occupations	4,000	2,000	3,000	1,000	2,000
Non-S&E occupations	7,000	5,000	4,000	2,000	3,000
Doctorate degrees	3,000	2,000	2,000	1,000	1,000
S&E occupations	1,000	1,000	1,000	500	500
S&E-related occupations	1,000	1,000	500	500	500
Non-S&E occupations	2,000	1,000	2,000	1,000	1,000
Biological/agricultural/environmental life sciences degree fields	1,000	500	500	500	500
S&E occupations	1,000	500	500	500	500
S&E-related occupations	500	500	500	*	*
Non-S&E occupations	500	500	500	*	*
Computer/mathematical science degree fields	500	500	500	*	*
S&E occupations	500	500	500	*	*

TABLE A-6. Standard errors for employed U.S. scientists and engineers reporting one or more disabilities, by level and field of highest degree and occupational category: 2003

Level and field of highest degree and occupational category	Type of disability				
	Total with disability	Hearing	Seeing	Walking	Lifting
S&E-related occupations	*	S	S	S	S
Non-S&E occupations	*	*	*	S	S
Physical/related science degree fields	1,000	500	500	500	500
S&E occupations	500	500	500	500	500
S&E-related occupations	500	*	*	S	S
Non-S&E occupations	500	500	*	*	*
Social/related science degree fields	1,000	500	500	500	500
S&E occupations	1,000	500	500	500	500
S&E-related occupations	500	*	*	S	*
Non-S&E occupations	500	500	500	500	500
Engineering degree fields	500	500	500	500	500
S&E occupations	500	500	500	500	500
S&E-related occupations	*	*	*	S	S
Non-S&E occupations	500	*	*	*	*
S&E-related fields	2,000	500	2,000	500	1,000
S&E occupations	500	*	*	S	*
S&E-related occupations	500	500	500	*	*
Non-S&E occupations	2,000	*	2,000	*	500
Non-S&E degree fields	2,000	1,000	1,000	1,000	500
S&E occupations	1,000	1,000	1,000	S	S
S&E-related occupations	S	S	S	S	S
Non-S&E occupations	2,000	1,000	1,000	1,000	500

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand. The SESTAT surveys ask the degree of difficulty—none, slight, moderate, severe, unable to do—an individual has in seeing (with glasses/contact lenses), hearing (with hearing aid), walking without assistance, or lifting 10 pounds. Those respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-7. Standard errors for U.S. scientists and engineers, by field and level of highest degree: 2003

Field of highest degree	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
All degree fields	84,000	73,000	50,000	11,000
S&E fields	73,000	66,000	33,000	5,000
Sciences	69,000	64,000	30,000	5,000
Biological/agricultural/environmental life sciences	31,000	29,000	11,000	4,000
Agricultural/food sciences	13,000	13,000	4,000	1,000
Animal sciences	10,000	10,000	1,000	500
Food sciences/technology	4,000	4,000	1,000	500
Plant sciences	7,000	6,000	2,000	1,000
Other agricultural sciences	6,000	5,000	3,000	500
Biological sciences	28,000	27,000	9,000	4,000
Biochemistry/biophysics	8,000	8,000	2,000	2,000
Biology, general	21,000	21,000	4,000	1,000
Botany	5,000	4,000	2,000	500
Cell/molecular biology	6,000	5,000	3,000	1,000
Ecology	5,000	5,000	3,000	500
Genetics, animal/plant	2,000	2,000	2,000	1,000
Microbiological sciences/immunology	9,000	8,000	3,000	2,000
Nutritional science	6,000	5,000	2,000	500
Pharmacology, human/animal	2,000	2,000	2,000	1,000
Physiology/pathology/human/animal	7,000	6,000	2,000	1,000
Zoology, general	7,000	7,000	2,000	1,000
Other biological sciences	7,000	7,000	3,000	2,000
Environmental life sciences	10,000	9,000	5,000	500
Environmental science studies	8,000	6,000	5,000	500
Forestry sciences	7,000	6,000	3,000	500
Computer/mathematical sciences	26,000	24,000	12,000	2,000
Computer/information sciences	19,000	17,000	11,000	1,000
Computer/information sciences	9,000	7,000	5,000	500
Computer science	16,000	14,000	7,000	1,000
Computer systems analysis	4,000	4,000	2,000	S
Information services/systems	9,000	8,000	4,000	500
Other computer/information sciences	7,000	6,000	4,000	500
Mathematics/statistics	19,000	18,000	7,000	2,000
Applied mathematics	11,000	10,000	3,000	2,000
Mathematics, general	15,000	15,000	4,000	1,000
Operations research	4,000	2,000	3,000	500
Statistics	4,000	3,000	3,000	500
Other mathematics	3,000	3,000	1,000	500
Physical/related sciences	18,000	16,000	7,000	2,000
Chemistry, except biochemistry	14,000	13,000	5,000	2,000
Earth/atmospheric/ocean sciences	10,000	9,000	5,000	1,000
Atmospheric sciences/meteorology	3,000	3,000	1,000	500
Earth sciences	3,000	3,000	2,000	*
Geology	9,000	8,000	4,000	500
Other geological sciences	2,000	2,000	2,000	500
Oceanography	2,000	2,000	1,000	500
Physics/astronomy	7,000	7,000	4,000	1,000
Astronomy/astrophysics	1,000	1,000	1,000	500
Physics	7,000	7,000	3,000	1,000
Other physical sciences	6,000	6,000	2,000	1,000

TABLE A-7. Standard errors for U.S. scientists and engineers, by field and level of highest degree: 2003

Field of highest degree	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
Social/related sciences	56,000	52,000	22,000	2,000
Economics	21,000	20,000	7,000	1,000
Agricultural economics	11,000	10,000	3,000	500
Economics	19,000	17,000	6,000	1,000
Political/related sciences	27,000	25,000	9,000	1,000
Public policy studies	4,000	2,000	4,000	1,000
International relations	11,000	8,000	5,000	500
Political science/government	24,000	24,000	6,000	1,000
Psychology	34,000	31,000	16,000	1,000
Educational psychology	11,000	7,000	8,000	500
Clinical psychology	9,000	7,000	6,000	1,000
Counseling psychology	15,000	9,000	12,000	500
Experimental psychology	6,000	6,000	1,000	500
Psychology, general	25,000	24,000	5,000	500
Industrial/organizational psychology	7,000	5,000	4,000	500
Social psychology	6,000	5,000	2,000	500
Other psychology	10,000	9,000	4,000	1,000
Sociology/anthropology	24,000	24,000	6,000	1,000
Anthropology/archeology	10,000	10,000	3,000	500
Criminology	8,000	8,000	2,000	500
Sociology	22,000	21,000	5,000	1,000
Other social sciences	19,000	18,000	7,000	1,000
Area/ethnic studies	8,000	7,000	4,000	500
Linguistics	5,000	5,000	2,000	500
Philosophy of science	5,000	5,000	1,000	500
Geography	9,000	8,000	3,000	500
History of science	5,000	5,000	1,000	500
Other social sciences	11,000	11,000	4,000	1,000
Engineering	33,000	31,000	13,000	2,000
Aerospace/related engineering	8,000	7,000	2,000	1,000
Chemical engineering	9,000	8,000	4,000	1,000
Civil/architectural engineering	13,000	12,000	5,000	1,000
Architectural engineering	5,000	5,000	2,000	S
Civil engineering	12,000	10,000	5,000	1,000
Electrical/computer engineering	16,000	14,000	8,000	1,000
Computer/systems engineering	8,000	6,000	4,000	500
Other electrical/related engineering	15,000	13,000	7,000	1,000
Industrial engineering	10,000	10,000	3,000	500
Mechanical engineering	16,000	15,000	5,000	1,000
Other engineering	13,000	11,000	6,000	1,000
Agricultural engineering	4,000	4,000	1,000	500
Bioengineering/biomedical engineering	2,000	1,000	2,000	500
Engineering science, mechanical/physics	4,000	4,000	2,000	500
Environmental engineering	3,000	2,000	2,000	500
Engineering, general	5,000	5,000	1,000	500
Geophysical/geological engineering	2,000	2,000	500	*
Materials engineering	3,000	3,000	2,000	500
Metallurgical engineering	3,000	3,000	1,000	500
Mining/minerals engineering	3,000	3,000	2,000	500
Naval architecture/marine engineering	2,000	2,000	500	S

TABLE A-7. Standard errors for U.S. scientists and engineers, by field and level of highest degree: 2003

Field of highest degree	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
Nuclear engineering	2,000	1,000	1,000	500
Petroleum engineering	4,000	4,000	1,000	*
Other engineering	6,000	5,000	4,000	500
S&E-related fields	42,000	40,000	22,000	5,000
Health	36,000	34,000	17,000	3,000
Audiology/speech pathology	12,000	9,000	8,000	500
Health services administration	11,000	7,000	9,000	1,000
Health/medical assistants	2,000	2,000	S	S
Health/medical technologies	8,000	7,000	2,000	1,000
Medical preparatory programs	7,000	7,000	1,000	S
Medicine	17,000	7,000	4,000	2,000
Nursing	26,000	25,000	10,000	500
Pharmacy	10,000	8,000	2,000	1,000
Physical therapy/other rehabilitation/therapeutic services	15,000	13,000	8,000	1,000
Public health	9,000	5,000	6,000	1,000
Other health/medical sciences	15,000	13,000	7,000	1,000
Science/mathematics teacher education	17,000	14,000	9,000	3,000
Computer teacher education	6,000	3,000	5,000	S
Mathematics teacher education	10,000	8,000	6,000	1,000
Science teacher education	9,000	7,000	6,000	2,000
Social science teacher education	10,000	9,000	5,000	500
Technology/technical fields	15,000	14,000	4,000	1,000
Computer programming	6,000	6,000	2,000	S
Data processing	2,000	2,000	S	S
Electrical/electronic technologies	6,000	6,000	1,000	500
Industrial production technologies	11,000	10,000	3,000	S
Mechanical engineering-related technologies	5,000	5,000	2,000	500
Other engineering-related technologies	8,000	7,000	3,000	500
Other S&E-related fields	15,000	13,000	7,000	3,000
Architecture/environmental design	15,000	13,000	7,000	3,000
Actuarial science	2,000	2,000	1,000	S
Non-S&E fields	52,000	29,000	40,000	8,000
Arts/humanities	16,000	15,000	9,000	2,000
Education, except science/mathematics teacher education	28,000	11,000	24,000	7,000
Management/administration	30,000	19,000	23,000	3,000
Sales/marketing	10,000	5,000	9,000	500
Social services/related	13,000	5,000	11,000	3,000
Other non-S&E fields	24,000	11,000	13,000	4,000

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
All degree levels and fields[a]	84,000	82,000	76,000	33,000	19,000	44,000	30,000	30,000
Male	63,000	60,000	59,000	18,000	14,000	25,000	22,000	11,000
Female	56,000	56,000	50,000	29,000	13,000	37,000	20,000	29,000
S&E fields	73,000	67,000	65,000	23,000	14,000	35,000	25,000	23,000
Male	57,000	53,000	52,000	12,000	11,000	23,000	21,000	9,000
Female	46,000	41,000	37,000	20,000	10,000	27,000	14,000	22,000
Sciences	69,000	64,000	60,000	22,000	13,000	32,000	22,000	23,000
Male	49,000	46,000	44,000	11,000	10,000	18,000	17,000	9,000
Female	45,000	41,000	36,000	20,000	10,000	26,000	14,000	22,000
Biological/agricultural/environmental life sciences	31,000	27,000	27,000	9,000	5,000	14,000	10,000	10,000
Male	22,000	20,000	20,000	4,000	3,000	9,000	7,000	5,000
Female	20,000	17,000	16,000	7,000	4,000	11,000	7,000	8,000
Agricultural/food sciences	13,000	12,000	12,000	4,000	2,000	5,000	4,000	3,000
Male	10,000	9,000	9,000	2,000	1,000	4,000	4,000	2,000
Female	8,000	8,000	7,000	3,000	2,000	2,000	1,000	2,000
Biological sciences	28,000	25,000	25,000	7,000	4,000	13,000	8,000	9,000
Male	20,000	19,000	18,000	4,000	3,000	7,000	6,000	4,000
Female	18,000	16,000	15,000	6,000	4,000	10,000	6,000	8,000
Environmental life sciences	10,000	9,000	9,000	2,000	2,000	5,000	4,000	3,000
Male	8,000	8,000	8,000	1,000	1,000	4,000	3,000	2,000
Female	6,000	5,000	4,000	2,000	1,000	3,000	S	2,000
Computer/mathematical sciences	26,000	24,000	21,000	10,000	5,000	11,000	7,000	8,000
Male	19,000	18,000	18,000	4,000	4,000	7,000	6,000	3,000
Female	19,000	16,000	14,000	9,000	3,000	9,000	4,000	8,000
Computer/information sciences	19,000	18,000	16,000	7,000	4,000	6,000	3,000	5,000
Male	15,000	14,000	15,000	2,000	4,000	3,000	3,000	2,000
Female	13,000	12,000	10,000	7,000	3,000	5,000	1,000	5,000
Mathematical sciences	19,000	16,000	15,000	6,000	3,000	9,000	7,000	6,000
Male	14,000	12,000	12,000	3,000	3,000	6,000	6,000	2,000
Female	13,000	11,000	9,000	5,000	2,000	7,000	4,000	6,000
Physical/related sciences	18,000	16,000	15,000	4,000	3,000	9,000	7,000	5,000
Male	16,000	15,000	14,000	3,000	3,000	7,000	7,000	2,000
Female	11,000	9,000	8,000	4,000	1,000	6,000	3,000	5,000
Chemistry, except biochemistry	14,000	12,000	12,000	3,000	2,000	7,000	5,000	5,000
Male	11,000	11,000	10,000	2,000	1,000	5,000	4,000	2,000
Female	8,000	6,000	6,000	3,000	1,000	5,000	2,000	5,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Earth/atmospheric/ocean sciences	10,000	9,000	8,000	2,000	2,000	4,000	4,000	2,000
Male	9,000	8,000	8,000	2,000	2,000	4,000	4,000	2,000
Female	4,000	4,000	3,000	2,000	500	2,000	1,000	2,000
Physics/astronomy	7,000	6,000	6,000	2,000	1,000	3,000	3,000	1,000
Male	6,000	5,000	5,000	1,000	1,000	3,000	3,000	500
Female	4,000	3,000	3,000	1,000	500	1,000	1,000	1,000
Other physical sciences	6,000	5,000	5,000	1,000	1,000	3,000	2,000	1,000
Male	4,000	4,000	4,000	*	S	1,000	1,000	*
Female	4,000	3,000	3,000	1,000	S	2,000	S	1,000
Social/related sciences	56,000	50,000	49,000	18,000	10,000	24,000	16,000	20,000
Male	35,000	34,000	35,000	9,000	7,000	12,000	11,000	7,000
Female	40,000	33,000	30,000	17,000	8,000	22,000	11,000	19,000
Economics	21,000	20,000	20,000	6,000	4,000	9,000	7,000	6,000
Male	20,000	19,000	19,000	3,000	3,000	7,000	6,000	3,000
Female	11,000	9,000	7,000	5,000	3,000	6,000	3,000	5,000
Political/related sciences	27,000	23,000	23,000	6,000	6,000	10,000	6,000	7,000
Male	21,000	19,000	19,000	3,000	4,000	7,000	6,000	3,000
Female	16,000	14,000	13,000	5,000	4,000	7,000	3,000	6,000
Psychology	34,000	28,000	26,000	12,000	6,000	16,000	11,000	13,000
Male	18,000	16,000	15,000	6,000	3,000	7,000	7,000	3,000
Female	28,000	22,000	20,000	11,000	5,000	15,000	8,000	12,000
Sociology/anthropology	24,000	20,000	19,000	9,000	5,000	13,000	6,000	11,000
Male	14,000	14,000	14,000	3,000	3,000	5,000	3,000	3,000
Female	21,000	15,000	13,000	9,000	4,000	13,000	6,000	11,000
Other social sciences	19,000	17,000	16,000	5,000	2,000	7,000	5,000	5,000
Male	13,000	12,000	12,000	3,000	2,000	3,000	3,000	1,000
Female	14,000	13,000	12,000	5,000	1,000	6,000	3,000	5,000
Engineering	33,000	28,000	27,000	8,000	6,000	14,000	13,000	6,000
Male	32,000	28,000	28,000	6,000	6,000	13,000	13,000	4,000
Female	10,000	9,000	8,000	4,000	2,000	5,000	2,000	4,000
Aerospace/related engineering	8,000	7,000	7,000	1,000	1,000	2,000	2,000	500
Male	7,000	7,000	6,000	1,000	1,000	2,000	2,000	*
Female	2,000	2,000	2,000	500	S	500	S	*
Chemical engineering	9,000	7,000	7,000	1,000	1,000	4,000	4,000	2,000
Male	8,000	7,000	7,000	1,000	1,000	4,000	4,000	1,000
Female	3,000	3,000	3,000	1,000	500	2,000	1,000	1,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Civil/architectural engineering	13,000	12,000	11,000	3,000	2,000	5,000	5,000	2,000
Male	13,000	11,000	11,000	3,000	2,000	5,000	4,000	2,000
Female	4,000	3,000	3,000	1,000	1,000	1,000	1,000	1,000
Electrical/computer engineering	16,000	13,000	13,000	4,000	3,000	8,000	7,000	3,000
Male	15,000	13,000	13,000	3,000	3,000	8,000	7,000	3,000
Female	6,000	5,000	5,000	2,000	1,000	2,000	1,000	2,000
Industrial engineering	10,000	9,000	8,000	2,000	2,000	6,000	5,000	2,000
Male	10,000	8,000	8,000	1,000	2,000	5,000	5,000	1,000
Female	4,000	3,000	3,000	1,000	500	2,000	S	2,000
Mechanical engineering	16,000	15,000	14,000	4,000	3,000	7,000	7,000	2,000
Male	16,000	15,000	14,000	3,000	2,000	7,000	6,000	1,000
Female	4,000	4,000	3,000	3,000	1,000	1,000	1,000	1,000
Other engineering	13,000	12,000	11,000	3,000	2,000	6,000	5,000	3,000
Male	12,000	11,000	11,000	3,000	2,000	5,000	5,000	1,000
Female	4,000	3,000	3,000	2,000	1,000	2,000	1,000	2,000
S&E-related fields	42,000	39,000	37,000	21,000	7,000	24,000	15,000	17,000
Male	28,000	26,000	26,000	9,000	5,000	12,000	10,000	5,000
Female	33,000	29,000	28,000	20,000	6,000	21,000	12,000	17,000
Health	36,000	31,000	30,000	20,000	6,000	22,000	12,000	17,000
Male	20,000	18,000	18,000	7,000	3,000	9,000	8,000	4,000
Female	31,000	26,000	25,000	19,000	5,000	20,000	10,000	17,000
Science/mathematics teacher education	17,000	15,000	13,000	6,000	2,000	8,000	8,000	3,000
Male	10,000	10,000	9,000	3,000	2,000	5,000	5,000	S
Female	13,000	12,000	10,000	5,000	2,000	5,000	5,000	3,000
Technology/technical fields	15,000	14,000	14,000	4,000	3,000	6,000	4,000	4,000
Male	14,000	13,000	13,000	3,000	3,000	5,000	4,000	3,000
Female	5,000	5,000	4,000	2,000	1,000	3,000	1,000	2,000
Other S&E-related fields	15,000	15,000	14,000	5,000	1,000	4,000	2,000	3,000
Male	12,000	12,000	12,000	3,000	1,000	3,000	2,000	2,000
Female	8,000	8,000	7,000	4,000	1,000	3,000	1,000	3,000
Non-S&E fields	52,000	45,000	43,000	15,000	8,000	17,000	13,000	10,000
Male	35,000	33,000	32,000	10,000	6,000	11,000	10,000	4,000
Female	35,000	31,000	29,000	11,000	5,000	12,000	8,000	10,000
Arts/humanities	16,000	16,000	14,000	6,000	2,000	3,000	3,000	2,000
Male	12,000	12,000	11,000	4,000	S	2,000	2,000	1,000
Female	12,000	11,000	10,000	5,000	1,000	3,000	2,000	2,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Education, except science and mathematics teacher education	28,000	25,000	25,000	6,000	2,000	11,000	8,000	7,000
Male	17,000	16,000	15,000	4,000	2,000	7,000	6,000	2,000
Female	22,000	19,000	19,000	5,000	2,000	8,000	6,000	6,000
Management/administration	30,000	28,000	27,000	8,000	5,000	9,000	6,000	6,000
Male	22,000	21,000	21,000	5,000	4,000	6,000	6,000	2,000
Female	16,000	15,000	14,000	6,000	2,000	6,000	2,000	5,000
Sales/marketing	10,000	10,000	10,000	3,000	2,000	2,000	1,000	2,000
Male	8,000	8,000	8,000	1,000	1,000	1,000	1,000	S
Female	6,000	5,000	5,000	3,000	1,000	2,000	S	2,000
Social services/related	13,000	13,000	11,000	6,000	2,000	4,000	3,000	3,000
Male	9,000	9,000	8,000	3,000	S	3,000	3,000	1,000
Female	10,000	9,000	8,000	5,000	2,000	3,000	1,000	3,000
Other non-S&E fields	24,000	23,000	22,000	8,000	4,000	8,000	6,000	5,000
Male	18,000	17,000	17,000	5,000	3,000	4,000	4,000	1,000
Female	17,000	16,000	14,000	6,000	3,000	6,000	4,000	5,000
Bachelor's degrees	73,000	69,000	66,000	29,000	15,000	38,000	26,000	27,000
Male	55,000	51,000	50,000	13,000	11,000	23,000	21,000	10,000
Female	50,000	45,000	40,000	27,000	11,000	31,000	17,000	26,000
S&E fields	66,000	60,000	58,000	22,000	14,000	31,000	23,000	22,000
Male	53,000	48,000	47,000	11,000	10,000	21,000	19,000	9,000
Female	41,000	35,000	32,000	19,000	9,000	25,000	13,000	21,000
Sciences	64,000	59,000	56,000	21,000	12,000	30,000	20,000	22,000
Male	48,000	44,000	43,000	10,000	9,000	17,000	15,000	8,000
Female	41,000	35,000	31,000	19,000	9,000	25,000	13,000	21,000
Biological/agricultural/environmental life sciences	29,000	26,000	25,000	8,000	5,000	13,000	9,000	9,000
Male	21,000	19,000	19,000	4,000	3,000	8,000	6,000	5,000
Female	20,000	18,000	16,000	7,000	4,000	10,000	6,000	8,000
Agricultural/food sciences	13,000	12,000	12,000	4,000	2,000	4,000	4,000	3,000
Male	10,000	9,000	9,000	2,000	S	3,000	3,000	2,000
Female	8,000	8,000	7,000	3,000	2,000	2,000	S	2,000
Biological sciences	27,000	24,000	23,000	7,000	4,000	12,000	8,000	9,000
Male	19,000	17,000	17,000	4,000	3,000	7,000	5,000	4,000
Female	18,000	16,000	14,000	6,000	3,000	9,000	5,000	8,000
Environmental life sciences	9,000	7,000	7,000	2,000	2,000	4,000	2,000	2,000
Male	7,000	6,000	6,000	1,000	1,000	3,000	2,000	1,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Female	5,000	4,000	4,000	1,000	1,000	2,000	S	2,000
Computer/mathematical sciences	24,000	21,000	20,000	9,000	4,000	11,000	7,000	8,000
Male	18,000	17,000	17,000	3,000	4,000	6,000	5,000	3,000
Female	17,000	15,000	13,000	8,000	3,000	9,000	4,000	7,000
Computer/information sciences	17,000	16,000	15,000	6,000	4,000	6,000	2,000	5,000
Male	13,000	13,000	13,000	2,000	3,000	3,000	2,000	2,000
Female	11,000	11,000	9,000	6,000	2,000	5,000	1,000	5,000
Mathematical sciences	18,000	15,000	14,000	6,000	3,000	9,000	6,000	6,000
Male	13,000	12,000	12,000	2,000	2,000	5,000	5,000	2,000
Female	12,000	9,000	8,000	5,000	2,000	7,000	4,000	6,000
Physical/related sciences	16,000	14,000	13,000	4,000	3,000	8,000	7,000	5,000
Male	14,000	13,000	12,000	2,000	2,000	6,000	6,000	2,000
Female	10,000	8,000	7,000	3,000	1,000	6,000	3,000	5,000
Chemistry, except biochemistry	13,000	11,000	11,000	3,000	1,000	6,000	4,000	5,000
Male	10,000	9,000	9,000	2,000	1,000	4,000	4,000	2,000
Female	8,000	6,000	5,000	3,000	1,000	5,000	2,000	4,000
Earth/atmospheric/ocean sciences	9,000	8,000	8,000	2,000	2,000	4,000	3,000	2,000
Male	8,000	7,000	7,000	1,000	2,000	3,000	3,000	2,000
Female	4,000	3,000	3,000	1,000	500	2,000	S	1,000
Physics/astronomy	7,000	6,000	6,000	1,000	1,000	3,000	3,000	1,000
Male	5,000	5,000	5,000	1,000	1,000	3,000	3,000	500
Female	4,000	3,000	3,000	1,000	*	1,000	S	500
Other physical sciences	6,000	5,000	5,000	500	S	3,000	2,000	1,000
Male	4,000	3,000	3,000	S	S	1,000	S	S
Female	4,000	3,000	3,000	500	S	2,000	S	1,000
Social/related sciences	52,000	45,000	43,000	16,000	10,000	23,000	14,000	19,000
Male	33,000	32,000	32,000	8,000	7,000	12,000	11,000	6,000
Female	36,000	29,000	26,000	15,000	8,000	20,000	10,000	18,000
Economics	20,000	19,000	18,000	6,000	4,000	9,000	6,000	6,000
Male	19,000	18,000	18,000	3,000	3,000	6,000	6,000	3,000
Female	10,000	8,000	6,000	5,000	3,000	6,000	2,000	5,000
Political/related sciences	25,000	21,000	21,000	5,000	6,000	9,000	6,000	7,000
Male	20,000	18,000	18,000	3,000	4,000	7,000	6,000	3,000
Female	15,000	12,000	12,000	4,000	4,000	8,000	3,000	6,000
Psychology	31,000	25,000	22,000	10,000	5,000	13,000	9,000	11,000
Male	17,000	15,000	14,000	5,000	3,000	7,000	6,000	3,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Female	25,000	21,000	17,000	10,000	5,000	12,000	7,000	11,000
Sociology/anthropology	24,000	20,000	19,000	8,000	5,000	13,000	6,000	11,000
Male	14,000	13,000	14,000	3,000	3,000	5,000	3,000	3,000
Female	21,000	15,000	14,000	8,000	4,000	13,000	5,000	11,000
Other social sciences	18,000	16,000	16,000	5,000	2,000	6,000	4,000	4,000
Male	12,000	11,000	11,000	2,000	2,000	3,000	3,000	1,000
Female	13,000	12,000	11,000	5,000	1,000	5,000	3,000	4,000
Engineering	31,000	25,000	25,000	7,000	6,000	14,000	13,000	5,000
Male	29,000	24,000	24,000	5,000	5,000	13,000	13,000	3,000
Female	9,000	8,000	7,000	4,000	2,000	4,000	2,000	4,000
Aerospace/related engineering	7,000	7,000	6,000	1,000	1,000	2,000	2,000	*
Male	7,000	6,000	6,000	1,000	1,000	2,000	2,000	S
Female	2,000	2,000	2,000	*	S	S	S	S
Chemical engineering	8,000	7,000	7,000	1,000	1,000	4,000	3,000	1,000
Male	7,000	6,000	6,000	1,000	1,000	3,000	3,000	1,000
Female	3,000	2,000	2,000	1,000	500	1,000	S	1,000
Civil/architectural engineering	12,000	11,000	10,000	2,000	2,000	5,000	4,000	2,000
Male	11,000	11,000	10,000	2,000	2,000	4,000	4,000	2,000
Female	3,000	3,000	2,000	1,000	1,000	1,000	S	1,000
Electrical/computer engineering	14,000	11,000	11,000	3,000	3,000	7,000	7,000	3,000
Male	13,000	11,000	10,000	3,000	3,000	7,000	6,000	2,000
Female	5,000	5,000	4,000	2,000	1,000	2,000	S	2,000
Industrial engineering	10,000	8,000	8,000	2,000	2,000	5,000	5,000	2,000
Male	10,000	8,000	8,000	1,000	2,000	5,000	5,000	1,000
Female	4,000	3,000	3,000	1,000	500	2,000	S	2,000
Mechanical engineering	15,000	13,000	12,000	4,000	3,000	7,000	6,000	1,000
Male	14,000	13,000	12,000	3,000	2,000	6,000	6,000	1,000
Female	4,000	4,000	3,000	3,000	1,000	1,000	S	1,000
Other engineering	11,000	10,000	10,000	3,000	2,000	5,000	5,000	2,000
Male	11,000	10,000	9,000	2,000	1,000	5,000	5,000	1,000
Female	4,000	3,000	3,000	1,000	1,000	2,000	S	2,000
S&E-related fields	40,000	36,000	35,000	19,000	6,000	20,000	12,000	15,000
Male	23,000	21,000	22,000	6,000	3,000	9,000	7,000	5,000
Female	32,000	28,000	26,000	18,000	4,000	17,000	10,000	15,000
Health	34,000	29,000	27,000	18,000	4,000	18,000	10,000	15,000
Male	14,000	12,000	12,000	4,000	1,000	5,000	4,000	4,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Female	30,000	25,000	23,000	17,000	4,000	17,000	9,000	15,000
Science/mathematics teacher education	14,000	13,000	11,000	5,000	2,000	6,000	5,000	3,000
Male	8,000	8,000	7,000	2,000	1,000	4,000	4,000	S
Female	10,000	9,000	8,000	4,000	S	4,000	4,000	3,000
Technology/technical fields	14,000	13,000	13,000	3,000	3,000	5,000	4,000	4,000
Male	14,000	12,000	12,000	3,000	3,000	4,000	4,000	3,000
Female	5,000	5,000	4,000	2,000	1,000	3,000	S	2,000
Other S&E-related fields	13,000	13,000	12,000	5,000	1,000	4,000	2,000	3,000
Male	11,000	11,000	11,000	3,000	1,000	3,000	2,000	2,000
Female	7,000	6,000	6,000	3,000	S	3,000	S	3,000
Non-S&E fields	29,000	29,000	27,000	9,000	2,000	4,000	2,000	3,000
Male	21,000	20,000	20,000	4,000	S	2,000	2,000	2,000
Female	21,000	21,000	19,000	8,000	S	3,000	S	2,000
Arts and humanities	15,000	15,000	14,000	5,000	S	2,000	S	2,000
Male	10,000	10,000	10,000	1,000	S	S	S	S
Female	10,000	10,000	9,000	5,000	S	S	S	S
Education, except science/mathematics teacher education	11,000	11,000	11,000	3,000	S	2,000	S	S
Male	8,000	8,000	8,000	1,000	S	S	S	S
Female	10,000	10,000	10,000	3,000	S	S	S	S
Management/administration	19,000	18,000	17,000	6,000	S	2,000	2,000	2,000
Male	14,000	14,000	14,000	3,000	S	2,000	2,000	S
Female	11,000	11,000	10,000	5,000	S	2,000	S	S
Sales/marketing	5,000	5,000	5,000	2,000	S	S	S	S
Male	4,000	4,000	4,000	S	S	S	S	S
Female	4,000	4,000	4,000	2,000	S	S	S	S
Social services/related	5,000	5,000	5,000	2,000	S	S	S	S
Male	4,000	4,000	4,000	S	S	S	S	S
Female	3,000	3,000	3,000	2,000	S	S	S	S
Other non-S&E fields	11,000	11,000	10,000	4,000	S	1,000	S	S
Male	7,000	7,000	6,000	2,000	S	S	S	S
Female	8,000	8,000	7,000	4,000	S	S	S	S
Master's degrees	50,000	47,000	45,000	17,000	10,000	22,000	17,000	14,000
Male	34,000	33,000	32,000	10,000	7,000	13,000	13,000	4,000
Female	34,000	32,000	31,000	14,000	7,000	18,000	12,000	13,000
S&E fields	33,000	28,000	26,000	9,000	5,000	14,000	12,000	8,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Male	24,000	22,000	21,000	5,000	4,000	10,000	10,000	3,000
Female	20,000	17,000	15,000	8,000	3,000	10,000	6,000	7,000
Sciences	30,000	25,000	23,000	9,000	4,000	13,000	11,000	7,000
Male	20,000	18,000	17,000	5,000	3,000	8,000	8,000	3,000
Female	19,000	16,000	15,000	7,000	3,000	10,000	6,000	7,000
Biological/agricultural/environmental life sciences	11,000	9,000	9,000	3,000	1,000	6,000	5,000	3,000
Male	8,000	7,000	7,000	1,000	1,000	4,000	4,000	1,000
Female	7,000	6,000	6,000	2,000	1,000	4,000	3,000	2,000
Agricultural/food sciences	4,000	4,000	4,000	1,000	S	1,000	1,000	500
Male	3,000	3,000	3,000	1,000	S	1,000	1,000	S
Female	3,000	3,000	3,000	1,000	S	500	S	*
Biological sciences	9,000	7,000	7,000	2,000	1,000	4,000	3,000	3,000
Male	6,000	5,000	5,000	1,000	1,000	2,000	2,000	1,000
Female	6,000	5,000	5,000	2,000	1,000	3,000	2,000	2,000
Environmental life sciences	5,000	4,000	4,000	1,000	S	4,000	4,000	1,000
Male	4,000	3,000	3,000	S	S	3,000	3,000	1,000
Female	3,000	2,000	2,000	1,000	S	2,000	S	*
Computer/mathematical sciences	12,000	11,000	10,000	4,000	3,000	4,000	3,000	2,000
Male	10,000	9,000	9,000	2,000	2,000	3,000	3,000	1,000
Female	8,000	7,000	6,000	4,000	2,000	3,000	1,000	2,000
Computer/information sciences	11,000	10,000	9,000	4,000	2,000	3,000	2,000	2,000
Male	9,000	9,000	9,000	1,000	1,000	2,000	1,000	1,000
Female	7,000	6,000	5,000	4,000	1,000	2,000	1,000	2,000
Mathematical sciences	7,000	5,000	5,000	2,000	2,000	3,000	3,000	1,000
Male	6,000	4,000	4,000	2,000	2,000	3,000	3,000	1,000
Female	4,000	4,000	3,000	2,000	500	2,000	1,000	1,000
Physical/related sciences	7,000	7,000	6,000	3,000	1,000	3,000	3,000	2,000
Male	6,000	6,000	5,000	2,000	1,000	3,000	3,000	1,000
Female	4,000	3,000	2,000	2,000	500	2,000	1,000	1,000
Chemistry, except biochemistry	5,000	4,000	4,000	2,000	500	2,000	2,000	1,000
Male	4,000	3,000	3,000	1,000	500	2,000	2,000	1,000
Female	2,000	2,000	1,000	2,000	500	1,000	500	1,000
Earth/atmospheric/ocean sciences	5,000	4,000	4,000	2,000	500	2,000	2,000	1,000
Male	4,000	4,000	3,000	1,000	S	1,000	1,000	500
Female	2,000	2,000	2,000	1,000	500	1,000	S	1,000
Physics/astronomy	4,000	3,000	3,000	1,000	1,000	2,000	1,000	1,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Male	3,000	3,000	3,000	1,000	1,000	1,000	1,000	500
Female	1,000	1,000	1,000	*	S	1,000	S	S
Other physical sciences	2,000	1,000	1,000	S	S	S	S	S
Male	1,000	1,000	1,000	S	S	S	S	S
Female	1,000	1,000	1,000	S	S	S	S	S
Social/related sciences	22,000	19,000	18,000	7,000	3,000	10,000	7,000	7,000
Male	14,000	13,000	13,000	4,000	2,000	5,000	5,000	2,000
Female	15,000	13,000	12,000	6,000	2,000	9,000	5,000	6,000
Economics	7,000	6,000	6,000	2,000	500	3,000	3,000	1,000
Male	6,000	6,000	5,000	1,000	500	3,000	3,000	1,000
Female	4,000	3,000	3,000	1,000	S	2,000	1,000	1,000
Political/related sciences	9,000	8,000	7,000	2,000	1,000	3,000	3,000	2,000
Male	7,000	6,000	6,000	1,000	1,000	2,000	2,000	1,000
Female	5,000	5,000	4,000	2,000	1,000	2,000	1,000	1,000
Psychology	16,000	14,000	14,000	6,000	2,000	8,000	5,000	6,000
Male	9,000	8,000	8,000	3,000	1,000	3,000	3,000	2,000
Female	13,000	10,000	10,000	5,000	2,000	8,000	4,000	6,000
Sociology/anthropology	6,000	5,000	4,000	3,000	1,000	2,000	2,000	1,000
Male	4,000	3,000	3,000	1,000	1,000	1,000	1,000	1,000
Female	4,000	4,000	3,000	3,000	S	2,000	1,000	1,000
Other social sciences	7,000	6,000	5,000	2,000	1,000	3,000	2,000	2,000
Male	4,000	4,000	4,000	2,000	500	2,000	2,000	*
Female	5,000	5,000	4,000	2,000	1,000	2,000	1,000	2,000
Engineering	13,000	12,000	11,000	4,000	2,000	6,000	5,000	3,000
Male	13,000	12,000	11,000	3,000	2,000	5,000	5,000	2,000
Female	5,000	4,000	4,000	2,000	1,000	2,000	500	2,000
Aerospace/related engineering	2,000	2,000	2,000	500	S	1,000	1,000	*
Male	2,000	2,000	2,000	*	S	1,000	1,000	S
Female	500	500	500	*	S	S	S	S
Chemical engineering	4,000	3,000	3,000	1,000	500	1,000	1,000	1,000
Male	3,000	3,000	3,000	1,000	*	1,000	1,000	1,000
Female	2,000	1,000	1,000	S	S	500	S	500
Civil/architectural engineering	5,000	5,000	4,000	2,000	1,000	2,000	2,000	1,000
Male	5,000	5,000	4,000	2,000	1,000	2,000	2,000	S
Female	2,000	2,000	1,000	1,000	S	500	S	500
Electrical/computer engineering	8,000	6,000	6,000	2,000	1,000	4,000	3,000	2,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Male	7,000	6,000	6,000	2,000	1,000	4,000	3,000	1,000
Female	3,000	2,000	2,000	500	1,000	2,000	S	2,000
Industrial engineering	3,000	2,000	2,000	500	1,000	2,000	2,000	1,000
Male	3,000	2,000	2,000	*	1,000	2,000	2,000	1,000
Female	2,000	1,000	1,000	*	*	1,000	S	1,000
Mechanical engineering	5,000	5,000	5,000	1,000	1,000	2,000	2,000	1,000
Male	5,000	5,000	5,000	1,000	1,000	2,000	2,000	1,000
Female	1,000	1,000	1,000	500	S	1,000	S	1,000
Other engineering	6,000	5,000	5,000	2,000	1,000	2,000	2,000	1,000
Male	6,000	5,000	5,000	1,000	1,000	2,000	2,000	1,000
Female	2,000	2,000	2,000	1,000	500	1,000	S	1,000
S&E-related fields	22,000	20,000	20,000	10,000	4,000	11,000	7,000	7,000
Male	12,000	12,000	11,000	4,000	3,000	4,000	4,000	1,000
Female	19,000	17,000	16,000	9,000	3,000	10,000	6,000	7,000
Health	17,000	16,000	16,000	8,000	4,000	8,000	5,000	6,000
Male	7,000	8,000	7,000	2,000	2,000	2,000	2,000	1,000
Female	16,000	15,000	14,000	8,000	3,000	8,000	5,000	6,000
Science/mathematics teacher education	9,000	8,000	7,000	4,000	1,000	5,000	4,000	2,000
Male	6,000	6,000	5,000	2,000	S	3,000	3,000	S
Female	8,000	7,000	6,000	4,000	1,000	3,000	3,000	2,000
Technology/technical fields	4,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000
Male	4,000	3,000	3,000	1,000	1,000	1,000	1,000	S
Female	3,000	2,000	2,000	S	S	1,000	S	1,000
Other S&E-related fields	7,000	7,000	7,000	2,000	1,000	2,000	2,000	S
Male	6,000	6,000	6,000	2,000	S	1,000	1,000	S
Female	3,000	3,000	3,000	1,000	S	1,000	S	S
Non-S&E fields	40,000	34,000	34,000	11,000	7,000	15,000	12,000	10,000
Male	28,000	26,000	26,000	8,000	5,000	10,000	9,000	3,000
Female	25,000	21,000	21,000	8,000	4,000	11,000	7,000	9,000
Arts/humanities	9,000	9,000	7,000	4,000	1,000	2,000	2,000	1,000
Male	7,000	7,000	5,000	4,000	S	2,000	2,000	S
Female	6,000	5,000	5,000	2,000	1,000	2,000	2,000	1,000
Education, except science/mathematics teacher education	24,000	21,000	21,000	5,000	2,000	11,000	8,000	7,000
Male	14,000	12,000	12,000	3,000	1,000	6,000	6,000	1,000
Female	19,000	16,000	16,000	4,000	2,000	8,000	5,000	6,000

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Management/administration	23,000	20,000	20,000	5,000	5,000	8,000	6,000	6,000
Male	18,000	17,000	17,000	4,000	4,000	6,000	5,000	2,000
Female	13,000	11,000	11,000	4,000	2,000	6,000	2,000	5,000
Sales/marketing	9,000	8,000	8,000	2,000	1,000	2,000	1,000	2,000
Male	7,000	7,000	7,000	1,000	1,000	1,000	1,000	S
Female	4,000	3,000	3,000	2,000	1,000	2,000	S	2,000
Social services/related	11,000	11,000	10,000	5,000	2,000	4,000	3,000	3,000
Male	7,000	7,000	6,000	2,000	S	3,000	2,000	1,000
Female	9,000	9,000	7,000	5,000	2,000	3,000	1,000	3,000
Other non-S&E fields	13,000	12,000	12,000	3,000	3,000	5,000	3,000	3,000
Male	10,000	10,000	9,000	2,000	2,000	2,000	2,000	S
Female	9,000	8,000	8,000	3,000	2,000	4,000	3,000	3,000
Doctorate degrees	11,000	11,000	10,000	3,000	2,000	5,000	4,000	2,000
Male	9,000	8,000	8,000	2,000	1,000	3,000	3,000	1,000
Female	6,000	6,000	6,000	2,000	1,000	3,000	3,000	2,000
S&E fields	5,000	5,000	5,000	2,000	1,000	3,000	2,000	1,000
Male	4,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000
Female	4,000	3,000	3,000	1,000	1,000	2,000	2,000	1,000
Sciences	5,000	5,000	5,000	2,000	1,000	2,000	2,000	1,000
Male	4,000	4,000	4,000	1,000	1,000	1,000	1,000	1,000
Female	4,000	3,000	3,000	1,000	1,000	2,000	2,000	1,000
Biological/agricultural/environmental life sciences	4,000	3,000	3,000	1,000	1,000	2,000	2,000	500
Male	3,000	2,000	2,000	1,000	500	1,000	1,000	500
Female	3,000	2,000	2,000	1,000	1,000	2,000	2,000	500
Agricultural/food sciences	1,000	1,000	1,000	500	*	500	500	*
Male	1,000	1,000	1,000	500	*	500	500	S
Female	500	500	500	*	*	500	*	*
Biological sciences	4,000	3,000	3,000	1,000	1,000	2,000	2,000	500
Male	2,000	2,000	2,000	1,000	500	1,000	1,000	500
Female	3,000	2,000	2,000	1,000	1,000	2,000	2,000	500
Environmental life sciences	500	500	500	*	S	500	500	S
Male	500	500	500	*	S	500	500	S
Female	500	500	500	*	S	S	S	S
Computer/mathematical sciences	2,000	2,000	2,000	500	500	500	500	500
Male	1,000	1,000	1,000	500	500	500	500	500
Female	2,000	2,000	2,000	500	*	500	*	*

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Computer/information sciences	1,000	1,000	1,000	500	*	*	*	*
Male	1,000	1,000	1,000	500	*	*	S	*
Female	500	500	500	*	S	*	S	*
Mathematical sciences	2,000	2,000	2,000	500	500	500	500	500
Male	1,000	1,000	1,000	500	500	500	500	*
Female	2,000	2,000	2,000	500	*	500	*	*
Physical/related sciences	2,000	2,000	2,000	500	500	1,000	1,000	1,000
Male	2,000	2,000	2,000	500	500	1,000	1,000	500
Female	1,000	1,000	1,000	500	500	1,000	500	1,000
Chemistry, except biochemistry	2,000	2,000	2,000	500	500	1,000	1,000	500
Male	1,000	1,000	1,000	500	500	1,000	1,000	500
Female	1,000	1,000	1,000	500	*	500	500	500
Earth/atmospheric/ocean sciences	1,000	1,000	1,000	500	*	500	500	*
Male	1,000	1,000	1,000	500	*	500	500	*
Female	500	500	500	*	*	*	*	*
Physics/astronomy	1,000	1,000	1,000	500	500	1,000	500	500
Male	1,000	1,000	1,000	500	500	500	500	*
Female	1,000	500	500	*	*	500	*	500
Other physical sciences	1,000	1,000	1,000	*	S	*	*	S
Male	1,000	1,000	1,000	*	S	*	*	S
Female	500	500	500	S	S	S	S	S
Social/related sciences	2,000	2,000	2,000	1,000	500	1,000	1,000	1,000
Male	1,000	1,000	1,000	1,000	500	1,000	1,000	1,000
Female	2,000	1,000	1,000	1,000	500	1,000	500	1,000
Economics	1,000	1,000	1,000	500	*	500	500	500
Male	1,000	1,000	500	500	*	500	500	*
Female	500	500	500	*	*	*	*	*
Political/related sciences	1,000	1,000	1,000	500	*	1,000	500	1,000
Male	1,000	1,000	1,000	500	*	500	500	S
Female	1,000	500	500	*	*	1,000	*	1,000
Psychology	1,000	1,000	1,000	1,000	500	1,000	500	500
Male	1,000	1,000	1,000	500	500	500	500	500
Female	1,000	1,000	1,000	1,000	500	500	500	500
Sociology/anthropology	1,000	1,000	1,000	500	500	500	500	500
Male	500	500	500	500	*	500	500	*
Female	1,000	1,000	1,000	500	*	500	500	*

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other social sciences	1,000	1,000	1,000	1,000	*	500	500	500
Male	1,000	1,000	1,000	1,000	S	500	500	*
Female	500	500	500	500	*	500	500	500
Engineering	2,000	2,000	2,000	1,000	1,000	1,000	1,000	500
Male	2,000	2,000	2,000	1,000	1,000	1,000	1,000	500
Female	500	500	500	500	*	500	*	500
Aerospace/related engineering	1,000	1,000	1,000	500	S	500	500	S
Male	1,000	1,000	1,000	500	S	500	500	S
Female	*	*	*	S	S	S	S	S
Chemical engineering	1,000	1,000	1,000	500	500	500	500	*
Male	1,000	1,000	1,000	500	*	500	500	S
Female	500	500	500	*	S	*	S	*
Civil/architectural engineering	1,000	1,000	1,000	500	*	500	500	S
Male	1,000	1,000	1,000	*	*	500	500	S
Female	500	500	500	*	S	S	S	S
Electrical/computer engineering	1,000	1,000	1,000	500	500	500	500	500
Male	1,000	1,000	1,000	500	500	500	500	500
Female	500	500	500	*	*	*	S	*
Industrial engineering	500	500	500	S	S	*	*	*
Male	500	500	500	S	S	*	S	S
Female	500	500	500	S	S	S	S	S
Mechanical engineering	1,000	1,000	1,000	500	500	500	500	*
Male	1,000	1,000	1,000	500	500	500	500	S
Female	500	500	500	S	S	S	S	S
Other engineering	1,000	1,000	1,000	500	500	500	500	500
Male	1,000	1,000	1,000	500	500	500	500	500
Female	500	500	500	*	*	*	S	*
S&E-related fields	5,000	4,000	4,000	1,000	500	2,000	2,000	1,000
Male	4,000	4,000	4,000	1,000	*	2,000	2,000	1,000
Female	3,000	3,000	3,000	1,000	*	1,000	500	500
Health	3,000	3,000	3,000	1,000	500	1,000	1,000	500
Male	2,000	1,000	1,000	500	*	1,000	1,000	*
Female	2,000	2,000	2,000	500	*	1,000	500	500
Science/mathematics teacher education	3,000	2,000	2,000	500	S	1,000	1,000	S
Male	2,000	2,000	2,000	S	S	1,000	1,000	S
Female	1,000	1,000	1,000	S	S	S	S	S

TABLE A-8. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, and employment status: 2003

Level and field of highest degree, and sex	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Technology/technical fields	1,000	1,000	1,000	S	S	S	S	S
Male	1,000	1,000	1,000	S	S	S	S	S
Female	S	S	S	S	S	S	S	S
Other S&E-related fields	3,000	3,000	3,000	S	S	S	S	S
Male	3,000	3,000	3,000	S	S	S	S	S
Female	1,000	1,000	500	S	S	S	S	S
Non-S&E degrees	8,000	8,000	8,000	2,000	1,000	3,000	3,000	1,000
Male	7,000	6,000	6,000	1,000	S	2,000	2,000	S
Female	5,000	4,000	4,000	2,000	1,000	3,000	2,000	1,000
Arts/humanities	2,000	2,000	2,000	1,000	S	1,000	1,000	S
Male	2,000	2,000	2,000	S	S	1,000	1,000	S
Female	1,000	1,000	1,000	1,000	S	S	S	S
Education, except science/mathematics teacher education	7,000	6,000	6,000	2,000	1,000	2,000	2,000	S
Male	6,000	5,000	5,000	1,000	S	2,000	2,000	S
Female	4,000	3,000	3,000	1,000	S	1,000	1,000	S
Management/administration	3,000	2,000	2,000	1,000	S	1,000	1,000	S
Male	2,000	2,000	2,000	S	S	S	S	S
Female	1,000	1,000	1,000	S	S	S	S	S
Sales/marketing	500	500	500	S	S	S	S	S
Male	500	500	500	S	S	S	S	S
Female	500	500	500	S	S	S	S	S
Social services/related	3,000	3,000	3,000	1,000	S	S	S	S
Male	3,000	3,000	3,000	S	S	S	S	S
Female	1,000	1,000	1,000	S	S	S	S	S
Other non-S&E fields	4,000	3,000	3,000	1,000	S	2,000	2,000	S
Male	2,000	2,000	2,000	1,000	S	S	S	S
Female	3,000	2,000	2,000	S	S	2,000	S	S

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
All degree levels and fields[b]	84,000	82,000	76,000	33,000	19,000	44,000	30,000	30,000
American Indian/Alaska Native	7,000	6,000	6,000	2,000	2,000	3,000	2,000	3,000
Asian	24,000	22,000	21,000	8,000	6,000	10,000	4,000	9,000
Black	20,000	20,000	19,000	5,000	4,000	8,000	5,000	6,000
Hispanic	21,000	20,000	19,000	5,000	4,000	7,000	5,000	5,000
White	79,000	77,000	72,000	33,000	16,000	42,000	29,000	28,000
Other	13,000	12,000	12,000	3,000	2,000	5,000	3,000	5,000
S&E fields	73,000	67,000	65,000	23,000	14,000	35,000	25,000	23,000
American Indian/Alaska Native	5,000	4,000	4,000	1,000	2,000	3,000	1,000	2,000
Asian	19,000	18,000	17,000	6,000	4,000	8,000	3,000	8,000
Black	16,000	15,000	15,000	4,000	4,000	6,000	4,000	5,000
Hispanic	16,000	14,000	13,000	3,000	4,000	6,000	4,000	4,000
White	68,000	61,000	60,000	23,000	12,000	34,000	24,000	22,000
Other	9,000	8,000	7,000	2,000	1,000	5,000	3,000	4,000
Sciences	69,000	64,000	60,000	22,000	13,000	32,000	22,000	23,000
American Indian/Alaska Native	5,000	4,000	4,000	1,000	S	3,000	1,000	2,000
Asian	17,000	15,000	15,000	6,000	4,000	7,000	2,000	7,000
Black	16,000	15,000	15,000	4,000	4,000	6,000	4,000	4,000
Hispanic	14,000	12,000	12,000	3,000	3,000	5,000	3,000	4,000
White	64,000	58,000	55,000	22,000	11,000	31,000	22,000	21,000
Other	9,000	7,000	6,000	2,000	1,000	5,000	3,000	4,000
Biological/agricultural/environmental life sciences	31,000	27,000	27,000	9,000	5,000	14,000	10,000	10,000
American Indian/Alaska Native	1,000	1,000	1,000	500	S	1,000	S	500
Asian	8,000	7,000	7,000	2,000	2,000	4,000	1,000	4,000
Black	5,000	5,000	5,000	1,000	1,000	2,000	1,000	2,000
Hispanic	7,000	6,000	6,000	1,000	2,000	2,000	1,000	2,000
White	28,000	24,000	24,000	8,000	5,000	13,000	10,000	8,000
Other	4,000	3,000	3,000	1,000	S	2,000	1,000	2,000
Agricultural/food sciences	13,000	12,000	12,000	4,000	2,000	5,000	4,000	3,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S
Asian	3,000	3,000	3,000	500	S	1,000	500	1,000
Black	1,000	1,000	1,000	*	S	S	S	S
Hispanic	2,000	2,000	2,000	500	S	1,000	1,000	*
White	13,000	12,000	11,000	4,000	2,000	4,000	3,000	2,000
Other	2,000	2,000	2,000	S	S	S	S	S
Biological sciences	28,000	25,000	25,000	7,000	4,000	13,000	8,000	9,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	500	S	S
Asian	8,000	7,000	7,000	2,000	1,000	4,000	1,000	4,000
Black	5,000	5,000	5,000	1,000	1,000	2,000	1,000	2,000

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Hispanic	7,000	6,000	6,000	1,000	2,000	2,000	500	2,000
White	25,000	23,000	22,000	7,000	4,000	12,000	8,000	8,000
Other	3,000	2,000	2,000	1,000	S	2,000	S	2,000
Environmental life sciences	10,000	9,000	9,000	2,000	2,000	5,000	4,000	3,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	2,000	1,000	1,000	S	S	1,000	S	1,000
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	9,000	8,000	8,000	2,000	2,000	5,000	4,000	2,000
Other	1,000	1,000	1,000	S	S	S	S	S
Computer/mathematical sciences	26,000	24,000	21,000	10,000	5,000	11,000	7,000	8,000
American Indian/Alaska Native	3,000	3,000	3,000	S	S	S	S	S
Asian	9,000	9,000	8,000	3,000	2,000	4,000	1,000	4,000
Black	7,000	7,000	7,000	1,000	2,000	2,000	1,000	2,000
Hispanic	5,000	5,000	5,000	1,000	1,000	2,000	1,000	1,000
White	24,000	22,000	21,000	10,000	4,000	10,000	7,000	7,000
Other	3,000	3,000	3,000	1,000	500	1,000	S	1,000
Computer/information sciences	19,000	18,000	16,000	7,000	4,000	6,000	3,000	5,000
American Indian/Alaska Native	3,000	3,000	3,000	S	S	S	S	S
Asian	8,000	8,000	7,000	3,000	2,000	2,000	1,000	2,000
Black	6,000	5,000	5,000	1,000	2,000	2,000	S	2,000
Hispanic	5,000	4,000	4,000	1,000	1,000	1,000	S	1,000
White	16,000	16,000	15,000	6,000	3,000	5,000	3,000	4,000
Other	3,000	3,000	3,000	S	S	500	S	S
Mathematical sciences	19,000	16,000	15,000	6,000	3,000	9,000	7,000	6,000
American Indian/Alaska Native	500	S	S	S	S	S	S	S
Asian	5,000	4,000	4,000	2,000	1,000	3,000	1,000	3,000
Black	4,000	4,000	4,000	1,000	500	1,000	1,000	1,000
Hispanic	2,000	2,000	2,000	1,000	1,000	1,000	1,000	500
White	18,000	15,000	14,000	6,000	3,000	8,000	7,000	5,000
Other	2,000	2,000	2,000	S	S	1,000	S	S
Physical/related sciences	18,000	16,000	15,000	4,000	3,000	9,000	7,000	5,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	6,000	5,000	5,000	3,000	1,000	2,000	1,000	2,000
Black	3,000	3,000	2,000	1,000	*	1,000	1,000	500
Hispanic	3,000	3,000	3,000	500	*	1,000	500	500
White	16,000	14,000	13,000	4,000	3,000	8,000	7,000	4,000
Other	4,000	1,000	1,000	500	*	4,000	2,000	3,000
Chemistry, except biochemistry	14,000	12,000	12,000	3,000	2,000	7,000	5,000	5,000

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	5,000	4,000	4,000	2,000	1,000	2,000	500	1,000
Black	2,000	2,000	2,000	500	*	1,000	1,000	500
Hispanic	2,000	2,000	2,000	*	*	1,000	500	500
White	12,000	11,000	10,000	3,000	1,000	6,000	5,000	3,000
Other	3,000	1,000	1,000	500	S	3,000	S	S
Earth/atmospheric/ocean sciences	10,000	9,000	8,000	2,000	2,000	4,000	4,000	2,000
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	1,000	1,000	1,000	1,000	*	500	S	*
Black	1,000	500	500	S	S	S	S	S
Hispanic	1,000	1,000	1,000	*	S	*	S	S
White	10,000	9,000	9,000	2,000	2,000	4,000	4,000	2,000
Other	500	500	500	S	S	S	S	S
Physics/astronomy	7,000	6,000	6,000	2,000	1,000	3,000	3,000	1,000
American Indian/Alaska Native	1,000	*	*	S	S	S	S	S
Asian	2,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000
Black	1,000	1,000	1,000	*	S	*	S	*
Hispanic	1,000	1,000	1,000	500	S	*	S	*
White	6,000	5,000	5,000	1,000	1,000	3,000	3,000	500
Other	500	500	500	S	S	S	S	S
Other physical sciences	6,000	5,000	5,000	1,000	1,000	3,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	2,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	5,000	5,000	4,000	1,000	S	2,000	2,000	1,000
Other	S	S	S	S	S	S	S	S
Social/related sciences	56,000	50,000	49,000	18,000	10,000	24,000	16,000	20,000
American Indian/Alaska Native	4,000	3,000	3,000	1,000	S	2,000	S	2,000
Asian	10,000	10,000	9,000	4,000	2,000	5,000	2,000	4,000
Black	14,000	13,000	12,000	3,000	3,000	5,000	4,000	4,000
Hispanic	11,000	9,000	9,000	3,000	3,000	4,000	3,000	3,000
White	54,000	47,000	46,000	18,000	9,000	24,000	15,000	19,000
Other	6,000	6,000	5,000	2,000	1,000	2,000	2,000	2,000
Economics	21,000	20,000	20,000	6,000	4,000	9,000	7,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	7,000	6,000	6,000	2,000	2,000	3,000	1,000	3,000
Black	3,000	3,000	3,000	*	1,000	2,000	2,000	1,000
Hispanic	4,000	3,000	3,000	500	1,000	1,000	1,000	1,000

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
White	20,000	19,000	19,000	5,000	4,000	9,000	7,000	5,000
Other	2,000	2,000	2,000	S	S	500	S	S
Political/related sciences	27,000	23,000	23,000	6,000	6,000	10,000	6,000	7,000
American Indian/Alaska Native	2,000	2,000	2,000	S	S	S	S	S
Asian	5,000	4,000	4,000	1,000	1,000	2,000	1,000	2,000
Black	6,000	6,000	6,000	1,000	2,000	2,000	1,000	2,000
Hispanic	5,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000
White	24,000	21,000	21,000	5,000	5,000	9,000	6,000	6,000
Other	3,000	3,000	3,000	1,000	S	1,000	S	S
Psychology	34,000	28,000	26,000	12,000	6,000	16,000	11,000	13,000
American Indian/Alaska Native	2,000	1,000	1,000	*	S	S	S	S
Asian	6,000	5,000	5,000	1,000	1,000	2,000	1,000	2,000
Black	8,000	7,000	7,000	2,000	2,000	3,000	2,000	2,000
Hispanic	6,000	5,000	5,000	2,000	2,000	3,000	2,000	2,000
White	33,000	27,000	25,000	12,000	5,000	16,000	10,000	12,000
Other	4,000	3,000	3,000	1,000	1,000	2,000	1,000	1,000
Sociology/anthropology	24,000	20,000	19,000	9,000	5,000	13,000	6,000	11,000
American Indian/Alaska Native	2,000	1,000	1,000	S	S	S	S	S
Asian	4,000	3,000	3,000	2,000	500	2,000	500	2,000
Black	7,000	6,000	6,000	1,000	2,000	3,000	2,000	2,000
Hispanic	4,000	4,000	3,000	1,000	2,000	1,000	1,000	1,000
White	23,000	18,000	17,000	8,000	4,000	13,000	6,000	11,000
Other	3,000	3,000	2,000	1,000	500	S	S	S
Other social sciences	19,000	17,000	16,000	5,000	2,000	7,000	5,000	5,000
American Indian/Alaska Native	2,000	2,000	2,000	S	S	S	S	S
Asian	3,000	3,000	2,000	1,000	S	2,000	1,000	1,000
Black	5,000	5,000	5,000	2,000	*	1,000	1,000	500
Hispanic	5,000	5,000	5,000	1,000	S	2,000	1,000	1,000
White	16,000	15,000	14,000	5,000	2,000	6,000	4,000	4,000
Other	2,000	2,000	2,000	1,000	S	500	S	500
Engineering	33,000	28,000	27,000	8,000	6,000	14,000	13,000	6,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	10,000	10,000	10,000	2,000	2,000	3,000	2,000	2,000
Black	5,000	4,000	4,000	1,000	1,000	1,000	1,000	1,000
Hispanic	7,000	6,000	6,000	1,000	1,000	3,000	2,000	2,000
White	30,000	25,000	24,000	7,000	6,000	13,000	13,000	5,000
Other	5,000	4,000	4,000	500	500	1,000	1,000	500
Aerospace/related engineering	8,000	7,000	7,000	1,000	1,000	2,000	2,000	500
American Indian/Alaska Native	500	500	500	S	S	S	S	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Asian	1,000	1,000	1,000	*	S	*	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	500	S	S	S	S
White	7,000	6,000	6,000	1,000	1,000	2,000	2,000	*
Other	1,000	1,000	1,000	S	S	S	S	S
Chemical engineering	9,000	7,000	7,000	1,000	1,000	4,000	4,000	2,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	3,000	3,000	3,000	500	500	1,000	1,000	500
Black	1,000	1,000	1,000	S	S	*	S	*
Hispanic	2,000	2,000	2,000	*	S	500	S	*
White	8,000	6,000	6,000	1,000	1,000	4,000	3,000	2,000
Other	1,000	1,000	1,000	S	S	S	S	S
Civil/architectural engineering	13,000	12,000	11,000	3,000	2,000	5,000	5,000	2,000
American Indian/Alaska Native	500	500	500	S	S	S	S	S
Asian	4,000	3,000	3,000	1,000	1,000	1,000	1,000	1,000
Black	2,000	2,000	2,000	*	S	S	S	S
Hispanic	4,000	4,000	4,000	500	S	1,000	1,000	500
White	11,000	10,000	9,000	3,000	2,000	5,000	4,000	2,000
Other	3,000	3,000	3,000	S	S	S	S	S
Electrical/computer engineering	16,000	13,000	13,000	4,000	3,000	8,000	7,000	3,000
American Indian/Alaska Native	500	S	S	S	S	S	S	S
Asian	6,000	6,000	6,000	1,000	1,000	1,000	1,000	1,000
Black	3,000	3,000	3,000	1,000	1,000	1,000	1,000	*
Hispanic	3,000	2,000	2,000	*	1,000	1,000	1,000	1,000
White	14,000	11,000	11,000	3,000	2,000	8,000	7,000	3,000
Other	3,000	3,000	3,000	S	S	1,000	S	S
Industrial engineering	10,000	9,000	8,000	2,000	2,000	6,000	5,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	*	500	1,000	S	1,000
Black	2,000	1,000	1,000	S	S	S	S	S
Hispanic	3,000	2,000	2,000	*	S	2,000	S	1,000
White	10,000	8,000	8,000	2,000	2,000	5,000	5,000	2,000
Other	500	500	500	S	S	S	S	S
Mechanical engineering	16,000	15,000	14,000	4,000	3,000	7,000	7,000	2,000
American Indian/Alaska Native	1,000	1,000	500	S	S	S	S	S
Asian	4,000	4,000	4,000	1,000	1,000	1,000	1,000	500
Black	2,000	2,000	2,000	*	S	*	S	S
Hispanic	2,000	2,000	2,000	*	S	1,000	1,000	500
White	16,000	14,000	13,000	4,000	3,000	7,000	6,000	2,000

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other	1,000	1,000	1,000	S	S	S	S	S
Other engineering	13,000	12,000	11,000	3,000	2,000	6,000	5,000	3,000
American Indian/Alaska Native	500	500	S	S	S	S	S	S
Asian	3,000	3,000	3,000	1,000	1,000	1,000	1,000	1,000
Black	1,000	1,000	1,000	S	*	S	S	S
Hispanic	3,000	2,000	2,000	1,000	S	1,000	S	1,000
White	12,000	11,000	11,000	3,000	2,000	5,000	5,000	2,000
Other	1,000	1,000	1,000	S	S	*	S	S
S&E-related fields	42,000	39,000	37,000	21,000	7,000	24,000	15,000	17,000
American Indian/Alaska Native	3,000	3,000	2,000	1,000	S	1,000	1,000	S
Asian	13,000	11,000	11,000	4,000	2,000	6,000	2,000	5,000
Black	10,000	9,000	9,000	2,000	1,000	4,000	3,000	3,000
Hispanic	11,000	10,000	10,000	3,000	1,000	3,000	2,000	2,000
White	41,000	37,000	37,000	20,000	7,000	22,000	15,000	16,000
Other	7,000	7,000	6,000	2,000	S	2,000	1,000	1,000
Health	36,000	31,000	30,000	20,000	6,000	22,000	12,000	17,000
American Indian/Alaska Native	3,000	3,000	2,000	1,000	S	1,000	S	S
Asian	11,000	10,000	10,000	4,000	2,000	5,000	2,000	5,000
Black	9,000	8,000	8,000	2,000	1,000	3,000	2,000	3,000
Hispanic	9,000	8,000	8,000	3,000	1,000	3,000	2,000	2,000
White	34,000	30,000	29,000	19,000	6,000	20,000	11,000	16,000
Other	6,000	6,000	6,000	1,000	S	2,000	1,000	1,000
Science/mathematics teacher education	17,000	15,000	13,000	6,000	2,000	8,000	8,000	3,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S
Asian	3,000	3,000	3,000	1,000	S	S	S	S
Black	3,000	3,000	3,000	1,000	S	2,000	2,000	S
Hispanic	3,000	3,000	2,000	1,000	S	1,000	S	S
White	16,000	15,000	12,000	6,000	2,000	8,000	7,000	3,000
Other	1,000	1,000	1,000	S	S	S	S	S
Technology/technical fields	15,000	14,000	14,000	4,000	3,000	6,000	4,000	4,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S
Asian	5,000	4,000	4,000	2,000	2,000	1,000	S	1,000
Black	3,000	3,000	3,000	S	S	S	S	S
Hispanic	3,000	3,000	3,000	S	S	S	S	S
White	13,000	12,000	12,000	3,000	3,000	5,000	4,000	3,000
Other	2,000	1,000	1,000	S	S	S	S	S
Other S&E-related fields	15,000	15,000	14,000	5,000	1,000	4,000	2,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	3,000	3,000	3,000	1,000	1,000	2,000	500	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Black	3,000	3,000	3,000	S	S	S	S	S
Hispanic	3,000	3,000	3,000	S	S	S	S	S
White	14,000	14,000	13,000	5,000	1,000	4,000	2,000	3,000
Other	1,000	1,000	1,000	S	S	S	S	S
Non-S&E fields	52,000	45,000	43,000	15,000	8,000	17,000	13,000	10,000
American Indian/Alaska Native	4,000	4,000	4,000	1,000	S	S	S	S
Asian	11,000	9,000	9,000	2,000	2,000	3,000	1,000	3,000
Black	12,000	12,000	11,000	2,000	2,000	3,000	3,000	1,000
Hispanic	8,000	9,000	8,000	2,000	1,000	3,000	2,000	2,000
White	47,000	42,000	40,000	14,000	7,000	16,000	13,000	10,000
Other	6,000	6,000	6,000	2,000	1,000	1,000	1,000	1,000
Arts/humanities	16,000	16,000	14,000	6,000	2,000	3,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	3,000	3,000	3,000	1,000	S	1,000	S	S
Black	2,000	2,000	2,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	16,000	16,000	14,000	6,000	1,000	3,000	2,000	2,000
Other	1,000	1,000	1,000	S	S	S	S	S
Education, except science/mathematics teacher education	28,000	25,000	25,000	6,000	2,000	11,000	8,000	7,000
American Indian/Alaska Native	2,000	2,000	2,000	S	S	S	S	S
Asian	3,000	2,000	2,000	1,000	1,000	1,000	S	S
Black	7,000	6,000	5,000	1,000	1,000	3,000	3,000	S
Hispanic	4,000	4,000	4,000	1,000	S	1,000	1,000	1,000
White	27,000	24,000	24,000	6,000	2,000	10,000	8,000	7,000
Other	2,000	2,000	2,000	1,000	S	1,000	S	S
Management/administration	30,000	28,000	27,000	8,000	5,000	9,000	6,000	6,000
American Indian/Alaska Native	3,000	3,000	3,000	S	S	S	S	S
Asian	8,000	7,000	7,000	2,000	2,000	3,000	1,000	3,000
Black	7,000	7,000	7,000	1,000	1,000	1,000	1,000	S
Hispanic	5,000	5,000	5,000	1,000	1,000	1,000	S	S
White	28,000	26,000	25,000	7,000	4,000	9,000	6,000	6,000
Other	5,000	5,000	5,000	S	S	1,000	500	S
Sales/marketing	10,000	10,000	10,000	3,000	2,000	2,000	1,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	S	S	S	S
Black	2,000	2,000	1,000	S	S	S	S	S
Hispanic	2,000	1,000	1,000	S	S	S	S	S
White	10,000	9,000	9,000	3,000	1,000	2,000	1,000	2,000
Other	1,000	1,000	1,000	S	S	S	S	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Social services/related	13,000	13,000	11,000	6,000	2,000	4,000	3,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	S	1,000	S	1,000
Black	4,000	3,000	3,000	S	S	1,000	S	S
Hispanic	2,000	2,000	2,000	S	S	1,000	S	S
White	13,000	12,000	11,000	5,000	2,000	4,000	3,000	3,000
Other	2,000	2,000	1,000	S	S	S	S	S
Other non-S&E fields	24,000	23,000	22,000	8,000	4,000	8,000	6,000	5,000
American Indian/Alaska Native	2,000	2,000	1,000	S	S	S	S	S
Asian	4,000	4,000	4,000	1,000	1,000	1,000	1,000	1,000
Black	5,000	5,000	5,000	1,000	1,000	1,000	1,000	S
Hispanic	4,000	4,000	4,000	1,000	S	2,000	1,000	1,000
White	23,000	22,000	20,000	7,000	4,000	7,000	5,000	5,000
Other	3,000	3,000	2,000	1,000	S	S	S	S
Bachelor's degrees	73,000	69,000	66,000	29,000	15,000	38,000	26,000	27,000
American Indian/Alaska Native	6,000	5,000	5,000	1,000	2,000	3,000	1,000	3,000
Asian	20,000	18,000	17,000	6,000	4,000	9,000	3,000	8,000
Black	17,000	16,000	16,000	4,000	4,000	6,000	4,000	4,000
Hispanic	17,000	15,000	15,000	4,000	4,000	6,000	4,000	4,000
White	68,000	64,000	61,000	29,000	13,000	35,000	26,000	25,000
Other	11,000	10,000	10,000	3,000	1,000	5,000	3,000	4,000
S&E fields	66,000	60,000	58,000	22,000	14,000	31,000	23,000	22,000
American Indian/Alaska Native	5,000	4,000	4,000	1,000	2,000	3,000	S	2,000
Asian	16,000	14,000	14,000	5,000	4,000	7,000	2,000	7,000
Black	15,000	14,000	14,000	3,000	4,000	5,000	3,000	4,000
Hispanic	15,000	13,000	13,000	3,000	4,000	6,000	4,000	4,000
White	63,000	57,000	54,000	22,000	12,000	30,000	22,000	21,000
Other	9,000	7,000	7,000	2,000	1,000	5,000	3,000	4,000
Sciences	64,000	59,000	56,000	21,000	12,000	30,000	20,000	22,000
American Indian/Alaska Native	5,000	4,000	4,000	1,000	S	2,000	S	2,000
Asian	14,000	12,000	12,000	5,000	3,000	7,000	2,000	7,000
Black	15,000	14,000	14,000	3,000	4,000	5,000	3,000	4,000
Hispanic	13,000	12,000	11,000	3,000	3,000	5,000	3,000	4,000
White	60,000	55,000	51,000	21,000	11,000	28,000	19,000	20,000
Other	8,000	6,000	6,000	2,000	1,000	5,000	2,000	4,000
Biological/agricultural/environmental life sciences	29,000	26,000	25,000	8,000	5,000	13,000	9,000	9,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	7,000	6,000	6,000	2,000	2,000	4,000	1,000	4,000
Black	5,000	5,000	5,000	1,000	1,000	2,000	1,000	2,000

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Hispanic	7,000	6,000	6,000	1,000	2,000	2,000	S	2,000
White	27,000	24,000	23,000	8,000	4,000	12,000	8,000	8,000
Other	4,000	3,000	3,000	1,000	S	2,000	S	2,000
Agricultural/food sciences	13,000	12,000	12,000	4,000	2,000	4,000	4,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	3,000	3,000	3,000	S	S	1,000	S	1,000
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	1,000	S	*
White	12,000	11,000	11,000	4,000	2,000	4,000	3,000	2,000
Other	2,000	1,000	1,000	S	S	S	S	S
Biological sciences	27,000	24,000	23,000	7,000	4,000	12,000	8,000	9,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	7,000	6,000	6,000	2,000	1,000	3,000	1,000	3,000
Black	5,000	5,000	5,000	1,000	1,000	2,000	1,000	2,000
Hispanic	7,000	6,000	6,000	1,000	2,000	2,000	S	2,000
White	25,000	22,000	21,000	7,000	3,000	11,000	8,000	8,000
Other	3,000	2,000	2,000	1,000	S	2,000	S	2,000
Environmental life sciences	9,000	7,000	7,000	2,000	2,000	4,000	2,000	2,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	2,000	S	S	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	8,000	7,000	7,000	2,000	1,000	3,000	2,000	2,000
Other	1,000	1,000	1,000	S	S	S	S	S
Computer/mathematical sciences	24,000	21,000	20,000	9,000	4,000	11,000	7,000	8,000
American Indian/Alaska Native	3,000	2,000	2,000	S	S	S	S	S
Asian	7,000	6,000	6,000	2,000	2,000	3,000	1,000	3,000
Black	7,000	6,000	6,000	1,000	1,000	2,000	1,000	2,000
Hispanic	5,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000
White	22,000	21,000	19,000	9,000	4,000	9,000	7,000	6,000
Other	3,000	3,000	3,000	S	500	1,000	S	S
Computer/information sciences	17,000	16,000	15,000	6,000	4,000	6,000	2,000	5,000
American Indian/Alaska Native	3,000	2,000	2,000	S	S	S	S	S
Asian	6,000	5,000	5,000	1,000	1,000	2,000	S	2,000
Black	6,000	5,000	5,000	1,000	1,000	2,000	S	2,000
Hispanic	4,000	4,000	4,000	1,000	1,000	1,000	S	1,000
White	14,000	14,000	14,000	6,000	3,000	5,000	2,000	4,000
Other	2,000	2,000	2,000	S	S	S	S	S
Mathematical sciences	18,000	15,000	14,000	6,000	3,000	9,000	6,000	6,000

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	5,000	4,000	3,000	2,000	1,000	3,000	1,000	3,000
Black	3,000	3,000	3,000	1,000	500	1,000	1,000	1,000
Hispanic	2,000	2,000	2,000	S	S	1,000	1,000	*
White	17,000	15,000	14,000	6,000	2,000	8,000	6,000	5,000
Other	2,000	2,000	2,000	S	S	S	S	S
Physical/related sciences	16,000	14,000	13,000	4,000	3,000	8,000	7,000	5,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	4,000	4,000	4,000	2,000	1,000	2,000	1,000	1,000
Black	3,000	2,000	2,000	500	S	1,000	1,000	500
Hispanic	3,000	3,000	3,000	500	*	1,000	S	500
White	14,000	13,000	12,000	3,000	2,000	7,000	6,000	4,000
Other	4,000	1,000	1,000	500	S	4,000	S	3,000
Chemistry, except biochemistry	13,000	11,000	11,000	3,000	1,000	6,000	4,000	5,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	4,000	4,000	3,000	2,000	1,000	1,000	500	1,000
Black	2,000	2,000	2,000	500	S	1,000	1,000	*
Hispanic	2,000	2,000	2,000	S	S	500	S	500
White	11,000	10,000	9,000	3,000	1,000	5,000	4,000	3,000
Other	3,000	1,000	1,000	500	S	S	S	S
Earth/atmospheric/ocean sciences	9,000	8,000	8,000	2,000	2,000	4,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	1,000	500	500	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	9,000	8,000	8,000	2,000	2,000	4,000	3,000	2,000
Other	500	500	500	S	S	S	S	S
Physics/astronomy	7,000	6,000	6,000	1,000	1,000	3,000	3,000	1,000
American Indian/Alaska Native	*	*	S	S	S	S	S	S
Asian	2,000	2,000	2,000	1,000	1,000	1,000	S	1,000
Black	1,000	1,000	1,000	*	S	*	S	*
Hispanic	1,000	1,000	1,000	500	S	*	S	*
White	6,000	5,000	5,000	1,000	500	3,000	3,000	500
Other	500	500	500	S	S	S	S	S
Other physical sciences	6,000	5,000	5,000	500	S	3,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
White	5,000	4,000	4,000	*	S	2,000	2,000	1,000
Other	S	S	S	S	S	S	S	S
Social/related sciences	52,000	45,000	43,000	16,000	10,000	23,000	14,000	19,000
American Indian/Alaska Native	4,000	3,000	3,000	1,000	S	2,000	S	S
Asian	10,000	9,000	9,000	3,000	2,000	4,000	1,000	4,000
Black	13,000	12,000	11,000	3,000	3,000	4,000	3,000	3,000
Hispanic	10,000	9,000	9,000	2,000	3,000	4,000	3,000	3,000
White	50,000	43,000	40,000	16,000	9,000	23,000	14,000	18,000
Other	6,000	5,000	5,000	2,000	1,000	2,000	2,000	2,000
Economics	20,000	19,000	18,000	6,000	4,000	9,000	6,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	7,000	6,000	5,000	2,000	1,000	3,000	S	3,000
Black	3,000	3,000	3,000	S	1,000	1,000	S	*
Hispanic	4,000	3,000	3,000	500	S	1,000	S	1,000
White	18,000	18,000	17,000	5,000	4,000	8,000	6,000	5,000
Other	2,000	2,000	2,000	S	S	S	S	S
Political/related sciences	25,000	21,000	21,000	5,000	6,000	9,000	6,000	7,000
American Indian/Alaska Native	2,000	2,000	1,000	S	S	S	S	S
Asian	4,000	3,000	3,000	1,000	1,000	2,000	S	2,000
Black	6,000	5,000	5,000	1,000	2,000	2,000	1,000	1,000
Hispanic	4,000	4,000	4,000	1,000	1,000	2,000	S	1,000
White	23,000	19,000	19,000	5,000	5,000	9,000	6,000	6,000
Other	3,000	3,000	3,000	S	S	S	S	S
Psychology	31,000	25,000	22,000	10,000	5,000	13,000	9,000	11,000
American Indian/Alaska Native	2,000	1,000	1,000	S	S	S	S	S
Asian	5,000	5,000	5,000	1,000	S	2,000	S	2,000
Black	7,000	7,000	6,000	2,000	2,000	2,000	1,000	2,000
Hispanic	5,000	5,000	4,000	2,000	2,000	3,000	2,000	2,000
White	30,000	25,000	22,000	10,000	4,000	13,000	9,000	11,000
Other	3,000	3,000	3,000	1,000	S	2,000	1,000	S
Sociology/anthropology	24,000	20,000	19,000	8,000	5,000	13,000	6,000	11,000
American Indian/Alaska Native	2,000	1,000	1,000	S	S	S	S	S
Asian	4,000	3,000	3,000	1,000	500	2,000	S	2,000
Black	7,000	6,000	6,000	1,000	2,000	3,000	2,000	2,000
Hispanic	4,000	3,000	3,000	1,000	2,000	1,000	1,000	1,000
White	24,000	18,000	17,000	8,000	4,000	13,000	6,000	11,000
Other	3,000	2,000	2,000	1,000	S	S	S	S
Other social sciences	18,000	16,000	16,000	5,000	2,000	6,000	4,000	4,000
American Indian/Alaska Native	2,000	2,000	2,000	S	S	S	S	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Asian	3,000	2,000	2,000	1,000	S	1,000	S	1,000
Black	4,000	4,000	4,000	1,000	*	1,000	S	500
Hispanic	5,000	4,000	4,000	1,000	S	2,000	1,000	1,000
White	15,000	14,000	13,000	5,000	2,000	6,000	4,000	4,000
Other	2,000	2,000	2,000	S	S	S	S	S
Engineering	31,000	25,000	25,000	7,000	6,000	14,000	13,000	5,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	8,000	8,000	8,000	2,000	2,000	2,000	1,000	2,000
Black	5,000	4,000	4,000	1,000	1,000	1,000	1,000	1,000
Hispanic	6,000	6,000	5,000	1,000	1,000	3,000	2,000	1,000
White	28,000	22,000	21,000	6,000	5,000	13,000	13,000	5,000
Other	4,000	4,000	4,000	500	500	1,000	1,000	500
Aerospace/related engineering	7,000	7,000	6,000	1,000	1,000	2,000	2,000	*
American Indian/Alaska Native	500	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	*	S	S	S	S
White	7,000	6,000	6,000	1,000	1,000	2,000	2,000	S
Other	1,000	1,000	1,000	S	S	S	S	S
Chemical engineering	8,000	7,000	7,000	1,000	1,000	4,000	3,000	1,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	2,000	2,000	2,000	500	S	1,000	S	500
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	2,000	2,000	1,000	S	S	500	S	S
White	7,000	6,000	6,000	1,000	1,000	4,000	3,000	1,000
Other	1,000	1,000	1,000	S	S	S	S	S
Civil/architectural engineering	12,000	11,000	10,000	2,000	2,000	5,000	4,000	2,000
American Indian/Alaska Native	500	500	500	S	S	S	S	S
Asian	3,000	3,000	2,000	S	1,000	1,000	1,000	S
Black	2,000	2,000	2,000	S	S	S	S	S
Hispanic	3,000	3,000	3,000	500	S	1,000	1,000	S
White	10,000	9,000	9,000	2,000	2,000	4,000	4,000	2,000
Other	3,000	3,000	3,000	S	S	S	S	S
Electrical/computer engineering	14,000	11,000	11,000	3,000	3,000	7,000	7,000	3,000
American Indian/Alaska Native	500	S	S	S	S	S	S	S
Asian	5,000	5,000	5,000	1,000	1,000	1,000	1,000	1,000
Black	3,000	3,000	3,000	1,000	1,000	1,000	S	S
Hispanic	2,000	2,000	2,000	*	1,000	1,000	S	1,000
White	12,000	9,000	9,000	3,000	2,000	7,000	7,000	3,000

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other	3,000	2,000	2,000	S	S	1,000	S	S
Industrial engineering	10,000	8,000	8,000	2,000	2,000	5,000	5,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	2,000	S	500
White	9,000	7,000	7,000	2,000	2,000	5,000	5,000	2,000
Other	500	500	500	S	S	S	S	S
Mechanical engineering	15,000	13,000	12,000	4,000	3,000	7,000	6,000	1,000
American Indian/Alaska Native	500	500	500	S	S	S	S	S
Asian	4,000	4,000	4,000	1,000	1,000	1,000	1,000	S
Black	2,000	2,000	2,000	*	S	S	S	S
Hispanic	2,000	2,000	2,000	*	S	1,000	S	500
White	15,000	13,000	11,000	4,000	3,000	6,000	6,000	1,000
Other	1,000	1,000	1,000	S	S	S	S	S
Other engineering	11,000	10,000	10,000	3,000	2,000	5,000	5,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	3,000	3,000	3,000	S	500	1,000	S	1,000
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	1,000	S	1,000	S	1,000
White	10,000	9,000	9,000	2,000	2,000	5,000	5,000	2,000
Other	1,000	500	500	S	S	S	S	S
S&E-related fields	40,000	36,000	35,000	19,000	6,000	20,000	12,000	15,000
American Indian/Alaska Native	3,000	2,000	2,000	S	S	1,000	S	S
Asian	11,000	10,000	10,000	3,000	2,000	5,000	2,000	5,000
Black	9,000	8,000	8,000	2,000	1,000	3,000	2,000	1,000
Hispanic	8,000	8,000	8,000	2,000	1,000	2,000	1,000	2,000
White	37,000	33,000	32,000	19,000	5,000	19,000	11,000	14,000
Other	6,000	6,000	6,000	1,000	S	1,000	S	S
Health	34,000	29,000	27,000	18,000	4,000	18,000	10,000	15,000
American Indian/Alaska Native	2,000	2,000	2,000	S	S	S	S	S
Asian	9,000	8,000	8,000	3,000	1,000	5,000	2,000	4,000
Black	7,000	7,000	7,000	1,000	1,000	2,000	1,000	1,000
Hispanic	6,000	6,000	6,000	2,000	S	2,000	1,000	2,000
White	31,000	26,000	24,000	18,000	4,000	17,000	9,000	14,000
Other	6,000	6,000	6,000	1,000	S	S	S	S
Science/mathematics teacher education	14,000	13,000	11,000	5,000	2,000	6,000	5,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	3,000	3,000	3,000	S	S	S	S	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Black	3,000	2,000	2,000	S	S	2,000	2,000	S
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	13,000	12,000	11,000	5,000	2,000	5,000	5,000	3,000
Other	500	S	S	S	S	S	S	S
Technology/technical fields	14,000	13,000	13,000	3,000	3,000	5,000	4,000	4,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S
Asian	4,000	4,000	4,000	2,000	2,000	1,000	S	1,000
Black	3,000	3,000	3,000	S	S	S	S	S
Hispanic	3,000	3,000	3,000	S	S	S	S	S
White	13,000	11,000	11,000	3,000	3,000	5,000	4,000	3,000
Other	1,000	1,000	1,000	S	S	S	S	S
Other S&E-related fields	13,000	13,000	12,000	5,000	1,000	4,000	2,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	3,000	3,000	2,000	1,000	S	2,000	S	S
Black	2,000	2,000	2,000	S	S	S	S	S
Hispanic	3,000	3,000	3,000	S	S	S	S	S
White	12,000	12,000	11,000	5,000	1,000	4,000	2,000	3,000
Other	1,000	1,000	1,000	S	S	S	S	S
Non-S&E fields	29,000	29,000	27,000	9,000	2,000	4,000	2,000	3,000
American Indian/Alaska Native	3,000	3,000	3,000	S	S	S	S	S
Asian	5,000	5,000	5,000	1,000	S	S	S	S
Black	7,000	7,000	6,000	1,000	S	S	S	S
Hispanic	4,000	4,000	4,000	1,000	S	S	S	S
White	27,000	27,000	26,000	9,000	S	3,000	2,000	3,000
Other	3,000	3,000	3,000	1,000	S	S	S	S
Arts/humanities	15,000	15,000	14,000	5,000	S	2,000	S	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	1,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	15,000	15,000	14,000	5,000	S	2,000	S	2,000
Other	1,000	1,000	1,000	S	S	S	S	S
Education, except science/mathematics teacher education	11,000	11,000	11,000	3,000	S	2,000	S	S
American Indian/Alaska Native	2,000	2,000	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	2,000	2,000	2,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	11,000	11,000	11,000	3,000	S	2,000	S	S
Other	1,000	1,000	1,000	S	S	S	S	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Management/administration	19,000	18,000	17,000	6,000	S	2,000	2,000	2,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	4,000	4,000	4,000	1,000	S	S	S	S
Black	5,000	5,000	5,000	S	S	S	S	S
Hispanic	3,000	3,000	3,000	S	S	S	S	S
White	17,000	17,000	16,000	5,000	S	2,000	S	S
Other	2,000	2,000	2,000	S	S	S	S	S
Sales/marketing	5,000	5,000	5,000	2,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S
Black	1,000	1,000	S	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	5,000	5,000	5,000	2,000	S	S	S	S
Other	S	S	S	S	S	S	S	S
Social services/related	5,000	5,000	5,000	2,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	2,000	2,000	2,000	S	S	S	S	S
Hispanic	500	500	500	S	S	S	S	S
White	5,000	5,000	4,000	2,000	S	S	S	S
Other	S	S	S	S	S	S	S	S
Other non-S&E fields	11,000	11,000	10,000	4,000	S	1,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	S	S	S	S
Black	3,000	3,000	3,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	10,000	10,000	9,000	4,000	S	S	S	S
Other	1,000	1,000	1,000	S	S	S	S	S
Master's degrees	50,000	47,000	45,000	17,000	10,000	22,000	17,000	14,000
American Indian/Alaska Native	3,000	3,000	3,000	1,000	S	1,000	1,000	S
Asian	13,000	11,000	11,000	4,000	3,000	5,000	2,000	4,000
Black	12,000	11,000	11,000	3,000	2,000	5,000	4,000	3,000
Hispanic	9,000	9,000	9,000	2,000	1,000	4,000	2,000	3,000
White	42,000	39,000	38,000	16,000	9,000	21,000	17,000	13,000
Other	7,000	6,000	6,000	2,000	2,000	2,000	1,000	1,000
S&E fields	33,000	28,000	26,000	9,000	5,000	14,000	12,000	8,000
American Indian/Alaska Native	2,000	1,000	1,000	1,000	S	S	S	S
Asian	9,000	9,000	8,000	4,000	2,000	3,000	2,000	3,000
Black	6,000	6,000	5,000	2,000	1,000	3,000	2,000	2,000

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Hispanic	6,000	6,000	5,000	2,000	500	2,000	1,000	2,000
White	29,000	24,000	22,000	8,000	4,000	14,000	12,000	7,000
Other	3,000	3,000	3,000	500	1,000	1,000	1,000	1,000
Sciences	30,000	25,000	23,000	9,000	4,000	13,000	11,000	7,000
American Indian/Alaska Native	2,000	1,000	1,000	S	S	S	S	S
Asian	9,000	8,000	7,000	3,000	2,000	3,000	1,000	3,000
Black	6,000	5,000	5,000	2,000	1,000	3,000	2,000	2,000
Hispanic	5,000	4,000	4,000	2,000	500	2,000	1,000	1,000
White	26,000	21,000	20,000	8,000	4,000	13,000	10,000	7,000
Other	3,000	3,000	3,000	500	1,000	1,000	1,000	1,000
Biological/agricultural/environmental life sciences	11,000	9,000	9,000	3,000	1,000	6,000	5,000	3,000
American Indian/Alaska Native	500	500	500	S	S	S	S	S
Asian	3,000	2,000	2,000	1,000	S	2,000	500	2,000
Black	1,000	1,000	1,000	500	S	500	S	*
Hispanic	2,000	2,000	2,000	*	S	1,000	S	1,000
White	9,000	8,000	8,000	3,000	1,000	5,000	5,000	2,000
Other	1,000	1,000	1,000	S	S	S	S	S
Agricultural/food sciences	4,000	4,000	4,000	1,000	S	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	4,000	3,000	3,000	1,000	S	1,000	1,000	S
Other	1,000	1,000	1,000	S	S	S	S	S
Biological sciences	9,000	7,000	7,000	2,000	1,000	4,000	3,000	3,000
American Indian/Alaska Native	500	500	500	S	S	S	S	S
Asian	3,000	2,000	2,000	1,000	S	2,000	500	2,000
Black	1,000	1,000	1,000	S	S	500	S	*
Hispanic	2,000	1,000	1,000	*	S	1,000	S	S
White	8,000	7,000	7,000	2,000	1,000	4,000	3,000	2,000
Other	1,000	500	500	S	S	S	S	S
Environmental life sciences	5,000	4,000	4,000	1,000	S	4,000	4,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	500	500	500	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	5,000	4,000	3,000	1,000	S	4,000	3,000	1,000
Other	S	S	S	S	S	S	S	S
Computer/mathematical sciences	12,000	11,000	10,000	4,000	3,000	4,000	3,000	2,000

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	6,000	6,000	5,000	3,000	2,000	1,000	1,000	1,000
Black	2,000	2,000	2,000	1,000	1,000	*	S	S
Hispanic	2,000	2,000	2,000	*	S	500	S	*
White	10,000	9,000	9,000	3,000	2,000	4,000	3,000	2,000
Other	1,000	1,000	1,000	S	S	S	S	S
Computer/information sciences	11,000	10,000	9,000	4,000	2,000	3,000	2,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	6,000	6,000	5,000	2,000	1,000	1,000	500	1,000
Black	2,000	2,000	2,000	S	1,000	S	S	S
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	9,000	8,000	7,000	3,000	1,000	2,000	2,000	1,000
Other	1,000	1,000	1,000	S	S	S	S	S
Mathematical sciences	7,000	5,000	5,000	2,000	2,000	3,000	3,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	1,000	1,000	1,000	S	1,000
Black	1,000	1,000	1,000	500	S	S	S	S
Hispanic	1,000	500	1,000	*	S	500	S	*
White	6,000	5,000	5,000	2,000	2,000	3,000	3,000	1,000
Other	1,000	500	500	S	S	S	S	S
Physical/related sciences	7,000	7,000	6,000	3,000	1,000	3,000	3,000	2,000
American Indian/Alaska Native	1,000	*	*	S	S	S	S	S
Asian	3,000	3,000	2,000	2,000	1,000	1,000	*	1,000
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	*	S	S	S	S
White	7,000	6,000	5,000	2,000	1,000	3,000	3,000	1,000
Other	500	500	500	S	S	S	S	S
Chemistry, except biochemistry	5,000	4,000	4,000	2,000	500	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	1,000	500	1,000	*	S
Black	1,000	500	500	S	S	S	S	S
Hispanic	500	500	500	S	S	S	S	S
White	4,000	3,000	3,000	1,000	S	2,000	2,000	1,000
Other	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean sciences	5,000	4,000	4,000	2,000	500	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	500	500	500	S	S	S	S	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
White	4,000	4,000	4,000	2,000	500	2,000	2,000	1,000
Other	500	500	500	S	S	S	S	S
Physics/astronomy	4,000	3,000	3,000	1,000	1,000	2,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	500	1,000	S	1,000
Black	500	500	500	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	3,000	3,000	2,000	1,000	1,000	1,000	1,000	S
Other	*	S	S	S	S	S	S	S
Other physical sciences	2,000	1,000	1,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	2,000	1,000	1,000	S	S	S	S	S
Other	S	S	S	S	S	S	S	S
Social/related sciences	22,000	19,000	18,000	7,000	3,000	10,000	7,000	7,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	4,000	4,000	3,000	2,000	500	2,000	1,000	1,000
Black	5,000	5,000	4,000	2,000	500	3,000	2,000	2,000
Hispanic	4,000	4,000	3,000	2,000	S	1,000	1,000	1,000
White	20,000	17,000	17,000	7,000	3,000	10,000	7,000	6,000
Other	2,000	2,000	2,000	500	S	S	S	S
Economics	7,000	6,000	6,000	2,000	500	3,000	3,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	500	S	1,000	S	1,000
Black	2,000	500	500	S	S	S	S	S
Hispanic	1,000	1,000	1,000	*	S	S	S	S
White	7,000	6,000	5,000	2,000	S	3,000	3,000	1,000
Other	*	*	S	S	S	S	S	S
Political/related sciences	9,000	8,000	7,000	2,000	1,000	3,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	S	1,000	S	500
Black	2,000	2,000	2,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	8,000	7,000	7,000	2,000	1,000	3,000	2,000	1,000
Other	1,000	500	500	S	S	S	S	S
Psychology	16,000	14,000	14,000	6,000	2,000	8,000	5,000	6,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Asian	2,000	2,000	1,000	1,000	S	1,000	S	1,000
Black	4,000	3,000	3,000	1,000	S	2,000	1,000	1,000
Hispanic	3,000	3,000	2,000	1,000	S	1,000	S	1,000
White	15,000	13,000	13,000	6,000	2,000	8,000	5,000	5,000
Other	2,000	2,000	2,000	S	S	S	S	S
Sociology/anthropology	6,000	5,000	4,000	3,000	1,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	1,000	S	500	S	S
Black	1,000	1,000	1,000	S	S	1,000	S	S
Hispanic	1,000	1,000	1,000	S	S	*	S	*
White	6,000	5,000	4,000	3,000	1,000	2,000	2,000	1,000
Other	1,000	1,000	1,000	S	S	S	S	S
Other social sciences	7,000	6,000	5,000	2,000	1,000	3,000	2,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	1,000	S	1,000
Black	2,000	2,000	2,000	1,000	S	1,000	S	S
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	6,000	6,000	5,000	2,000	1,000	3,000	2,000	1,000
Other	1,000	500	500	S	S	S	S	S
Engineering	13,000	12,000	11,000	4,000	2,000	6,000	5,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	5,000	5,000	5,000	1,000	1,000	2,000	1,000	1,000
Black	2,000	1,000	1,000	*	500	1,000	S	500
Hispanic	3,000	3,000	3,000	*	*	1,000	1,000	1,000
White	12,000	10,000	10,000	3,000	2,000	6,000	5,000	3,000
Other	1,000	1,000	1,000	S	S	S	S	S
Aerospace/related engineering	2,000	2,000	2,000	500	S	1,000	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	*	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	2,000	1,000	1,000	*	S	1,000	1,000	S
Other	500	500	500	S	S	S	S	S
Chemical engineering	4,000	3,000	3,000	1,000	500	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	*	S	500	S	*
Black	500	500	500	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	3,000	2,000	2,000	S	S	1,000	1,000	1,000

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other	S	S	S	S	S	S	S	S
Civil/architectural engineering	5,000	5,000	4,000	2,000	1,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	1,000	1,000	500	1,000	1,000	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	*	S	S
White	4,000	4,000	3,000	2,000	1,000	2,000	2,000	S
Other	1,000	1,000	1,000	S	S	S	S	S
Electrical/computer engineering	8,000	6,000	6,000	2,000	1,000	4,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	4,000	4,000	4,000	1,000	1,000	1,000	500	1,000
Black	1,000	1,000	1,000	S	*	500	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	6,000	5,000	5,000	2,000	1,000	4,000	3,000	2,000
Other	1,000	1,000	1,000	S	S	S	S	S
Industrial engineering	3,000	2,000	2,000	500	1,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	500	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	3,000	2,000	2,000	500	1,000	2,000	2,000	S
Other	S	S	S	S	S	S	S	S
Mechanical engineering	5,000	5,000	5,000	1,000	1,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	500	1,000	1,000	1,000	S
Black	500	500	500	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	5,000	5,000	4,000	1,000	500	2,000	2,000	1,000
Other	1,000	1,000	500	S	S	S	S	S
Other engineering	6,000	5,000	5,000	2,000	1,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	500	500	1,000	500	1,000
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	6,000	5,000	5,000	1,000	1,000	2,000	2,000	1,000
Other	500	500	500	S	S	S	S	S
S&E-related fields	22,000	20,000	20,000	10,000	4,000	11,000	7,000	7,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	5,000	4,000	4,000	1,000	1,000	1,000	1,000	1,000

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Black	5,000	4,000	4,000	1,000	1,000	3,000	1,000	2,000
Hispanic	4,000	3,000	3,000	1,000	S	1,000	1,000	1,000
White	20,000	18,000	18,000	9,000	4,000	10,000	7,000	6,000
Other	2,000	2,000	2,000	1,000	S	S	S	S
Health	17,000	16,000	16,000	8,000	4,000	8,000	5,000	6,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	4,000	4,000	3,000	1,000	1,000	1,000	1,000	1,000
Black	4,000	4,000	4,000	1,000	S	2,000	1,000	2,000
Hispanic	3,000	3,000	3,000	1,000	S	1,000	S	1,000
White	16,000	15,000	14,000	8,000	4,000	7,000	5,000	5,000
Other	2,000	2,000	2,000	1,000	S	S	S	S
Science/mathematics teacher education	9,000	8,000	7,000	4,000	1,000	5,000	4,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	2,000	2,000	2,000	S	S	1,000	1,000	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	9,000	8,000	7,000	4,000	1,000	5,000	4,000	2,000
Other	1,000	S	S	S	S	S	S	S
Technology/technical fields	4,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	500	1,000	S	500
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	4,000	3,000	3,000	1,000	S	2,000	1,000	S
Other	1,000	S	S	S	S	S	S	S
Other S&E-related fields	7,000	7,000	7,000	2,000	1,000	2,000	2,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	7,000	7,000	7,000	2,000	S	2,000	2,000	S
Other	1,000	1,000	S	S	S	S	S	S
Non-S&E fields	40,000	34,000	34,000	11,000	7,000	15,000	12,000	10,000
American Indian/Alaska Native	3,000	3,000	3,000	S	S	S	S	S
Asian	8,000	7,000	7,000	2,000	2,000	3,000	1,000	3,000
Black	10,000	10,000	10,000	2,000	2,000	3,000	3,000	1,000
Hispanic	7,000	6,000	6,000	1,000	1,000	2,000	1,000	2,000
White	36,000	30,000	30,000	11,000	5,000	14,000	12,000	9,000
Other	5,000	5,000	5,000	1,000	S	1,000	1,000	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Arts/humanities	9,000	9,000	7,000	4,000	1,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	3,000	2,000	2,000	S	S	S	S	S
Black	1,000	1,000	500	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	9,000	8,000	7,000	4,000	1,000	2,000	2,000	S
Other	500	500	500	S	S	S	S	S
Education, except science/mathematics teacher education	24,000	21,000	21,000	5,000	2,000	11,000	8,000	7,000
American Indian/Alaska Native	1,000	1,000	1,000	S	S	S	S	S
Asian	2,000	2,000	2,000	1,000	S	1,000	S	S
Black	6,000	5,000	5,000	1,000	1,000	3,000	3,000	S
Hispanic	4,000	3,000	3,000	1,000	S	1,000	1,000	1,000
White	23,000	20,000	20,000	5,000	2,000	10,000	8,000	6,000
Other	2,000	2,000	2,000	S	S	S	S	S
Management/administration	23,000	20,000	20,000	5,000	5,000	8,000	6,000	6,000
American Indian/Alaska Native	2,000	2,000	2,000	S	S	S	S	S
Asian	7,000	6,000	6,000	1,000	2,000	2,000	500	2,000
Black	6,000	6,000	6,000	1,000	1,000	1,000	1,000	S
Hispanic	5,000	5,000	4,000	1,000	1,000	1,000	S	S
White	22,000	19,000	19,000	5,000	4,000	8,000	6,000	6,000
Other	5,000	5,000	5,000	S	S	1,000	500	S
Sales/marketing	9,000	8,000	8,000	2,000	1,000	2,000	1,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	8,000	8,000	7,000	2,000	1,000	2,000	1,000	2,000
Other	S	S	S	S	S	S	S	S
Social services/related	11,000	11,000	10,000	5,000	2,000	4,000	3,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	S	1,000	S	1,000
Black	4,000	3,000	3,000	S	S	S	S	S
Hispanic	2,000	2,000	2,000	S	S	1,000	S	S
White	11,000	10,000	9,000	5,000	2,000	4,000	3,000	3,000
Other	2,000	1,000	1,000	S	S	S	S	S
Other non-S&E fields	13,000	12,000	12,000	3,000	3,000	5,000	3,000	3,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S
Asian	2,000	2,000	2,000	S	S	1,000	S	S
Black	4,000	3,000	3,000	1,000	S	S	S	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Hispanic	2,000	2,000	2,000	S	S	S	S	S
White	12,000	10,000	10,000	3,000	2,000	4,000	3,000	3,000
Other	2,000	1,000	1,000	S	S	S	S	S
Doctorate degrees	11,000	11,000	10,000	3,000	2,000	5,000	4,000	2,000
American Indian/Alaska Native	500	500	500	*	S	*	S	*
Asian	3,000	3,000	3,000	1,000	1,000	1,000	1,000	1,000
Black	2,000	2,000	2,000	500	1,000	1,000	1,000	*
Hispanic	2,000	2,000	2,000	500	500	1,000	500	1,000
White	10,000	10,000	10,000	2,000	1,000	4,000	4,000	2,000
Other	1,000	1,000	1,000	500	*	500	500	*
S&E fields	5,000	5,000	5,000	2,000	1,000	3,000	2,000	1,000
American Indian/Alaska Native	500	500	500	*	S	*	S	*
Asian	3,000	3,000	2,000	1,000	1,000	1,000	500	1,000
Black	2,000	2,000	2,000	500	1,000	500	500	*
Hispanic	1,000	1,000	1,000	500	500	500	500	500
White	4,000	4,000	4,000	1,000	1,000	2,000	2,000	1,000
Other	1,000	1,000	1,000	500	*	500	*	*
Sciences	5,000	5,000	5,000	2,000	1,000	2,000	2,000	1,000
American Indian/Alaska Native	500	500	500	*	S	*	S	*
Asian	3,000	2,000	2,000	1,000	1,000	1,000	500	1,000
Black	2,000	2,000	2,000	500	1,000	500	500	*
Hispanic	1,000	1,000	1,000	500	*	500	500	500
White	4,000	4,000	4,000	1,000	1,000	2,000	2,000	1,000
Other	1,000	1,000	1,000	500	*	500	*	*
Biological/agricultural/environmental life sciences	4,000	3,000	3,000	1,000	1,000	2,000	2,000	500
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	2,000	2,000	2,000	500	1,000	500	500	500
Black	1,000	1,000	1,000	*	1,000	500	500	*
Hispanic	1,000	1,000	1,000	*	*	*	*	*
White	3,000	3,000	3,000	1,000	500	2,000	2,000	500
Other	500	500	500	*	S	*	S	*
Agricultural/food sciences	1,000	1,000	1,000	500	*	500	500	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	500	500	500	*	S	*	S	S
Black	500	500	500	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	S	*	*	S
White	1,000	500	500	500	*	500	500	*
Other	*	*	*	S	S	S	S	S
Biological sciences	4,000	3,000	3,000	1,000	1,000	2,000	2,000	500

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	2,000	2,000	2,000	500	1,000	500	500	500
Black	1,000	1,000	1,000	*	1,000	500	500	*
Hispanic	1,000	1,000	1,000	*	*	*	*	*
White	3,000	3,000	3,000	1,000	500	2,000	2,000	500
Other	500	500	500	*	S	*	S	*
Environmental life sciences	500	500	500	*	S	500	500	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	500	*	*	S	S	S	S	S
Black	*	*	*	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	500	500	500	*	S	500	500	S
Other	S	S	S	S	S	S	S	S
Computer/mathematical sciences	2,000	2,000	2,000	500	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	*	500	*	*
Black	2,000	2,000	2,000	*	S	*	*	S
Hispanic	500	500	500	*	S	S	S	S
White	1,000	1,000	1,000	500	500	500	500	500
Other	*	*	*	S	S	S	S	S
Computer/information sciences	1,000	1,000	1,000	500	*	*	*	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	500	500	500	*	S	*	S	*
Black	500	500	*	*	S	S	S	S
Hispanic	500	500	500	S	S	S	S	S
White	1,000	1,000	1,000	500	*	*	S	*
Other	*	*	*	S	S	S	S	S
Mathematical sciences	2,000	2,000	2,000	500	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	500	500	500	*	S	*	*	S
Black	2,000	2,000	2,000	S	S	S	S	S
Hispanic	500	500	500	*	S	S	S	S
White	1,000	1,000	1,000	500	500	500	500	500
Other	*	*	*	S	S	S	S	S
Physical/related sciences	2,000	2,000	2,000	500	500	1,000	1,000	1,000
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	1,000	1,000	1,000	500	500	500	500	500
Black	500	500	500	*	*	S	S	S
Hispanic	500	500	500	*	*	*	*	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
White	2,000	2,000	2,000	500	500	1,000	1,000	500
Other	500	500	500	S	S	S	S	S
Chemistry, except biochemistry	2,000	2,000	2,000	500	500	1,000	1,000	500
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	1,000	1,000	1,000	*	500	500	500	*
Black	500	500	500	S	S	S	S	S
Hispanic	500	500	500	S	S	*	S	S
White	1,000	1,000	1,000	500	500	1,000	1,000	500
Other	500	500	500	S	S	S	S	S
Earth/atmospheric/ocean sciences	1,000	1,000	1,000	500	*	500	500	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	500	500	500	*	S	S	S	S
Black	*	*	*	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	1,000	1,000	1,000	500	*	500	500	*
Other	*	*	*	S	S	S	S	S
Physics/astronomy	1,000	1,000	1,000	500	500	1,000	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	500	1,000	*	*	500	*	500
Black	500	*	*	S	S	S	S	S
Hispanic	500	500	500	S	S	S	S	S
White	1,000	1,000	1,000	500	500	500	500	*
Other	*	*	*	S	S	S	S	S
Other physical sciences	1,000	1,000	1,000	*	S	*	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	*	*	*	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	1,000	1,000	1,000	S	S	S	S	S
Other	S	S	S	S	S	S	S	S
Social/related sciences	2,000	2,000	2,000	1,000	500	1,000	1,000	1,000
American Indian/Alaska Native	500	*	*	S	S	S	S	S
Asian	1,000	1,000	500	1,000	*	1,000	500	1,000
Black	500	500	500	500	*	500	500	*
Hispanic	500	500	500	500	*	500	*	500
White	2,000	2,000	2,000	1,000	500	1,000	1,000	500
Other	500	500	500	*	*	*	*	*
Economics	1,000	1,000	1,000	500	*	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Asian	500	500	500	*	*	500	*	S
Black	500	500	500	S	S	S	S	S
Hispanic	500	500	500	S	S	*	S	S
White	500	500	500	500	*	500	500	*
Other	*	*	*	S	S	S	S	S
Political/related sciences	1,000	1,000	1,000	500	*	1,000	500	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	500	500	S	S	1,000	*	S
Black	500	500	500	*	S	*	*	S
Hispanic	500	500	500	S	S	S	S	S
White	1,000	1,000	1,000	500	*	500	500	*
Other	*	*	*	S	S	S	S	S
Psychology	1,000	1,000	1,000	1,000	500	1,000	500	500
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	500	500	500	500	S	*	S	*
Black	500	500	500	*	S	*	S	S
Hispanic	500	500	500	500	S	500	S	500
White	1,000	1,000	1,000	1,000	500	500	500	500
Other	500	500	500	*	S	*	S	S
Sociology/anthropology	1,000	1,000	1,000	500	500	500	500	500
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	500	500	500	*	S	*	S	*
Black	500	500	500	*	S	*	*	S
Hispanic	500	500	500	*	S	*	S	S
White	1,000	1,000	1,000	500	500	500	500	*
Other	*	*	*	S	S	S	S	S
Other social sciences	1,000	1,000	1,000	1,000	*	500	500	500
American Indian/Alaska Native	*	*	*	S	S	S	S	S
Asian	1,000	1,000	500	1,000	S	*	S	S
Black	500	500	500	*	S	*	*	S
Hispanic	500	500	500	*	S	S	S	S
White	1,000	1,000	1,000	500	*	500	500	500
Other	*	*	*	S	S	S	S	S
Engineering	2,000	2,000	2,000	1,000	1,000	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	500	500	500	500
Black	500	500	500	*	*	S	S	S
Hispanic	500	500	500	*	S	*	S	*
White	1,000	1,000	1,000	1,000	500	1,000	500	500

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other	500	500	500	S	S	S	S	S
Aerospace/related engineering	1,000	1,000	1,000	500	S	500	500	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	*	*	*	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	500	500	500	*	S	500	500	S
Other	S	S	S	S	S	S	S	S
Chemical engineering	1,000	1,000	1,000	500	500	500	500	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	500	*	*	500	*	S
Black	*	*	*	S	S	S	S	S
Hispanic	500	500	500	S	S	S	S	S
White	500	500	500	500	*	500	500	*
Other	*	*	*	S	S	S	S	S
Civil/architectural engineering	1,000	1,000	1,000	500	*	500	500	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	500	500	500	S	S	*	*	S
Black	*	*	*	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	500	500	500	*	S	500	500	S
Other	*	*	*	S	S	S	S	S
Electrical/computer engineering	1,000	1,000	1,000	500	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	*	500	*	*	*
Black	500	500	500	S	S	S	S	S
Hispanic	500	500	500	S	S	S	S	S
White	1,000	1,000	1,000	500	500	500	500	*
Other	*	*	*	S	S	S	S	S
Industrial engineering	500	500	500	S	S	*	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	500	500	500	S	S	S	S	S
Black	*	*	*	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	500	500	500	S	S	*	S	S
Other	S	S	S	S	S	S	S	S
Mechanical engineering	1,000	1,000	1,000	500	500	500	500	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	500	500	500	S	*	*	*	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Black	*	*	*	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S
White	500	500	500	500	*	500	500	S
Other	*	*	*	S	S	S	S	S
Other engineering	1,000	1,000	1,000	500	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	*	*	500	500	S
Black	500	*	*	S	S	S	S	S
Hispanic	500	500	500	S	S	S	S	S
White	1,000	1,000	1,000	500	500	500	500	500
Other	*	*	*	S	S	S	S	S
S&E-related fields	5,000	4,000	4,000	1,000	500	2,000	2,000	1,000
American Indian/Alaska Native	*	*	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	S	500	500	S
Black	1,000	1,000	1,000	*	S	*	*	S
Hispanic	1,000	1,000	1,000	500	S	*	*	S
White	4,000	4,000	4,000	500	*	2,000	2,000	1,000
Other	500	*	*	S	S	S	S	S
Health	3,000	3,000	3,000	1,000	500	1,000	1,000	500
American Indian/Alaska Native	*	*	S	S	S	S	S	S
Asian	1,000	1,000	1,000	*	S	500	500	S
Black	1,000	1,000	1,000	*	S	*	S	S
Hispanic	1,000	1,000	1,000	500	S	*	*	S
White	2,000	2,000	2,000	500	*	1,000	1,000	500
Other	*	*	*	S	S	S	S	S
Science/mathematics teacher education	3,000	2,000	2,000	500	S	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	3,000	2,000	2,000	S	S	1,000	1,000	S
Other	S	S	S	S	S	S	S	S
Technology/technical fields	1,000	1,000	1,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	500	500	500	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	1,000	1,000	1,000	S	S	S	S	S
Other	S	S	S	S	S	S	S	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Other S&E-related fields	3,000	3,000	3,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	3,000	3,000	3,000	S	S	S	S	S
Other	S	S	S	S	S	S	S	S
Non-S&E fields	8,000	8,000	8,000	2,000	1,000	3,000	3,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	1,000	1,000	S
Hispanic	1,000	1,000	1,000	S	S	1,000	S	S
White	8,000	7,000	7,000	2,000	1,000	3,000	3,000	1,000
Other	1,000	500	500	S	S	S	S	S
Arts/humanities	2,000	2,000	2,000	1,000	S	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	500	500	500	S	S	S	S	S
White	2,000	2,000	2,000	1,000	S	1,000	1,000	S
Other	S	S	S	S	S	S	S	S
Education, except science/mathematics teacher education	7,000	6,000	6,000	2,000	1,000	2,000	2,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	500	500	500	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	500	500	S
Hispanic	1,000	1,000	1,000	S	S	S	S	S
White	7,000	6,000	6,000	1,000	S	2,000	2,000	S
Other	1,000	500	500	S	S	S	S	S
Management/administration	3,000	2,000	2,000	1,000	S	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	2,000	2,000	2,000	S	S	1,000	S	S
Other	S	S	S	S	S	S	S	S
Sales/marketing	500	500	500	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	500	500	500	S	S	S	S	S
Black	S	S	S	S	S	S	S	S

TABLE A-9. Standard errors for U.S. scientists and engineers, by level and field of highest degree, race/ethnicity, and employment status: 2003

Level and field of highest degree and race/ethnicity[a]	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Hispanic	S	S	S	S	S	S	S	S
White	500	500	500	S	S	S	S	S
Other	S	S	S	S	S	S	S	S
Social services/related	3,000	3,000	3,000	1,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	500	500	500	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S
White	3,000	3,000	3,000	1,000	S	S	S	S
Other	S	S	S	S	S	S	S	S
Other non-S&E fields	4,000	3,000	3,000	1,000	S	2,000	2,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S
White	3,000	3,000	3,000	1,000	S	2,000	S	S
Other	S	S	S	S	S	S	S	S

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = Science and engineering.

[a] "Other" includes Native Hawaiian/Other Pacific Islander and non-Hispanic respondents reporting 2 or more races.

[b] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a Science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Standard errors of less than 500 are rounded up to 500 and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-10. Standard errors for U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
All degree levels and fields[a]	84,000	82,000	76,000	33,000	19,000	44,000	30,000	30,000
<30	31,000	30,000	28,000	10,000	6,000	11,000	S	11,000
30–39	47,000	45,000	43,000	17,000	10,000	18,000	2,000	18,000
40–49	51,000	49,000	48,000	16,000	9,000	17,000	5,000	16,000
50–59	48,000	47,000	44,000	17,000	9,000	18,000	11,000	13,000
60+	38,000	25,000	20,000	15,000	7,000	29,000	28,000	8,000
S&E fields	73,000	67,000	65,000	23,000	14,000	35,000	25,000	23,000
<30	24,000	23,000	22,000	7,000	5,000	9,000	S	9,000
30–39	39,000	38,000	36,000	12,000	8,000	16,000	1,000	16,000
40–49	40,000	37,000	35,000	12,000	7,000	12,000	5,000	12,000
50–59	36,000	35,000	34,000	12,000	7,000	13,000	9,000	10,000
60+	30,000	18,000	16,000	10,000	6,000	24,000	23,000	7,000
Sciences	69,000	64,000	60,000	22,000	13,000	32,000	22,000	23,000
<30	22,000	21,000	20,000	7,000	5,000	10,000	S	10,000
30–39	36,000	36,000	34,000	12,000	7,000	16,000	1,000	16,000
40–49	37,000	34,000	32,000	12,000	6,000	12,000	5,000	11,000
50–59	36,000	34,000	32,000	11,000	6,000	13,000	9,000	10,000
60+	27,000	16,000	14,000	9,000	5,000	21,000	20,000	6,000
Biological/agricultural/environmental life sciences	31,000	27,000	27,000	9,000	5,000	14,000	10,000	10,000
<30	12,000	12,000	12,000	3,000	2,000	5,000	S	5,000
30–39	17,000	16,000	16,000	4,000	3,000	6,000	S	6,000
40–49	17,000	16,000	15,000	5,000	3,000	5,000	1,000	5,000
50–59	14,000	13,000	13,000	3,000	3,000	4,000	3,000	3,000
60+	11,000	6,000	5,000	3,000	1,000	9,000	9,000	2,000
Computer/mathematical sciences	26,000	24,000	21,000	10,000	5,000	11,000	7,000	8,000
<30	9,000	8,000	8,000	3,000	1,000	3,000	S	3,000
30–39	16,000	15,000	14,000	6,000	3,000	4,000	S	4,000
40–49	15,000	14,000	14,000	4,000	3,000	4,000	1,000	4,000
50–59	10,000	9,000	9,000	4,000	2,000	5,000	3,000	5,000
60+	9,000	6,000	5,000	3,000	1,000	7,000	6,000	2,000
Physical/related sciences	18,000	16,000	15,000	4,000	3,000	9,000	7,000	5,000
<30	6,000	6,000	6,000	1,000	500	1,000	S	1,000
30–39	8,000	7,000	7,000	1,000	2,000	4,000	S	4,000
40–49	10,000	9,000	9,000	3,000	1,000	3,000	S	3,000
50–59	9,000	8,000	8,000	2,000	1,000	2,000	2,000	1,000
60+	9,000	5,000	4,000	3,000	2,000	7,000	7,000	2,000
Social/related sciences	56,000	50,000	49,000	18,000	10,000	24,000	16,000	20,000
<30	17,000	16,000	15,000	5,000	4,000	7,000	S	7,000
30–39	33,000	31,000	28,000	10,000	6,000	13,000	S	13,000

TABLE A-10. Standard errors for U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
40–49	27,000	25,000	24,000	10,000	4,000	10,000	4,000	10,000
50–59	30,000	27,000	26,000	9,000	5,000	11,000	7,000	8,000
60+	20,000	12,000	11,000	7,000	4,000	14,000	13,000	5,000
Engineering	33,000	28,000	27,000	8,000	6,000	14,000	13,000	6,000
<30	7,000	6,000	7,000	2,000	2,000	2,000	S	2,000
30–39	16,000	16,000	15,000	3,000	2,000	3,000	S	3,000
40–49	15,000	14,000	14,000	3,000	4,000	4,000	1,000	4,000
50–59	13,000	13,000	13,000	3,000	3,000	3,000	3,000	2,000
60+	16,000	9,000	8,000	4,000	3,000	13,000	13,000	2,000
S&E-related fields	42,000	39,000	37,000	21,000	7,000	24,000	15,000	17,000
<30	17,000	16,000	15,000	5,000	2,000	5,000	S	5,000
30–39	24,000	23,000	21,000	12,000	4,000	9,000	S	9,000
40–49	25,000	23,000	22,000	11,000	4,000	12,000	2,000	12,000
50–59	23,000	22,000	20,000	9,000	3,000	9,000	5,000	8,000
60+	16,000	13,000	10,000	7,000	3,000	14,000	14,000	5,000
Non-S&E fields	52,000	45,000	43,000	15,000	8,000	17,000	13,000	10,000
<30	14,000	14,000	13,000	4,000	2,000	3,000	S	3,000
30–39	25,000	25,000	23,000	8,000	4,000	7,000	S	7,000
40–49	28,000	28,000	27,000	8,000	4,000	6,000	2,000	6,000
50–59	24,000	24,000	23,000	8,000	4,000	7,000	6,000	5,000
60+	18,000	14,000	12,000	8,000	2,000	12,000	12,000	2,000
Bachelor's degrees	73,000	69,000	66,000	29,000	15,000	38,000	26,000	27,000
<30	28,000	27,000	25,000	9,000	5,000	10,000	S	10,000
30–39	41,000	40,000	38,000	15,000	8,000	17,000	2,000	17,000
40–49	43,000	41,000	41,000	13,000	7,000	15,000	5,000	15,000
50–59	38,000	36,000	34,000	13,000	6,000	15,000	9,000	12,000
60+	32,000	19,000	16,000	10,000	6,000	25,000	24,000	7,000
S&E fields	66,000	60,000	58,000	22,000	14,000	31,000	23,000	22,000
<30	24,000	23,000	22,000	6,000	5,000	9,000	S	9,000
30–39	37,000	37,000	34,000	11,000	7,000	15,000	S	15,000
40–49	37,000	34,000	33,000	11,000	7,000	12,000	5,000	11,000
50–59	32,000	30,000	29,000	10,000	6,000	13,000	8,000	10,000
60+	27,000	16,000	14,000	8,000	6,000	21,000	20,000	6,000
Sciences	64,000	59,000	56,000	21,000	12,000	30,000	20,000	22,000
<30	23,000	21,000	20,000	6,000	5,000	9,000	S	9,000
30–39	34,000	34,000	31,000	11,000	7,000	15,000	S	15,000
40–49	34,000	31,000	29,000	11,000	6,000	11,000	5,000	11,000
50–59	32,000	30,000	29,000	10,000	5,000	12,000	8,000	10,000
60+	24,000	14,000	13,000	7,000	5,000	18,000	17,000	6,000

TABLE A-10. Standard errors for U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
Biological/agricultural/environmental life sciences	29,000	26,000	25,000	8,000	5,000	13,000	9,000	9,000
<30	12,000	11,000	11,000	3,000	2,000	5,000	S	5,000
30–39	17,000	16,000	15,000	4,000	3,000	6,000	S	6,000
40–49	16,000	15,000	14,000	5,000	2,000	4,000	S	4,000
50–59	13,000	12,000	12,000	3,000	3,000	3,000	2,000	3,000
60+	10,000	5,000	5,000	3,000	1,000	8,000	8,000	2,000
Computer/mathematical sciences	24,000	21,000	20,000	9,000	4,000	11,000	7,000	8,000
<30	8,000	7,000	7,000	3,000	1,000	3,000	S	3,000
30–39	14,000	13,000	12,000	5,000	2,000	4,000	S	4,000
40–49	14,000	13,000	12,000	3,000	3,000	4,000	S	4,000
50–59	9,000	7,000	7,000	3,000	2,000	5,000	3,000	4,000
60+	8,000	5,000	5,000	3,000	1,000	6,000	6,000	1,000
Physical/related sciences	16,000	14,000	13,000	4,000	3,000	8,000	7,000	5,000
<30	6,000	6,000	6,000	1,000	500	1,000	S	1,000
30–39	8,000	7,000	7,000	1,000	2,000	4,000	S	4,000
40–49	9,000	8,000	8,000	2,000	1,000	3,000	S	3,000
50–59	8,000	8,000	7,000	2,000	1,000	2,000	2,000	1,000
60+	8,000	4,000	4,000	2,000	2,000	7,000	7,000	2,000
Social/related sciences	52,000	45,000	43,000	16,000	10,000	23,000	14,000	19,000
<30	17,000	16,000	15,000	5,000	4,000	7,000	S	7,000
30–39	31,000	28,000	26,000	9,000	6,000	13,000	S	13,000
40–49	25,000	23,000	22,000	10,000	4,000	9,000	4,000	9,000
50–59	28,000	24,000	23,000	8,000	4,000	11,000	7,000	8,000
60+	17,000	10,000	9,000	5,000	4,000	13,000	12,000	5,000
Engineering	31,000	25,000	25,000	7,000	6,000	14,000	13,000	5,000
<30	6,000	6,000	6,000	1,000	2,000	2,000	S	2,000
30–39	15,000	15,000	14,000	3,000	2,000	2,000	S	2,000
40–49	13,000	12,000	12,000	3,000	4,000	4,000	S	4,000
50–59	12,000	11,000	11,000	2,000	2,000	3,000	2,000	1,000
60+	15,000	8,000	7,000	4,000	3,000	13,000	13,000	2,000
S&E-related fields	40,000	36,000	35,000	19,000	6,000	20,000	12,000	15,000
<30	13,000	13,000	12,000	5,000	2,000	4,000	S	4,000
30–39	22,000	20,000	19,000	10,000	3,000	8,000	S	8,000
40–49	22,000	20,000	19,000	10,000	3,000	11,000	2,000	11,000
50–59	18,000	17,000	16,000	8,000	2,000	8,000	4,000	7,000
60+	14,000	9,000	7,000	5,000	3,000	12,000	11,000	4,000
Non-S&E fields	29,000	29,000	27,000	9,000	2,000	4,000	2,000	3,000
<30	9,000	9,000	8,000	3,000	S	S	S	S

TABLE A-10. Standard errors for U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
30–39	14,000	14,000	13,000	5,000	S	S	S	S
40–49	18,000	18,000	17,000	5,000	S	1,000	S	S
50–59	13,000	13,000	12,000	4,000	S	2,000	S	2,000
60+	7,000	7,000	6,000	4,000	S	2,000	2,000	S
Master's degrees	50,000	47,000	45,000	17,000	10,000	22,000	17,000	14,000
<30	14,000	13,000	13,000	4,000	2,000	4,000	S	4,000
30–39	24,000	24,000	22,000	9,000	5,000	8,000	S	8,000
40–49	27,000	27,000	26,000	9,000	4,000	7,000	2,000	7,000
50–59	25,000	24,000	23,000	9,000	5,000	9,000	6,000	6,000
60+	22,000	16,000	14,000	10,000	3,000	17,000	16,000	4,000
S&E fields	33,000	28,000	26,000	9,000	5,000	14,000	12,000	8,000
<30	7,000	7,000	6,000	3,000	1,000	2,000	S	2,000
30–39	14,000	13,000	13,000	5,000	3,000	5,000	S	5,000
40–49	14,000	14,000	13,000	4,000	2,000	5,000	1,000	5,000
50–59	16,000	15,000	15,000	5,000	3,000	5,000	4,000	3,000
60+	15,000	10,000	8,000	6,000	2,000	11,000	11,000	3,000
Sciences	30,000	25,000	23,000	9,000	4,000	13,000	11,000	7,000
<30	6,000	6,000	5,000	3,000	1,000	1,000	S	1,000
30–39	12,000	12,000	12,000	5,000	2,000	5,000	S	5,000
40–49	13,000	12,000	12,000	4,000	2,000	4,000	1,000	4,000
50–59	15,000	14,000	14,000	5,000	2,000	5,000	4,000	3,000
60+	13,000	9,000	7,000	5,000	2,000	10,000	9,000	3,000
Biological/agricultural/environmental life sciences	11,000	9,000	9,000	3,000	1,000	6,000	5,000	3,000
<30	3,000	2,000	2,000	1,000	1,000	1,000	S	1,000
30–39	5,000	5,000	5,000	1,000	500	2,000	S	2,000
40–49	5,000	5,000	5,000	2,000	500	1,000	S	1,000
50–59	6,000	5,000	5,000	1,000	S	3,000	2,000	1,000
60+	5,000	3,000	3,000	1,000	S	4,000	4,000	S
Computer/mathematical sciences	12,000	11,000	10,000	4,000	3,000	4,000	3,000	2,000
<30	4,000	4,000	3,000	2,000	500	1,000	S	1,000
30–39	7,000	7,000	6,000	3,000	2,000	1,000	S	1,000
40–49	6,000	6,000	6,000	1,000	1,000	1,000	S	1,000
50–59	6,000	6,000	6,000	2,000	2,000	2,000	2,000	1,000
60+	4,000	3,000	2,000	1,000	500	3,000	3,000	S
Physical/related sciences	7,000	7,000	6,000	3,000	1,000	3,000	3,000	2,000
<30	1,000	1,000	1,000	1,000	500	500	S	500
30–39	2,000	2,000	2,000	500	500	1,000	S	1,000
40–49	4,000	4,000	4,000	1,000	500	1,000	S	1,000
50–59	4,000	4,000	4,000	1,000	500	1,000	500	S

TABLE A-10. Standard errors for U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
60+	5,000	3,000	2,000	2,000	S	3,000	3,000	S
Social/related sciences	22,000	19,000	18,000	7,000	3,000	10,000	7,000	7,000
<30	4,000	4,000	4,000	2,000	1,000	1,000	S	1,000
30–39	10,000	9,000	9,000	3,000	1,000	4,000	S	4,000
40–49	10,000	9,000	9,000	3,000	2,000	4,000	S	4,000
50–59	12,000	11,000	11,000	4,000	1,000	3,000	2,000	2,000
60+	10,000	7,000	6,000	5,000	2,000	7,000	6,000	2,000
Engineering	13,000	12,000	11,000	4,000	2,000	6,000	5,000	3,000
<30	3,000	3,000	2,000	1,000	500	1,000	S	1,000
30–39	6,000	6,000	6,000	1,000	1,000	2,000	S	2,000
40–49	7,000	7,000	7,000	2,000	1,000	2,000	S	2,000
50–59	6,000	6,000	6,000	1,000	2,000	2,000	2,000	1,000
60+	6,000	4,000	3,000	2,000	1,000	5,000	5,000	1,000
S&E-related fields	22,000	20,000	20,000	10,000	4,000	11,000	7,000	7,000
<30	8,000	8,000	8,000	2,000	1,000	2,000	S	2,000
30–39	11,000	10,000	10,000	5,000	3,000	3,000	S	3,000
40–49	13,000	12,000	11,000	6,000	2,000	4,000	S	4,000
50–59	12,000	11,000	10,000	5,000	1,000	5,000	4,000	3,000
60+	10,000	7,000	6,000	4,000	S	6,000	6,000	S
Non-S&E fields	40,000	34,000	34,000	11,000	7,000	15,000	12,000	10,000
<30	10,000	9,000	9,000	2,000	1,000	3,000	S	3,000
30–39	18,000	17,000	17,000	5,000	3,000	6,000	S	6,000
40–49	19,000	19,000	19,000	6,000	3,000	5,000	1,000	5,000
50–59	19,000	18,000	17,000	5,000	4,000	6,000	5,000	4,000
60+	15,000	10,000	9,000	6,000	2,000	11,000	11,000	2,000
Doctorate degrees	11,000	11,000	10,000	3,000	2,000	5,000	4,000	2,000
<30	3,000	3,000	3,000	*	*	1,000	S	1,000
30–39	5,000	5,000	5,000	1,000	1,000	1,000	S	1,000
40–49	5,000	5,000	5,000	1,000	1,000	1,000	*	1,000
50–59	6,000	6,000	6,000	1,000	1,000	2,000	2,000	1,000
60+	6,000	4,000	4,000	2,000	1,000	4,000	4,000	1,000
S&E fields	5,000	5,000	5,000	2,000	1,000	3,000	2,000	1,000
<30	3,000	3,000	3,000	*	S	1,000	S	1,000
30–39	3,000	3,000	3,000	1,000	1,000	500	S	500
40–49	3,000	3,000	3,000	1,000	500	1,000	*	1,000
50–59	2,000	2,000	2,000	1,000	1,000	1,000	500	500
60+	3,000	2,000	2,000	1,000	1,000	2,000	2,000	1,000
Sciences	5,000	5,000	5,000	2,000	1,000	2,000	2,000	1,000

TABLE A-10. Standard errors for U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
<30	3,000	3,000	3,000	*	S	1,000	S	1,000
30–39	3,000	3,000	3,000	1,000	1,000	500	S	500
40–49	3,000	3,000	3,000	1,000	500	1,000	*	1,000
50–59	2,000	2,000	2,000	1,000	500	1,000	500	500
60+	3,000	2,000	2,000	1,000	500	2,000	2,000	1,000
Biological/agricultural/environmental life sciences	4,000	3,000	3,000	1,000	1,000	2,000	2,000	500
<30	2,000	2,000	2,000	S	S	*	S	*
30–39	2,000	2,000	2,000	500	1,000	500	S	500
40–49	2,000	2,000	2,000	500	500	500	S	500
50–59	1,000	1,000	1,000	500	500	500	500	500
60+	2,000	1,000	1,000	1,000	500	2,000	2,000	500
Computer/mathematical sciences	2,000	2,000	2,000	500	500	500	500	500
<30	2,000	2,000	2,000	S	S	S	S	S
30–39	1,000	1,000	1,000	500	*	*	S	*
40–49	1,000	1,000	1,000	500	*	*	S	*
50–59	1,000	1,000	1,000	500	*	500	*	*
60+	1,000	1,000	1,000	500	*	500	500	*
Physical/related sciences	2,000	2,000	2,000	500	500	1,000	1,000	1,000
<30	500	500	500	S	S	S	S	S
30–39	1,000	1,000	1,000	500	*	500	S	500
40–49	1,000	1,000	1,000	500	500	500	S	500
50–59	1,000	1,000	1,000	500	500	500	500	500
60+	1,000	1,000	1,000	500	500	1,000	1,000	500
Social/related sciences	2,000	2,000	2,000	1,000	500	1,000	1,000	1,000
<30	1,000	500	500	S	S	S	S	S
30–39	1,000	1,000	1,000	1,000	500	500	S	500
40–49	1,000	1,000	1,000	500	500	500	S	500
50–59	1,000	1,000	1,000	1,000	500	1,000	500	500
60+	1,000	1,000	1,000	1,000	500	1,000	1,000	500
Engineering	2,000	2,000	2,000	1,000	1,000	1,000	1,000	500
<30	500	500	500	S	S	S	S	S
30–39	1,000	1,000	1,000	500	500	500	S	500
40–49	1,000	1,000	1,000	500	500	*	S	*
50–59	1,000	1,000	1,000	500	500	500	500	*
60+	1,000	1,000	1,000	500	500	1,000	1,000	500
S&E-related fields	5,000	4,000	4,000	1,000	500	2,000	2,000	1,000
<30	1,000	1,000	1,000	S	S	S	S	S
30–39	1,000	1,000	1,000	500	*	S	S	S
40–49	3,000	3,000	3,000	1,000	S	500	S	500

TABLE A-10. Standard errors for U.S. scientists and engineers, by level and field of highest degree, age, and employment status: 2003

Level and field of highest degree and age (years)	All scientists and engineers	Employed			Unemployed/ seeking job	Not in labor force		
		Total	Full time	Part time		Total	Retired	Not seeking job
50–59	2,000	2,000	2,000	500	*	500	500	*
60+	2,000	2,000	2,000	500	*	2,000	2,000	500
Non-S&E fields	8,000	8,000	8,000	2,000	1,000	3,000	3,000	1,000
<30	S	S	S	S	S	S	S	S
30–39	4,000	4,000	4,000	S	S	S	S	S
40–49	3,000	3,000	3,000	S	S	S	S	S
50–59	5,000	5,000	5,000	1,000	1,000	2,000	2,000	S
60+	4,000	3,000	3,000	2,000	S	3,000	2,000	S

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-11. Standard errors for U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a]					
		American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
All degree levels and fields[b]	84,000	7,000	24,000	20,000	21,000	79,000	13,000
Male	63,000	6,000	17,000	12,000	15,000	58,000	10,000
Female	56,000	5,000	16,000	16,000	13,000	53,000	9,000
S&E fields	73,000	5,000	19,000	16,000	16,000	68,000	9,000
Male	57,000	4,000	13,000	11,000	11,000	52,000	7,000
Female	46,000	4,000	13,000	12,000	11,000	41,000	7,000
Sciences	69,000	5,000	17,000	16,000	14,000	64,000	9,000
Male	49,000	4,000	10,000	11,000	9,000	44,000	6,000
Female	45,000	4,000	13,000	12,000	11,000	41,000	7,000
Biological/agricultural/environmental life sciences	31,000	1,000	8,000	5,000	7,000	28,000	4,000
Male	22,000	1,000	5,000	3,000	4,000	22,000	3,000
Female	20,000	1,000	6,000	5,000	5,000	19,000	2,000
Agricultural/food sciences	13,000	1,000	3,000	1,000	2,000	13,000	2,000
Male	10,000	S	2,000	1,000	2,000	10,000	1,000
Female	8,000	S	2,000	1,000	1,000	8,000	1,000
Biological sciences	28,000	1,000	8,000	5,000	7,000	25,000	3,000
Male	20,000	1,000	5,000	3,000	4,000	18,000	2,000
Female	18,000	1,000	6,000	5,000	5,000	17,000	2,000
Environmental life sciences	10,000	1,000	2,000	1,000	1,000	9,000	1,000
Male	8,000	500	1,000	1,000	1,000	8,000	1,000
Female	6,000	1,000	2,000	500	500	5,000	1,000
Computer/mathematical sciences	26,000	3,000	9,000	7,000	5,000	24,000	3,000
Male	19,000	2,000	6,000	5,000	4,000	19,000	3,000
Female	19,000	2,000	7,000	5,000	3,000	16,000	1,000
Computer/information sciences	19,000	3,000	8,000	6,000	5,000	16,000	3,000
Male	15,000	2,000	5,000	4,000	4,000	14,000	3,000
Female	13,000	2,000	6,000	4,000	3,000	10,000	1,000
Mathematical sciences	19,000	500	5,000	4,000	2,000	18,000	2,000
Male	14,000	S	3,000	3,000	2,000	14,000	2,000
Female	13,000	S	4,000	3,000	1,000	12,000	1,000
Physical/related sciences	18,000	1,000	6,000	3,000	3,000	16,000	4,000
Male	16,000	1,000	4,000	2,000	2,000	14,000	1,000
Female	11,000	1,000	4,000	2,000	2,000	9,000	4,000
Chemistry, except biochemistry	14,000	1,000	5,000	2,000	2,000	12,000	3,000
Male	11,000	*	3,000	1,000	2,000	10,000	1,000
Female	8,000	1,000	3,000	2,000	1,000	7,000	3,000
Earth/atmospheric/ocean sciences	10,000	*	1,000	1,000	1,000	10,000	500
Male	9,000	*	1,000	500	1,000	9,000	500
Female	4,000	S	1,000	S	1,000	4,000	*
Physics/astronomy	7,000	1,000	2,000	1,000	1,000	6,000	500
Male	6,000	S	2,000	1,000	1,000	6,000	500
Female	4,000	*	2,000	500	500	3,000	*
Other physical sciences	6,000	S	1,000	2,000	1,000	5,000	S
Male	4,000	S	500	1,000	*	4,000	S
Female	4,000	S	1,000	1,000	1,000	3,000	S
Social/related sciences	56,000	4,000	10,000	14,000	11,000	54,000	6,000
Male	35,000	3,000	7,000	8,000	6,000	35,000	4,000

TABLE A-11. Standard errors for U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a] American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Female	40,000	3,000	8,000	10,000	9,000	37,000	5,000
Economics	21,000	S	7,000	3,000	4,000	20,000	2,000
Male	20,000	S	5,000	3,000	3,000	19,000	2,000
Female	11,000	S	5,000	2,000	2,000	9,000	1,000
Political/related sciences	27,000	2,000	5,000	6,000	5,000	24,000	3,000
Male	21,000	1,000	3,000	4,000	3,000	20,000	3,000
Female	16,000	1,000	4,000	4,000	3,000	14,000	2,000
Psychology	34,000	2,000	6,000	8,000	6,000	33,000	4,000
Male	18,000	2,000	3,000	4,000	3,000	17,000	2,000
Female	28,000	1,000	5,000	7,000	5,000	27,000	3,000
Sociology/anthropology	24,000	2,000	4,000	7,000	4,000	23,000	3,000
Male	14,000	1,000	2,000	4,000	2,000	13,000	2,000
Female	21,000	2,000	3,000	6,000	3,000	19,000	2,000
Other social sciences	19,000	2,000	3,000	5,000	5,000	16,000	2,000
Male	13,000	1,000	1,000	3,000	3,000	12,000	1,000
Female	14,000	2,000	3,000	4,000	5,000	12,000	2,000
Engineering	33,000	1,000	10,000	5,000	7,000	30,000	5,000
Male	32,000	1,000	9,000	4,000	6,000	29,000	4,000
Female	10,000	500	5,000	2,000	3,000	9,000	1,000
Aerospace/related engineering	8,000	500	1,000	1,000	1,000	7,000	1,000
Male	7,000	S	1,000	1,000	1,000	7,000	1,000
Female	2,000	S	1,000	*	*	2,000	S
Chemical engineering	9,000	1,000	3,000	1,000	2,000	8,000	1,000
Male	8,000	1,000	3,000	1,000	1,000	7,000	500
Female	3,000	S	1,000	1,000	1,000	3,000	1,000
Civil/architectural engineering	13,000	500	4,000	2,000	4,000	11,000	3,000
Male	13,000	500	3,000	2,000	4,000	11,000	3,000
Female	4,000	S	1,000	1,000	1,000	3,000	500
Electrical/computer engineering	16,000	500	6,000	3,000	3,000	14,000	3,000
Male	15,000	500	6,000	3,000	3,000	13,000	3,000
Female	6,000	S	3,000	2,000	1,000	4,000	1,000
Industrial engineering	10,000	S	2,000	2,000	3,000	10,000	500
Male	10,000	S	2,000	1,000	3,000	9,000	500
Female	4,000	S	2,000	1,000	1,000	3,000	S
Mechanical engineering	16,000	1,000	4,000	2,000	2,000	16,000	1,000
Male	16,000	1,000	4,000	2,000	2,000	15,000	1,000
Female	4,000	S	1,000	500	1,000	4,000	500
Other engineering	13,000	500	3,000	1,000	3,000	12,000	1,000
Male	12,000	S	3,000	1,000	2,000	11,000	1,000
Female	4,000	S	2,000	1,000	1,000	3,000	500
S&E-related fields	42,000	3,000	13,000	10,000	11,000	41,000	7,000
Male	28,000	2,000	8,000	6,000	6,000	25,000	4,000
Female	33,000	3,000	11,000	9,000	8,000	33,000	6,000
Health	36,000	3,000	11,000	9,000	9,000	34,000	6,000
Male	20,000	1,000	6,000	4,000	5,000	18,000	3,000
Female	31,000	3,000	10,000	8,000	7,000	29,000	6,000
Science/mathematics teacher education	17,000	1,000	3,000	3,000	3,000	16,000	1,000

TABLE A-11. Standard errors for U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a]					
		American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Male	10,000	S	1,000	2,000	1,000	10,000	1,000
Female	13,000	1,000	3,000	3,000	2,000	12,000	1,000
Technology/technical fields	15,000	1,000	5,000	3,000	3,000	13,000	2,000
Male	14,000	S	4,000	3,000	3,000	13,000	1,000
Female	5,000	S	3,000	1,000	1,000	4,000	S
Other S&E-related fields	15,000	S	3,000	3,000	3,000	14,000	1,000
Male	12,000	S	3,000	3,000	3,000	12,000	1,000
Female	8,000	S	2,000	1,000	2,000	8,000	S
Non-S&E fields	52,000	4,000	11,000	12,000	8,000	47,000	6,000
Male	35,000	3,000	8,000	7,000	6,000	33,000	6,000
Female	35,000	3,000	7,000	9,000	6,000	32,000	4,000
Arts/humanities	16,000	S	3,000	2,000	2,000	16,000	1,000
Male	12,000	S	2,000	1,000	2,000	12,000	500
Female	12,000	S	3,000	1,000	1,000	12,000	1,000
Education, except science/mathematics teacher education	28,000	2,000	3,000	7,000	4,000	27,000	2,000
Male	17,000	1,000	2,000	3,000	2,000	17,000	2,000
Female	22,000	2,000	2,000	6,000	4,000	21,000	1,000
Management/administration	30,000	3,000	8,000	7,000	5,000	28,000	5,000
Male	22,000	2,000	6,000	5,000	4,000	22,000	5,000
Female	16,000	1,000	6,000	5,000	3,000	14,000	2,000
Sales/marketing	10,000	S	2,000	2,000	2,000	10,000	1,000
Male	8,000	S	1,000	1,000	1,000	8,000	S
Female	6,000	S	1,000	1,000	1,000	6,000	S
Social services/related	13,000	S	2,000	4,000	2,000	13,000	2,000
Male	9,000	S	1,000	2,000	1,000	9,000	1,000
Female	10,000	S	1,000	3,000	1,000	9,000	1,000
Other non-S&E fields	24,000	2,000	4,000	5,000	4,000	23,000	3,000
Male	18,000	1,000	3,000	3,000	3,000	17,000	2,000
Female	17,000	1,000	3,000	5,000	4,000	16,000	2,000
Bachelor's degrees	73,000	6,000	20,000	17,000	17,000	68,000	11,000
Male	55,000	5,000	13,000	11,000	11,000	51,000	8,000
Female	50,000	5,000	15,000	13,000	11,000	46,000	9,000
S&E fields	66,000	5,000	16,000	15,000	15,000	63,000	9,000
Male	53,000	4,000	11,000	10,000	10,000	48,000	6,000
Female	41,000	4,000	11,000	11,000	10,000	38,000	7,000
Sciences	64,000	5,000	14,000	15,000	13,000	60,000	8,000
Male	48,000	4,000	9,000	10,000	8,000	43,000	6,000
Female	41,000	4,000	11,000	11,000	10,000	38,000	7,000
Biological/agricultural/environmental life sciences	29,000	1,000	7,000	5,000	7,000	27,000	4,000
Male	21,000	1,000	5,000	3,000	4,000	21,000	3,000
Female	20,000	1,000	6,000	4,000	5,000	19,000	2,000
Agricultural/food sciences	13,000	S	3,000	1,000	2,000	12,000	2,000
Male	10,000	S	2,000	1,000	2,000	10,000	1,000
Female	8,000	S	2,000	1,000	1,000	8,000	S
Biological sciences	27,000	1,000	7,000	5,000	7,000	25,000	3,000
Male	19,000	1,000	4,000	3,000	4,000	18,000	2,000
Female	18,000	500	5,000	4,000	5,000	17,000	2,000

TABLE A-11. Standard errors for U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a]					
		American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Environmental life sciences	9,000	1,000	2,000	1,000	1,000	8,000	1,000
Male	7,000	S	S	1,000	1,000	7,000	S
Female	5,000	S	2,000	S	*	4,000	1,000
Computer/mathematical sciences	24,000	3,000	7,000	7,000	5,000	22,000	3,000
Male	18,000	2,000	5,000	5,000	4,000	18,000	3,000
Female	17,000	2,000	6,000	4,000	3,000	14,000	1,000
Computer/information sciences	17,000	3,000	6,000	6,000	4,000	14,000	2,000
Male	13,000	2,000	4,000	4,000	3,000	12,000	2,000
Female	11,000	2,000	5,000	4,000	3,000	9,000	1,000
Mathematical sciences	18,000	S	5,000	3,000	2,000	17,000	2,000
Male	13,000	S	3,000	3,000	2,000	13,000	2,000
Female	12,000	S	4,000	2,000	1,000	11,000	1,000
Physical/related sciences	16,000	1,000	4,000	3,000	3,000	14,000	4,000
Male	14,000	500	3,000	2,000	2,000	13,000	1,000
Female	10,000	1,000	3,000	2,000	2,000	8,000	4,000
Chemistry, except biochemistry	13,000	1,000	4,000	2,000	2,000	11,000	3,000
Male	10,000	S	3,000	1,000	2,000	9,000	1,000
Female	8,000	S	3,000	2,000	1,000	7,000	3,000
Earth/atmospheric/ocean sciences	9,000	S	1,000	1,000	1,000	9,000	500
Male	8,000	S	1,000	500	1,000	8,000	500
Female	4,000	S	S	S	1,000	3,000	S
Physics/astronomy	7,000	*	2,000	1,000	1,000	6,000	500
Male	5,000	S	2,000	1,000	1,000	5,000	500
Female	4,000	S	1,000	500	500	3,000	S
Other physical sciences	6,000	S	1,000	1,000	1,000	5,000	S
Male	4,000	S	S	1,000	S	4,000	S
Female	4,000	S	1,000	1,000	1,000	3,000	S
Social/related sciences	52,000	4,000	10,000	13,000	10,000	50,000	6,000
Male	33,000	3,000	6,000	8,000	6,000	32,000	4,000
Female	36,000	3,000	7,000	9,000	8,000	34,000	5,000
Economics	20,000	S	7,000	3,000	4,000	18,000	2,000
Male	19,000	S	5,000	3,000	3,000	18,000	2,000
Female	10,000	S	5,000	1,000	2,000	8,000	1,000
Political/related sciences	25,000	2,000	4,000	6,000	4,000	23,000	3,000
Male	20,000	S	3,000	4,000	3,000	19,000	3,000
Female	15,000	1,000	3,000	4,000	3,000	14,000	2,000
Psychology	31,000	2,000	5,000	7,000	5,000	30,000	3,000
Male	17,000	S	3,000	4,000	3,000	16,000	2,000
Female	25,000	1,000	4,000	6,000	5,000	24,000	3,000
Sociology/anthropology	24,000	2,000	4,000	7,000	4,000	24,000	3,000
Male	14,000	1,000	1,000	4,000	2,000	13,000	2,000
Female	21,000	2,000	3,000	6,000	3,000	19,000	2,000
Other social sciences	18,000	2,000	3,000	4,000	5,000	15,000	2,000
Male	12,000	S	1,000	3,000	2,000	11,000	1,000
Female	13,000	2,000	3,000	3,000	4,000	11,000	1,000
Engineering	31,000	1,000	8,000	5,000	6,000	28,000	4,000
Male	29,000	1,000	7,000	4,000	6,000	26,000	4,000

TABLE A-11. Standard errors for U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a] American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Female	9,000	500	4,000	2,000	2,000	8,000	1,000
Aerospace/related engineering	7,000	500	1,000	1,000	1,000	7,000	1,000
Male	7,000	S	1,000	1,000	1,000	6,000	1,000
Female	2,000	S	1,000	S	*	2,000	S
Chemical engineering	8,000	1,000	2,000	1,000	2,000	7,000	1,000
Male	7,000	1,000	2,000	500	1,000	6,000	500
Female	3,000	S	1,000	1,000	1,000	2,000	1,000
Civil/architectural engineering	12,000	500	3,000	2,000	3,000	10,000	3,000
Male	11,000	500	3,000	2,000	3,000	10,000	3,000
Female	3,000	S	1,000	500	1,000	2,000	500
Electrical/computer engineering	14,000	500	5,000	3,000	2,000	12,000	3,000
Male	13,000	S	4,000	3,000	2,000	12,000	3,000
Female	5,000	S	2,000	2,000	1,000	4,000	1,000
Industrial engineering	10,000	S	2,000	1,000	2,000	9,000	500
Male	10,000	S	1,000	1,000	2,000	9,000	S
Female	4,000	S	2,000	1,000	1,000	3,000	S
Mechanical engineering	15,000	500	4,000	2,000	2,000	15,000	1,000
Male	14,000	500	4,000	2,000	2,000	14,000	1,000
Female	4,000	S	1,000	500	1,000	4,000	500
Other engineering	11,000	S	3,000	1,000	2,000	10,000	1,000
Male	11,000	S	2,000	1,000	2,000	10,000	500
Female	4,000	S	2,000	1,000	1,000	3,000	S
S&E-related fields	40,000	3,000	11,000	9,000	8,000	37,000	6,000
Male	23,000	1,000	6,000	5,000	4,000	20,000	3,000
Female	32,000	2,000	10,000	8,000	7,000	30,000	6,000
Health	34,000	2,000	9,000	7,000	6,000	31,000	6,000
Male	14,000	1,000	4,000	3,000	3,000	12,000	2,000
Female	30,000	2,000	9,000	7,000	6,000	28,000	6,000
Science/mathematics teacher education	14,000	S	3,000	3,000	2,000	13,000	500
Male	8,000	S	1,000	2,000	1,000	8,000	S
Female	10,000	S	2,000	2,000	2,000	10,000	S
Technology/technical fields	14,000	1,000	4,000	3,000	3,000	13,000	1,000
Male	14,000	S	3,000	3,000	3,000	12,000	1,000
Female	5,000	S	3,000	1,000	1,000	4,000	S
Other S&E-related fields	13,000	S	3,000	2,000	3,000	12,000	1,000
Male	11,000	S	2,000	2,000	2,000	10,000	1,000
Female	7,000	S	2,000	1,000	2,000	7,000	S
Non-S&E fields	29,000	3,000	5,000	7,000	4,000	27,000	3,000
Male	21,000	1,000	4,000	4,000	3,000	20,000	2,000
Female	21,000	2,000	4,000	5,000	3,000	19,000	2,000
Arts/humanities	15,000	S	2,000	1,000	2,000	15,000	1,000
Male	10,000	S	1,000	1,000	2,000	10,000	500
Female	10,000	S	1,000	1,000	1,000	10,000	1,000
Education, except science/mathematics teacher education	11,000	2,000	1,000	2,000	2,000	11,000	1,000
Male	8,000	S	1,000	1,000	1,000	7,000	1,000
Female	10,000	S	1,000	2,000	1,000	10,000	1,000
Management/administration	19,000	1,000	4,000	5,000	3,000	17,000	2,000

TABLE A-11. Standard errors for U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a] American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Male	14,000	S	3,000	3,000	2,000	14,000	2,000
Female	11,000	S	3,000	3,000	2,000	9,000	1,000
Sales/marketing	5,000	S	S	1,000	1,000	5,000	S
Male	4,000	S	S	S	1,000	3,000	S
Female	4,000	S	S	S	S	4,000	S
Social services/related	5,000	S	1,000	2,000	500	5,000	S
Male	4,000	S	1,000	1,000	S	4,000	S
Female	3,000	S	S	1,000	S	3,000	S
Other non-S&E fields	11,000	S	2,000	3,000	2,000	10,000	1,000
Male	7,000	S	1,000	1,000	1,000	7,000	1,000
Female	8,000	S	1,000	2,000	2,000	8,000	S
Master's degrees	50,000	3,000	13,000	12,000	9,000	42,000	7,000
Male	34,000	3,000	9,000	6,000	7,000	30,000	6,000
Female	34,000	2,000	8,000	10,000	6,000	30,000	4,000
S&E fields	33,000	2,000	9,000	6,000	6,000	29,000	3,000
Male	24,000	1,000	7,000	4,000	5,000	22,000	3,000
Female	20,000	1,000	7,000	5,000	4,000	17,000	2,000
Sciences	30,000	2,000	9,000	6,000	5,000	26,000	3,000
Male	20,000	1,000	5,000	3,000	3,000	18,000	2,000
Female	19,000	1,000	7,000	5,000	3,000	16,000	2,000
Biological/agricultural/environmental life sciences	11,000	500	3,000	1,000	2,000	9,000	1,000
Male	8,000	S	2,000	1,000	1,000	7,000	1,000
Female	7,000	500	2,000	1,000	1,000	7,000	1,000
Agricultural/food sciences	4,000	S	1,000	1,000	1,000	4,000	1,000
Male	3,000	S	500	1,000	S	3,000	S
Female	3,000	S	1,000	S	1,000	3,000	S
Biological sciences	9,000	500	3,000	1,000	2,000	8,000	1,000
Male	6,000	S	2,000	1,000	1,000	6,000	S
Female	6,000	S	2,000	1,000	1,000	5,000	500
Environmental life sciences	5,000	S	1,000	500	*	5,000	S
Male	4,000	S	1,000	S	S	4,000	S
Female	3,000	S	S	500	*	3,000	S
Computer/mathematical sciences	12,000	S	6,000	2,000	2,000	10,000	1,000
Male	10,000	S	4,000	1,000	2,000	9,000	1,000
Female	8,000	S	5,000	2,000	1,000	5,000	1,000
Computer/information sciences	11,000	S	6,000	2,000	2,000	9,000	1,000
Male	9,000	S	4,000	1,000	2,000	8,000	1,000
Female	7,000	S	5,000	1,000	500	5,000	1,000
Mathematical sciences	7,000	S	2,000	1,000	1,000	6,000	1,000
Male	6,000	S	1,000	500	1,000	5,000	500
Female	4,000	S	2,000	1,000	500	3,000	S
Physical/related sciences	7,000	1,000	3,000	1,000	1,000	7,000	500
Male	6,000	S	2,000	1,000	1,000	6,000	500
Female	4,000	S	2,000	500	500	3,000	*
Chemistry, except biochemistry	5,000	S	2,000	1,000	500	4,000	S
Male	4,000	S	2,000	1,000	500	3,000	S
Female	2,000	S	2,000	*	500	2,000	S

TABLE A-11. Standard errors for U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a]					
		American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Earth/atmospheric/ocean sciences	5,000	S	1,000	S	500	4,000	500
Male	4,000	S	1,000	S	500	4,000	500
Female	2,000	S	1,000	S	*	2,000	S
Physics/astronomy	4,000	S	1,000	500	1,000	3,000	*
Male	3,000	S	1,000	500	1,000	3,000	S
Female	1,000	S	1,000	S	S	1,000	S
Other physical sciences	2,000	S	S	S	S	2,000	S
Male	1,000	S	S	S	S	1,000	S
Female	1,000	S	S	S	S	1,000	S
Social/related sciences	22,000	1,000	4,000	5,000	4,000	20,000	2,000
Male	14,000	1,000	2,000	3,000	3,000	13,000	2,000
Female	15,000	1,000	3,000	4,000	3,000	14,000	2,000
Economics	7,000	S	2,000	2,000	1,000	7,000	*
Male	6,000	S	2,000	1,000	1,000	6,000	S
Female	4,000	S	2,000	1,000	500	3,000	S
Political/related sciences	9,000	S	2,000	2,000	1,000	8,000	1,000
Male	7,000	S	1,000	1,000	1,000	7,000	1,000
Female	5,000	S	2,000	2,000	1,000	4,000	S
Psychology	16,000	1,000	2,000	4,000	3,000	15,000	2,000
Male	9,000	S	1,000	1,000	2,000	8,000	2,000
Female	13,000	1,000	2,000	4,000	2,000	12,000	1,000
Sociology/anthropology	6,000	S	1,000	1,000	1,000	6,000	1,000
Male	4,000	S	500	1,000	1,000	4,000	S
Female	4,000	S	1,000	1,000	1,000	4,000	S
Other social sciences	7,000	S	1,000	2,000	2,000	6,000	1,000
Male	4,000	S	500	2,000	1,000	4,000	S
Female	5,000	S	1,000	1,000	1,000	5,000	500
Engineering	13,000	S	5,000	2,000	3,000	12,000	1,000
Male	13,000	S	5,000	1,000	3,000	12,000	1,000
Female	5,000	S	2,000	500	2,000	4,000	500
Aerospace/related engineering	2,000	S	1,000	S	1,000	2,000	500
Male	2,000	S	1,000	S	1,000	2,000	500
Female	500	S	S	S	S	500	S
Chemical engineering	4,000	S	2,000	500	1,000	3,000	S
Male	3,000	S	2,000	500	500	2,000	S
Female	2,000	S	500	*	1,000	1,000	S
Civil/architectural engineering	5,000	S	2,000	1,000	2,000	4,000	1,000
Male	5,000	S	2,000	1,000	2,000	4,000	1,000
Female	2,000	S	1,000	*	500	2,000	S
Electrical/computer engineering	8,000	S	4,000	1,000	1,000	6,000	1,000
Male	7,000	S	3,000	1,000	1,000	6,000	1,000
Female	3,000	S	2,000	500	1,000	2,000	S
Industrial engineering	3,000	S	1,000	1,000	1,000	3,000	S
Male	3,000	S	1,000	1,000	1,000	3,000	S
Female	2,000	S	500	*	500	1,000	S
Mechanical engineering	5,000	S	2,000	500	1,000	5,000	1,000
Male	5,000	S	2,000	500	1,000	5,000	1,000

TABLE A-11. Standard errors for U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a] American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Female	1,000	S	500	*	S	1,000	S
Other engineering	6,000	S	2,000	1,000	1,000	6,000	500
Male	6,000	S	2,000	1,000	1,000	5,000	500
Female	2,000	S	1,000	500	1,000	2,000	500
S&E-related fields	22,000	1,000	5,000	5,000	4,000	20,000	2,000
Male	12,000	S	3,000	3,000	2,000	11,000	2,000
Female	19,000	1,000	4,000	4,000	3,000	17,000	2,000
Health	17,000	1,000	4,000	4,000	3,000	16,000	2,000
Male	7,000	S	2,000	2,000	1,000	7,000	1,000
Female	16,000	1,000	4,000	4,000	3,000	15,000	1,000
Science/mathematics teacher education	9,000	S	1,000	2,000	1,000	9,000	1,000
Male	6,000	S	1,000	1,000	1,000	6,000	S
Female	8,000	S	1,000	2,000	1,000	7,000	S
Technology/technical fields	4,000	S	2,000	1,000	1,000	4,000	1,000
Male	4,000	S	2,000	1,000	1,000	3,000	1,000
Female	3,000	S	1,000	S	S	2,000	S
Other S&E-related fields	7,000	S	1,000	1,000	1,000	7,000	1,000
Male	6,000	S	1,000	1,000	1,000	6,000	S
Female	3,000	S	1,000	S	S	3,000	S
Non-S&E fields	40,000	3,000	8,000	10,000	7,000	36,000	5,000
Male	28,000	3,000	6,000	5,000	5,000	26,000	5,000
Female	25,000	1,000	6,000	8,000	4,000	23,000	3,000
Arts/humanities	9,000	S	3,000	1,000	1,000	9,000	500
Male	7,000	S	1,000	S	1,000	7,000	S
Female	6,000	S	2,000	1,000	1,000	5,000	S
Education, except science/mathematics teacher education	24,000	1,000	2,000	6,000	4,000	23,000	2,000
Male	14,000	1,000	1,000	3,000	2,000	13,000	2,000
Female	19,000	S	2,000	5,000	3,000	17,000	1,000
Management/administration	23,000	2,000	7,000	6,000	5,000	22,000	5,000
Male	18,000	2,000	5,000	3,000	4,000	18,000	4,000
Female	13,000	S	5,000	5,000	2,000	11,000	2,000
Sales/marketing	9,000	S	2,000	1,000	1,000	8,000	S
Male	7,000	S	1,000	1,000	1,000	7,000	S
Female	4,000	S	1,000	1,000	1,000	4,000	S
Social services/related	11,000	S	2,000	4,000	2,000	11,000	2,000
Male	7,000	S	1,000	2,000	1,000	7,000	1,000
Female	9,000	S	1,000	3,000	1,000	8,000	1,000
Other non-S&E fields	13,000	1,000	2,000	4,000	2,000	12,000	2,000
Male	10,000	S	2,000	2,000	1,000	10,000	2,000
Female	9,000	S	2,000	3,000	2,000	8,000	1,000
Doctorate degrees	11,000	500	3,000	2,000	2,000	10,000	1,000
Male	9,000	500	3,000	1,000	1,000	8,000	1,000
Female	6,000	500	2,000	2,000	1,000	6,000	1,000
S&E fields	5,000	500	3,000	2,000	1,000	4,000	1,000
Male	4,000	500	2,000	1,000	1,000	3,000	500
Female	4,000	*	1,000	2,000	1,000	3,000	500
Sciences	5,000	500	3,000	2,000	1,000	4,000	1,000

TABLE A-11. Standard errors for U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a]					
		American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Male	4,000	500	2,000	1,000	1,000	3,000	500
Female	4,000	*	1,000	2,000	1,000	3,000	500
Biological/agricultural/environmental life sciences	4,000	*	2,000	1,000	1,000	3,000	500
Male	3,000	*	2,000	1,000	1,000	1,000	500
Female	3,000	*	1,000	1,000	500	3,000	500
Agricultural/food sciences	1,000	S	500	500	1,000	1,000	*
Male	1,000	S	500	500	1,000	500	*
Female	500	S	500	*	*	500	S
Biological sciences	4,000	*	2,000	1,000	1,000	3,000	500
Male	2,000	*	2,000	1,000	500	1,000	500
Female	3,000	*	1,000	1,000	500	3,000	500
Environmental life sciences	500	S	500	*	*	500	S
Male	500	S	*	*	*	500	S
Female	500	S	*	S	*	500	S
Computer/mathematical sciences	2,000	S	1,000	2,000	500	1,000	*
Male	1,000	S	1,000	500	500	1,000	*
Female	2,000	S	500	2,000	*	500	*
Computer/information sciences	1,000	S	500	500	500	1,000	*
Male	1,000	S	500	*	*	1,000	*
Female	500	S	500	*	*	500	S
Mathematical sciences	2,000	S	500	2,000	500	1,000	*
Male	1,000	S	500	500	500	1,000	*
Female	2,000	S	500	2,000	*	500	*
Physical/related sciences	2,000	*	1,000	500	500	2,000	500
Male	2,000	*	1,000	500	500	2,000	500
Female	1,000	S	500	*	500	1,000	*
Chemistry, except biochemistry	2,000	*	1,000	500	500	1,000	500
Male	1,000	*	1,000	500	500	1,000	500
Female	1,000	S	500	*	500	500	*
Earth/atmospheric/ocean sciences	1,000	S	500	*	*	1,000	*
Male	1,000	S	500	*	*	500	*
Female	500	S	500	S	*	500	S
Physics/astronomy	1,000	S	1,000	500	500	1,000	*
Male	1,000	S	500	*	500	1,000	*
Female	1,000	S	500	*	*	500	S
Other physical sciences	1,000	S	*	S	S	1,000	S
Male	1,000	S	*	S	S	1,000	S
Female	500	S	*	S	S	*	S
Social/related sciences	2,000	500	1,000	500	500	2,000	500
Male	1,000	*	1,000	500	500	1,000	500
Female	2,000	*	1,000	500	500	1,000	500
Economics	1,000	S	500	500	500	500	*
Male	1,000	S	500	500	500	500	*
Female	500	S	500	*	*	500	S
Political/related sciences	1,000	S	1,000	500	500	1,000	*
Male	1,000	S	500	500	*	1,000	*
Female	1,000	S	1,000	*	*	500	*

TABLE A-11. Standard errors for U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a]					
		American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Psychology	1,000	*	500	500	500	1,000	500
Male	1,000	*	500	500	500	1,000	500
Female	1,000	*	500	500	500	1,000	500
Sociology/anthropology	1,000	*	500	500	500	1,000	*
Male	500	S	500	500	500	500	*
Female	1,000	S	500	500	500	1,000	*
Other social sciences	1,000	*	1,000	500	500	1,000	*
Male	1,000	S	1,000	500	500	500	*
Female	500	*	500	*	*	500	*
Engineering	2,000	S	1,000	500	500	1,000	500
Male	2,000	S	1,000	500	500	1,000	500
Female	500	S	500	*	*	500	*
Aerospace/related engineering	1,000	S	1,000	*	*	500	S
Male	1,000	S	1,000	*	*	500	S
Female	*	S	S	S	S	*	S
Chemical engineering	1,000	S	1,000	*	500	500	*
Male	1,000	S	1,000	*	500	500	*
Female	500	S	500	*	*	500	S
Civil/architectural engineering	1,000	S	500	*	*	500	*
Male	1,000	S	500	*	*	500	*
Female	500	S	*	S	S	*	S
Electrical/computer engineering	1,000	S	1,000	500	500	1,000	*
Male	1,000	S	500	500	500	1,000	*
Female	500	S	500	*	*	500	S
Industrial engineering	500	S	500	*	*	500	S
Male	500	S	500	*	*	500	S
Female	500	S	S	*	S	500	S
Mechanical engineering	1,000	S	500	*	*	500	*
Male	1,000	S	500	*	*	500	*
Female	500	S	*	S	S	*	S
Other engineering	1,000	S	1,000	500	500	1,000	*
Male	1,000	S	1,000	*	500	1,000	*
Female	500	S	500	*	*	500	S
S&E-related fields	5,000	*	1,000	1,000	1,000	4,000	500
Male	4,000	S	1,000	1,000	1,000	4,000	500
Female	3,000	*	1,000	500	1,000	2,000	*
Health	3,000	*	1,000	1,000	1,000	2,000	*
Male	2,000	S	1,000	1,000	1,000	1,000	*
Female	2,000	*	1,000	500	1,000	2,000	*
Science/mathematics teacher education	3,000	S	S	S	S	3,000	S
Male	2,000	S	S	S	S	2,000	S
Female	1,000	S	S	S	S	1,000	S
Technology/technical fields	1,000	S	500	S	S	1,000	S
Male	1,000	S	500	S	S	1,000	S
Female	S	S	S	S	S	S	S
Other S&E-related fields	3,000	S	S	S	S	3,000	S
Male	3,000	S	S	S	S	3,000	S

TABLE A-11. Standard errors for U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree and sex	All scientists and engineers	Race/ethnicity[a]					
		American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Female	1,000	S	S	S	S	S	S
Non-S&E fields	8,000	S	1,000	1,000	1,000	8,000	1,000
Male	7,000	S	1,000	1,000	1,000	7,000	S
Female	5,000	S	1,000	1,000	1,000	5,000	1,000
Arts/humanities	2,000	S	S	S	500	2,000	S
Male	2,000	S	S	S	S	2,000	S
Female	1,000	S	S	S	S	1,000	S
Education, except science/mathematics teacher education	7,000	S	500	1,000	1,000	7,000	1,000
Male	6,000	S	S	1,000	1,000	6,000	S
Female	4,000	S	500	1,000	1,000	4,000	1,000
Management/administration	3,000	S	1,000	S	S	2,000	S
Male	2,000	S	1,000	S	S	2,000	S
Female	1,000	S	S	S	S	1,000	S
Sales/marketing	500	S	500	S	S	500	S
Male	500	S	S	S	S	S	S
Female	500	S	S	S	S	S	S
Social services/related	3,000	S	500	1,000	S	3,000	S
Male	3,000	S	S	1,000	S	3,000	S
Female	1,000	S	S	500	S	1,000	S
Other non-S&E fields	4,000	S	1,000	1,000	1,000	3,000	S
Male	2,000	S	1,000	S	S	2,000	S
Female	3,000	S	S	S	S	3,000	S

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] "Other" includes Native Hawaiian/Other Pacific Islander and non-Hispanic respondents reporting 2 or more races.

[b] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Standard errors of less than 500 are rounded up to 500 and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
All degree levels and fields[a]	82,000	74,000	73,000	29,000	32,000	42,000	26,000	33,000	34,000	21,000	28,000
Male	60,000	57,000	58,000	23,000	19,000	25,000	16,000	19,000	26,000	15,000	21,000
Female	56,000	51,000	43,000	17,000	26,000	32,000	19,000	26,000	22,000	13,000	19,000
S&E fields	67,000	59,000	57,000	17,000	18,000	26,000	17,000	20,000	26,000	15,000	20,000
Male	53,000	47,000	47,000	14,000	12,000	16,000	12,000	12,000	22,000	13,000	17,000
Female	41,000	35,000	31,000	11,000	16,000	18,000	10,000	15,000	15,000	9,000	12,000
Sciences	64,000	55,000	52,000	16,000	18,000	25,000	16,000	20,000	24,000	14,000	19,000
Male	46,000	41,000	41,000	13,000	11,000	15,000	11,000	12,000	19,000	12,000	15,000
Female	41,000	35,000	30,000	11,000	16,000	18,000	10,000	15,000	14,000	8,000	12,000
Biological/agricultural/environmental life sciences	27,000	25,000	21,000	8,000	9,000	12,000	9,000	9,000	11,000	7,000	8,000
Male	20,000	18,000	16,000	6,000	5,000	9,000	7,000	6,000	9,000	6,000	7,000
Female	17,000	15,000	13,000	4,000	7,000	9,000	5,000	7,000	7,000	4,000	5,000
Agricultural/food sciences	12,000	10,000	9,000	4,000	2,000	5,000	3,000	4,000	5,000	3,000	3,000
Male	9,000	8,000	7,000	3,000	1,000	4,000	2,000	4,000	4,000	3,000	2,000
Female	8,000	8,000	7,000	3,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Biological sciences	25,000	21,000	19,000	7,000	8,000	12,000	8,000	8,000	9,000	5,000	7,000
Male	19,000	16,000	14,000	5,000	5,000	8,000	6,000	4,000	7,000	4,000	5,000
Female	16,000	13,000	11,000	4,000	6,000	8,000	5,000	6,000	6,000	3,000	5,000
Environmental life sciences	9,000	7,000	7,000	2,000	2,000	2,000	2,000	1,000	5,000	3,000	4,000
Male	8,000	6,000	6,000	2,000	1,000	2,000	2,000	1,000	5,000	2,000	4,000
Female	5,000	4,000	4,000	S	2,000	1,000	1,000	1,000	2,000	1,000	2,000
Computer/mathematical sciences	24,000	23,000	21,000	5,000	5,000	9,000	6,000	8,000	7,000	5,000	5,000
Male	18,000	18,000	17,000	4,000	2,000	6,000	4,000	5,000	7,000	5,000	4,000
Female	16,000	14,000	12,000	3,000	5,000	7,000	4,000	6,000	4,000	2,000	3,000
Computer/information sciences	18,000	17,000	16,000	4,000	4,000	7,000	5,000	5,000	6,000	4,000	4,000
Male	14,000	13,000	13,000	3,000	2,000	4,000	3,000	3,000	6,000	4,000	3,000
Female	12,000	11,000	9,000	2,000	4,000	4,000	3,000	3,000	3,000	2,000	3,000
Mathematical sciences	16,000	14,000	13,000	3,000	3,000	8,000	4,000	7,000	4,000	3,000	3,000
Male	12,000	12,000	12,000	3,000	1,000	5,000	3,000	4,000	4,000	3,000	2,000
Female	11,000	8,000	7,000	2,000	2,000	6,000	3,000	6,000	2,000	1,000	1,000
Physical/related sciences	16,000	14,000	12,000	5,000	4,000	7,000	5,000	5,000	5,000	3,000	4,000
Male	15,000	13,000	11,000	4,000	3,000	5,000	3,000	4,000	5,000	3,000	3,000
Female	9,000	7,000	6,000	2,000	2,000	4,000	3,000	3,000	3,000	2,000	2,000
Chemistry, except biochemistry	12,000	11,000	9,000	3,000	4,000	5,000	3,000	4,000	3,000	2,000	3,000
Male	11,000	9,000	7,000	3,000	3,000	4,000	2,000	3,000	3,000	1,000	2,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	6,000	6,000	5,000	1,000	2,000	3,000	2,000	2,000	2,000	1,000	1,000
Earth/atmospheric/ocean sciences	9,000	7,000	7,000	3,000	1,000	3,000	2,000	3,000	4,000	2,000	3,000
Male	8,000	7,000	6,000	3,000	1,000	3,000	1,000	3,000	3,000	2,000	2,000
Female	4,000	2,000	2,000	1,000	1,000	2,000	1,000	1,000	2,000	1,000	2,000
Physics/astronomy	6,000	5,000	5,000	1,000	1,000	4,000	2,000	3,000	1,000	1,000	500
Male	5,000	5,000	5,000	1,000	500	2,000	2,000	1,000	1,000	1,000	500
Female	3,000	1,000	1,000	*	500	3,000	1,000	3,000	1,000	1,000	500
Other physical sciences	5,000	4,000	4,000	1,000	1,000	3,000	3,000	1,000	2,000	1,000	2,000
Male	4,000	3,000	3,000	1,000	S	2,000	2,000	500	2,000	1,000	2,000
Female	3,000	3,000	2,000	1,000	S	2,000	1,000	1,000	1,000	500	1,000
Social/related sciences	50,000	43,000	41,000	13,000	15,000	18,000	11,000	15,000	18,000	11,000	15,000
Male	34,000	31,000	31,000	10,000	9,000	9,000	6,000	7,000	14,000	9,000	12,000
Female	33,000	28,000	24,000	8,000	13,000	15,000	8,000	13,000	12,000	7,000	11,000
Economics	20,000	20,000	19,000	7,000	4,000	4,000	3,000	2,000	4,000	3,000	3,000
Male	19,000	18,000	17,000	6,000	3,000	3,000	3,000	2,000	4,000	2,000	3,000
Female	9,000	8,000	8,000	3,000	3,000	2,000	1,000	2,000	2,000	1,000	1,000
Political/related sciences	23,000	20,000	19,000	6,000	7,000	6,000	4,000	4,000	10,000	6,000	8,000
Male	19,000	18,000	18,000	4,000	5,000	4,000	2,000	3,000	9,000	6,000	7,000
Female	14,000	11,000	10,000	4,000	5,000	5,000	4,000	3,000	5,000	3,000	4,000
Psychology	28,000	21,000	18,000	8,000	10,000	13,000	6,000	12,000	12,000	6,000	10,000
Male	16,000	14,000	12,000	5,000	5,000	5,000	3,000	5,000	7,000	4,000	6,000
Female	22,000	18,000	15,000	6,000	9,000	12,000	5,000	10,000	9,000	5,000	8,000
Sociology/anthropology	20,000	17,000	15,000	5,000	9,000	8,000	5,000	7,000	10,000	5,000	10,000
Male	14,000	12,000	11,000	3,000	4,000	4,000	2,000	3,000	8,000	4,000	7,000
Female	15,000	13,000	10,000	4,000	8,000	7,000	4,000	6,000	7,000	4,000	6,000
Other social sciences	17,000	15,000	14,000	5,000	5,000	7,000	4,000	6,000	6,000	5,000	4,000
Male	12,000	11,000	10,000	4,000	3,000	4,000	3,000	4,000	5,000	4,000	3,000
Female	13,000	10,000	9,000	3,000	4,000	6,000	3,000	5,000	4,000	2,000	3,000
Engineering	28,000	26,000	25,000	6,000	5,000	6,000	4,000	4,000	8,000	6,000	6,000
Male	28,000	26,000	24,000	6,000	5,000	5,000	4,000	3,000	8,000	6,000	6,000
Female	9,000	8,000	7,000	3,000	2,000	3,000	2,000	2,000	4,000	2,000	3,000
Aerospace/related engineering	7,000	7,000	6,000	2,000	1,000	1,000	1,000	*	2,000	1,000	1,000
Male	7,000	6,000	6,000	1,000	1,000	500	500	S	1,000	1,000	1,000
Female	2,000	2,000	1,000	S	S	1,000	1,000	S	1,000	1,000	S
Chemical engineering	7,000	7,000	7,000	1,000	1,000	1,000	1,000	1,000	2,000	2,000	2,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	7,000	6,000	6,000	1,000	500	1,000	1,000	500	2,000	2,000	1,000
Female	3,000	2,000	2,000	*	1,000	1,000	500	1,000	2,000	1,000	1,000
Civil/architectural engineering	12,000	10,000	10,000	3,000	3,000	2,000	1,000	2,000	5,000	2,000	4,000
Male	11,000	10,000	10,000	3,000	3,000	2,000	1,000	1,000	4,000	2,000	4,000
Female	3,000	3,000	2,000	1,000	S	1,000	500	1,000	2,000	1,000	1,000
Electrical/computer engineering	13,000	13,000	12,000	3,000	2,000	3,000	2,000	1,000	4,000	3,000	3,000
Male	13,000	12,000	12,000	2,000	2,000	3,000	2,000	1,000	3,000	3,000	2,000
Female	5,000	5,000	4,000	2,000	1,000	1,000	500	1,000	2,000	1,000	1,000
Industrial engineering	9,000	8,000	8,000	1,000	2,000	1,000	500	1,000	2,000	2,000	2,000
Male	8,000	8,000	7,000	1,000	2,000	1,000	500	1,000	2,000	1,000	1,000
Female	3,000	3,000	3,000	500	500	1,000	500	1,000	2,000	1,000	2,000
Mechanical engineering	15,000	14,000	13,000	4,000	3,000	3,000	2,000	2,000	4,000	3,000	2,000
Male	15,000	13,000	13,000	4,000	2,000	2,000	2,000	1,000	4,000	3,000	2,000
Female	4,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000	500	500	*
Other engineering	12,000	10,000	10,000	3,000	1,000	3,000	2,000	2,000	4,000	3,000	2,000
Male	11,000	10,000	9,000	3,000	1,000	2,000	2,000	2,000	3,000	2,000	2,000
Female	3,000	3,000	3,000	1,000	500	1,000	1,000	1,000	2,000	2,000	1,000
S&E-related fields	39,000	36,000	34,000	16,000	20,000	24,000	17,000	17,000	15,000	9,000	13,000
Male	26,000	24,000	23,000	11,000	9,000	13,000	8,000	9,000	10,000	6,000	8,000
Female	29,000	29,000	25,000	10,000	18,000	19,000	14,000	14,000	12,000	6,000	11,000
Health	31,000	31,000	28,000	13,000	20,000	19,000	16,000	12,000	14,000	8,000	11,000
Male	18,000	17,000	16,000	8,000	8,000	9,000	8,000	4,000	8,000	5,000	5,000
Female	26,000	27,000	23,000	9,000	18,000	17,000	14,000	11,000	12,000	6,000	11,000
Science/mathematics teacher education	15,000	9,000	7,000	4,000	3,000	12,000	3,000	11,000	3,000	2,000	3,000
Male	10,000	7,000	5,000	3,000	3,000	7,000	2,000	7,000	2,000	1,000	2,000
Female	12,000	7,000	5,000	3,000	2,000	9,000	2,000	8,000	2,000	1,000	2,000
Technology/technical fields	14,000	13,000	12,000	5,000	2,000	3,000	2,000	2,000	4,000	3,000	3,000
Male	13,000	12,000	11,000	5,000	2,000	3,000	1,000	2,000	4,000	2,000	3,000
Female	5,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000	1,000	1,000	500
Other S&E-related fields	15,000	14,000	13,000	6,000	3,000	5,000	3,000	4,000	5,000	2,000	4,000
Male	12,000	12,000	11,000	5,000	3,000	3,000	2,000	2,000	5,000	2,000	4,000
Female	8,000	7,000	6,000	3,000	1,000	4,000	2,000	4,000	2,000	1,000	2,000
Non-S&E fields	45,000	37,000	32,000	15,000	15,000	27,000	11,000	23,000	16,000	10,000	14,000
Male	33,000	29,000	24,000	12,000	10,000	18,000	8,000	15,000	13,000	9,000	11,000
Female	31,000	25,000	21,000	8,000	10,000	18,000	6,000	17,000	11,000	5,000	10,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Arts/humanities	16,000	16,000	12,000	6,000	6,000	7,000	4,000	6,000	4,000	2,000	4,000
Male	12,000	11,000	9,000	4,000	5,000	5,000	4,000	4,000	3,000	2,000	2,000
Female	11,000	10,000	8,000	4,000	3,000	5,000	3,000	5,000	3,000	1,000	3,000
Education, except science/mathematics teacher education	25,000	12,000	10,000	3,000	5,000	21,000	6,000	20,000	6,000	3,000	5,000
Male	16,000	7,000	6,000	2,000	3,000	14,000	5,000	13,000	3,000	2,000	3,000
Female	19,000	10,000	7,000	3,000	5,000	15,000	3,000	15,000	5,000	2,000	5,000
Management/administration	28,000	24,000	22,000	7,000	7,000	8,000	6,000	6,000	8,000	6,000	6,000
Male	21,000	19,000	18,000	6,000	5,000	6,000	4,000	4,000	7,000	6,000	5,000
Female	15,000	13,000	12,000	4,000	6,000	5,000	4,000	3,000	5,000	3,000	4,000
Sales/marketing	10,000	10,000	10,000	3,000	2,000	2,000	2,000	1,000	2,000	2,000	1,000
Male	8,000	8,000	8,000	2,000	1,000	2,000	1,000	1,000	2,000	S	1,000
Female	5,000	5,000	4,000	2,000	2,000	1,000	1,000	S	S	S	S
Social services/related	13,000	11,000	6,000	3,000	8,000	6,000	3,000	5,000	5,000	2,000	5,000
Male	9,000	8,000	5,000	2,000	5,000	4,000	2,000	3,000	3,000	2,000	2,000
Female	9,000	7,000	4,000	3,000	5,000	4,000	2,000	4,000	4,000	500	4,000
Other non-S&E fields	23,000	20,000	17,000	9,000	6,000	8,000	5,000	5,000	12,000	6,000	11,000
Male	17,000	15,000	13,000	8,000	4,000	6,000	5,000	3,000	9,000	5,000	9,000
Female	16,000	12,000	10,000	4,000	4,000	5,000	3,000	4,000	8,000	3,000	7,000
Bachelor's degrees	69,000	61,000	62,000	20,000	26,000	30,000	20,000	24,000	30,000	16,000	24,000
Male	51,000	47,000	48,000	15,000	15,000	17,000	11,000	14,000	22,000	12,000	17,000
Female	45,000	41,000	36,000	13,000	21,000	25,000	15,000	20,000	17,000	9,000	16,000
S&E fields	60,000	54,000	54,000	15,000	16,000	21,000	14,000	17,000	24,000	13,000	19,000
Male	48,000	43,000	44,000	12,000	12,000	13,000	10,000	10,000	20,000	11,000	16,000
Female	35,000	32,000	28,000	9,000	14,000	17,000	8,000	14,000	13,000	7,000	12,000
Sciences	59,000	52,000	50,000	14,000	17,000	21,000	13,000	17,000	23,000	12,000	19,000
Male	44,000	40,000	39,000	12,000	11,000	12,000	10,000	10,000	18,000	10,000	15,000
Female	35,000	31,000	28,000	9,000	14,000	16,000	8,000	14,000	12,000	6,000	11,000
Biological/agricultural/environmental life sciences	26,000	24,000	21,000	7,000	8,000	11,000	8,000	8,000	11,000	7,000	8,000
Male	19,000	18,000	16,000	6,000	5,000	8,000	6,000	5,000	9,000	6,000	6,000
Female	18,000	15,000	13,000	4,000	6,000	8,000	5,000	6,000	6,000	3,000	5,000
Agricultural/food sciences	12,000	10,000	9,000	4,000	2,000	5,000	2,000	4,000	4,000	3,000	3,000
Male	9,000	7,000	7,000	3,000	S	4,000	2,000	4,000	4,000	3,000	2,000
Female	8,000	7,000	6,000	2,000	2,000	2,000	2,000	2,000	2,000	1,000	2,000
Biological sciences	24,000	21,000	18,000	6,000	8,000	10,000	7,000	7,000	8,000	5,000	6,000
Male	17,000	16,000	13,000	5,000	5,000	6,000	5,000	4,000	6,000	4,000	4,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	16,000	13,000	11,000	4,000	6,000	8,000	5,000	6,000	5,000	2,000	4,000
Environmental life sciences	7,000	6,000	6,000	2,000	1,000	2,000	2,000	1,000	5,000	2,000	4,000
Male	6,000	5,000	5,000	2,000	1,000	2,000	2,000	1,000	4,000	2,000	4,000
Female	4,000	4,000	4,000	S	1,000	1,000	1,000	1,000	2,000	1,000	2,000
Computer/mathematical sciences	21,000	21,000	20,000	4,000	5,000	8,000	4,000	8,000	6,000	4,000	4,000
Male	17,000	16,000	16,000	3,000	2,000	5,000	3,000	5,000	6,000	4,000	4,000
Female	15,000	13,000	11,000	3,000	5,000	6,000	2,000	6,000	3,000	2,000	3,000
Computer/information sciences	16,000	15,000	14,000	3,000	4,000	5,000	3,000	4,000	5,000	3,000	4,000
Male	13,000	12,000	12,000	2,000	2,000	4,000	3,000	3,000	5,000	3,000	3,000
Female	11,000	10,000	8,000	2,000	4,000	3,000	1,000	3,000	3,000	2,000	3,000
Mathematical sciences	15,000	13,000	12,000	3,000	3,000	7,000	2,000	7,000	4,000	3,000	2,000
Male	12,000	11,000	11,000	2,000	1,000	4,000	2,000	4,000	4,000	3,000	2,000
Female	9,000	7,000	7,000	2,000	2,000	6,000	2,000	6,000	1,000	1,000	1,000
Physical/related sciences	14,000	13,000	12,000	4,000	4,000	6,000	4,000	4,000	5,000	3,000	4,000
Male	13,000	12,000	11,000	3,000	3,000	4,000	3,000	3,000	4,000	3,000	3,000
Female	8,000	6,000	6,000	2,000	2,000	4,000	2,000	3,000	3,000	1,000	2,000
Chemistry, except biochemistry	11,000	10,000	8,000	3,000	3,000	4,000	2,000	3,000	3,000	2,000	3,000
Male	9,000	8,000	7,000	3,000	3,000	3,000	2,000	2,000	3,000	1,000	2,000
Female	6,000	5,000	5,000	1,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000
Earth/atmospheric/ocean sciences	8,000	6,000	6,000	2,000	1,000	2,000	1,000	2,000	3,000	2,000	3,000
Male	7,000	6,000	6,000	2,000	1,000	2,000	500	2,000	3,000	2,000	2,000
Female	3,000	2,000	2,000	1,000	500	1,000	1,000	1,000	2,000	1,000	2,000
Physics/astronomy	6,000	5,000	4,000	1,000	500	4,000	1,000	3,000	1,000	1,000	S
Male	5,000	5,000	4,000	1,000	500	1,000	1,000	1,000	1,000	1,000	S
Female	3,000	1,000	1,000	S	*	3,000	1,000	3,000	1,000	1,000	S
Other physical sciences	5,000	4,000	3,000	1,000	S	3,000	3,000	1,000	2,000	1,000	2,000
Male	3,000	3,000	2,000	S	S	2,000	S	S	2,000	1,000	2,000
Female	3,000	2,000	2,000	S	S	2,000	1,000	S	1,000	S	1,000
Social/related sciences	45,000	40,000	38,000	11,000	14,000	15,000	8,000	13,000	18,000	10,000	15,000
Male	32,000	29,000	29,000	9,000	9,000	7,000	5,000	6,000	13,000	8,000	12,000
Female	29,000	26,000	22,000	7,000	12,000	13,000	6,000	11,000	11,000	6,000	10,000
Economics	19,000	19,000	18,000	6,000	3,000	3,000	3,000	2,000	4,000	2,000	3,000
Male	18,000	17,000	16,000	5,000	3,000	3,000	3,000	1,000	4,000	2,000	3,000
Female	8,000	8,000	7,000	3,000	2,000	1,000	1,000	1,000	2,000	1,000	1,000
Political/related sciences	21,000	19,000	18,000	6,000	7,000	6,000	4,000	4,000	9,000	5,000	8,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	18,000	17,000	17,000	4,000	5,000	3,000	2,000	2,000	8,000	4,000	7,000
Female	12,000	10,000	9,000	4,000	5,000	5,000	3,000	3,000	4,000	2,000	4,000
Psychology	25,000	20,000	17,000	6,000	8,000	11,000	4,000	9,000	10,000	5,000	9,000
Male	15,000	13,000	11,000	4,000	5,000	4,000	2,000	4,000	6,000	3,000	5,000
Female	21,000	17,000	14,000	4,000	8,000	10,000	4,000	8,000	8,000	3,000	7,000
Sociology/anthropology	20,000	17,000	15,000	5,000	9,000	7,000	4,000	7,000	10,000	5,000	10,000
Male	13,000	12,000	11,000	3,000	4,000	3,000	2,000	2,000	8,000	3,000	7,000
Female	15,000	13,000	9,000	4,000	8,000	7,000	3,000	6,000	7,000	4,000	6,000
Other social sciences	16,000	14,000	13,000	5,000	4,000	6,000	3,000	6,000	5,000	4,000	4,000
Male	11,000	10,000	9,000	4,000	3,000	4,000	2,000	4,000	4,000	4,000	3,000
Female	12,000	10,000	9,000	3,000	3,000	5,000	2,000	5,000	3,000	2,000	3,000
Engineering	25,000	23,000	22,000	6,000	5,000	4,000	3,000	3,000	8,000	6,000	6,000
Male	24,000	23,000	21,000	6,000	5,000	4,000	3,000	3,000	8,000	5,000	5,000
Female	8,000	7,000	7,000	2,000	2,000	2,000	1,000	2,000	3,000	2,000	3,000
Aerospace/related engineering	7,000	6,000	6,000	1,000	1,000	1,000	1,000	S	2,000	1,000	S
Male	6,000	6,000	6,000	1,000	1,000	500	500	S	1,000	1,000	S
Female	2,000	2,000	1,000	S	S	1,000	1,000	S	1,000	1,000	S
Chemical engineering	7,000	6,000	6,000	1,000	1,000	1,000	1,000	1,000	2,000	2,000	1,000
Male	6,000	6,000	6,000	1,000	*	1,000	1,000	S	2,000	2,000	1,000
Female	2,000	2,000	2,000	*	1,000	1,000	500	1,000	1,000	1,000	500
Civil/architectural engineering	11,000	10,000	9,000	3,000	3,000	2,000	1,000	1,000	4,000	2,000	4,000
Male	11,000	9,000	9,000	3,000	3,000	2,000	1,000	1,000	4,000	2,000	4,000
Female	3,000	2,000	2,000	S	S	500	500	S	1,000	500	1,000
Electrical/computer engineering	11,000	11,000	11,000	2,000	2,000	2,000	2,000	1,000	3,000	3,000	3,000
Male	11,000	11,000	10,000	2,000	1,000	2,000	2,000	1,000	3,000	3,000	2,000
Female	5,000	4,000	3,000	2,000	1,000	1,000	*	1,000	2,000	1,000	1,000
Industrial engineering	8,000	8,000	7,000	1,000	2,000	1,000	500	1,000	2,000	1,000	2,000
Male	8,000	8,000	7,000	1,000	2,000	1,000	*	S	1,000	1,000	500
Female	3,000	3,000	3,000	500	*	1,000	*	S	2,000	*	S
Mechanical engineering	13,000	12,000	12,000	4,000	3,000	2,000	1,000	2,000	4,000	3,000	2,000
Male	13,000	12,000	11,000	4,000	2,000	2,000	1,000	1,000	4,000	3,000	2,000
Female	4,000	4,000	4,000	S	1,000	2,000	1,000	1,000	500	500	*
Other engineering	10,000	9,000	9,000	3,000	1,000	2,000	1,000	2,000	3,000	3,000	2,000
Male	10,000	9,000	9,000	3,000	1,000	2,000	1,000	1,000	3,000	2,000	2,000
Female	3,000	2,000	2,000	S	S	1,000	1,000	S	2,000	2,000	1,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
S&E-related fields	36,000	33,000	30,000	11,000	17,000	19,000	13,000	14,000	13,000	7,000	11,000
Male	21,000	20,000	18,000	7,000	7,000	7,000	5,000	6,000	8,000	5,000	6,000
Female	28,000	26,000	22,000	7,000	15,000	17,000	12,000	12,000	10,000	5,000	9,000
Health	29,000	28,000	24,000	7,000	16,000	15,000	12,000	9,000	12,000	6,000	10,000
Male	12,000	12,000	11,000	2,000	6,000	5,000	4,000	3,000	6,000	4,000	4,000
Female	25,000	25,000	21,000	7,000	15,000	14,000	12,000	9,000	10,000	5,000	9,000
Science/mathematics teacher education	13,000	8,000	7,000	3,000	3,000	9,000	S	9,000	2,000	2,000	2,000
Male	8,000	6,000	5,000	2,000	3,000	5,000	S	5,000	2,000	1,000	2,000
Female	9,000	6,000	4,000	3,000	1,000	7,000	S	7,000	1,000	1,000	500
Technology/technical fields	13,000	12,000	11,000	5,000	2,000	3,000	2,000	2,000	4,000	2,000	3,000
Male	12,000	12,000	10,000	5,000	2,000	2,000	1,000	2,000	3,000	2,000	3,000
Female	5,000	4,000	4,000	1,000	1,000	1,000	S	1,000	1,000	1,000	500
Other S&E-related fields	13,000	12,000	11,000	6,000	2,000	4,000	2,000	3,000	4,000	2,000	4,000
Male	11,000	10,000	9,000	5,000	1,000	2,000	1,000	1,000	4,000	2,000	3,000
Female	6,000	6,000	5,000	2,000	S	3,000	S	S	1,000	1,000	1,000
Non-S&E degrees	29,000	25,000	21,000	8,000	10,000	12,000	5,000	11,000	9,000	5,000	8,000
Male	20,000	17,000	15,000	5,000	7,000	9,000	4,000	8,000	7,000	4,000	5,000
Female	21,000	17,000	15,000	5,000	6,000	10,000	4,000	9,000	7,000	3,000	6,000
Arts/humanities	15,000	13,000	11,000	4,000	5,000	5,000	3,000	4,000	4,000	2,000	3,000
Male	10,000	9,000	8,000	2,000	5,000	3,000	2,000	3,000	3,000	1,000	2,000
Female	10,000	9,000	8,000	4,000	2,000	4,000	2,000	3,000	2,000	1,000	2,000
Education, except science/mathematics teacher education	11,000	8,000	7,000	2,000	3,000	8,000	2,000	8,000	4,000	2,000	4,000
Male	8,000	4,000	4,000	S	2,000	6,000	S	6,000	1,000	1,000	1,000
Female	10,000	7,000	6,000	2,000	2,000	7,000	2,000	7,000	4,000	2,000	4,000
Management/administration	18,000	17,000	15,000	5,000	6,000	5,000	3,000	5,000	6,000	3,000	4,000
Male	14,000	13,000	12,000	4,000	4,000	5,000	3,000	3,000	5,000	3,000	3,000
Female	11,000	10,000	8,000	2,000	4,000	3,000	2,000	3,000	3,000	1,000	3,000
Sales/marketing	5,000	5,000	4,000	S	S	1,000	1,000	1,000	2,000	S	S
Male	4,000	3,000	3,000	S	S	1,000	S	1,000	S	S	S
Female	4,000	4,000	3,000	S	S	S	S	S	S	S	S
Social services/related	5,000	4,000	4,000	1,000	2,000	1,000	1,000	S	2,000	S	1,000
Male	4,000	3,000	3,000	S	1,000	1,000	S	S	1,000	S	500
Female	3,000	3,000	2,000	S	2,000	S	S	S	1,000	S	1,000
Other non-S&E fields	11,000	9,000	8,000	2,000	4,000	5,000	3,000	4,000	4,000	2,000	3,000
Male	7,000	6,000	5,000	2,000	2,000	2,000	1,000	2,000	3,000	1,000	3,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	8,000	6,000	6,000	1,000	3,000	4,000	2,000	3,000	3,000	1,000	2,000
Master's degrees	47,000	38,000	33,000	12,000	16,000	26,000	13,000	22,000	19,000	11,000	15,000
Male	33,000	28,000	27,000	10,000	8,000	14,000	9,000	12,000	13,000	8,000	10,000
Female	32,000	24,000	19,000	8,000	13,000	21,000	10,000	18,000	13,000	7,000	11,000
S&E fields	28,000	23,000	20,000	8,000	8,000	13,000	8,000	10,000	12,000	8,000	8,000
Male	22,000	18,000	17,000	6,000	4,000	9,000	6,000	6,000	8,000	6,000	6,000
Female	17,000	13,000	10,000	5,000	6,000	10,000	6,000	8,000	8,000	5,000	6,000
Sciences	25,000	20,000	17,000	8,000	8,000	12,000	8,000	9,000	11,000	7,000	7,000
Male	18,000	15,000	14,000	6,000	4,000	8,000	5,000	6,000	7,000	5,000	5,000
Female	16,000	12,000	10,000	5,000	6,000	9,000	6,000	7,000	7,000	5,000	5,000
Biological/agricultural/environmental life sciences	9,000	8,000	6,000	3,000	3,000	5,000	4,000	3,000	4,000	2,000	3,000
Male	7,000	5,000	4,000	2,000	1,000	4,000	3,000	2,000	3,000	2,000	2,000
Female	6,000	5,000	4,000	1,000	3,000	3,000	2,000	2,000	3,000	1,000	2,000
Agricultural/food sciences	4,000	3,000	3,000	1,000	1,000	2,000	2,000	1,000	1,000	1,000	500
Male	3,000	2,000	2,000	1,000	S	2,000	1,000	500	1,000	500	500
Female	3,000	3,000	3,000	S	1,000	1,000	1,000	500	1,000	1,000	S
Biological sciences	7,000	6,000	4,000	2,000	3,000	4,000	3,000	2,000	3,000	1,000	3,000
Male	5,000	4,000	3,000	2,000	1,000	3,000	3,000	2,000	2,000	1,000	2,000
Female	5,000	4,000	3,000	1,000	2,000	3,000	2,000	2,000	3,000	1,000	2,000
Environmental life sciences	4,000	3,000	3,000	S	1,000	1,000	1,000	1,000	2,000	2,000	1,000
Male	3,000	3,000	2,000	S	S	1,000	1,000	S	2,000	1,000	1,000
Female	2,000	2,000	1,000	S	1,000	1,000	500	S	1,000	1,000	S
Computer/mathematical sciences	11,000	10,000	9,000	3,000	1,000	5,000	4,000	3,000	4,000	3,000	2,000
Male	9,000	8,000	8,000	2,000	1,000	3,000	2,000	2,000	3,000	3,000	2,000
Female	7,000	6,000	5,000	2,000	1,000	4,000	3,000	2,000	2,000	1,000	1,000
Computer/information sciences	10,000	9,000	9,000	2,000	1,000	4,000	3,000	2,000	3,000	3,000	2,000
Male	9,000	8,000	7,000	2,000	1,000	2,000	2,000	2,000	3,000	3,000	1,000
Female	6,000	5,000	5,000	1,000	1,000	3,000	3,000	2,000	1,000	1,000	1,000
Mathematical sciences	5,000	5,000	4,000	2,000	1,000	3,000	2,000	2,000	1,000	1,000	1,000
Male	4,000	4,000	3,000	1,000	500	2,000	2,000	2,000	1,000	1,000	1,000
Female	4,000	3,000	2,000	1,000	500	2,000	1,000	1,000	1,000	1,000	500
Physical/related sciences	7,000	6,000	5,000	2,000	1,000	3,000	2,000	3,000	2,000	2,000	1,000
Male	6,000	5,000	4,000	2,000	500	3,000	1,000	3,000	2,000	1,000	1,000
Female	3,000	3,000	2,000	1,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000
Chemistry, except biochemistry	4,000	4,000	4,000	500	500	2,000	1,000	2,000	1,000	1,000	1,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	3,000	3,000	3,000	S	S	2,000	500	2,000	1,000	500	500
Female	2,000	2,000	2,000	S	S	1,000	1,000	1,000	1,000	500	500
Earth/atmospheric/ocean sciences	4,000	3,000	2,000	2,000	1,000	2,000	1,000	2,000	2,000	1,000	1,000
Male	4,000	3,000	2,000	2,000	S	2,000	1,000	2,000	2,000	1,000	1,000
Female	2,000	1,000	1,000	S	1,000	1,000	1,000	1,000	1,000	500	1,000
Physics/astronomy	3,000	3,000	2,000	1,000	500	2,000	1,000	1,000	500	500	S
Male	3,000	3,000	2,000	S	500	2,000	1,000	1,000	500	500	S
Female	1,000	1,000	500	S	S	500	500	*	S	S	S
Other physical sciences	1,000	1,000	1,000	S	S	500	S	500	1,000	S	S
Male	1,000	1,000	1,000	S	S	500	S	S	S	S	S
Female	1,000	S	S	S	S	S	S	S	S	S	S
Social/related sciences	19,000	15,000	12,000	6,000	7,000	9,000	6,000	8,000	8,000	6,000	6,000
Male	13,000	11,000	9,000	4,000	4,000	5,000	3,000	4,000	5,000	4,000	4,000
Female	13,000	10,000	7,000	4,000	5,000	7,000	4,000	6,000	6,000	4,000	4,000
Economics	6,000	6,000	5,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	1,000
Male	6,000	5,000	5,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000
Female	3,000	3,000	2,000	S	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Political/related sciences	8,000	6,000	5,000	2,000	2,000	2,000	2,000	1,000	5,000	4,000	2,000
Male	6,000	4,000	4,000	1,000	1,000	2,000	1,000	1,000	4,000	3,000	2,000
Female	5,000	4,000	4,000	1,000	1,000	2,000	2,000	500	2,000	2,000	1,000
Psychology	14,000	10,000	8,000	5,000	5,000	8,000	3,000	7,000	6,000	3,000	5,000
Male	8,000	7,000	6,000	3,000	3,000	4,000	1,000	3,000	3,000	1,000	3,000
Female	10,000	7,000	5,000	4,000	4,000	7,000	3,000	6,000	5,000	3,000	4,000
Sociology/anthropology	5,000	4,000	3,000	1,000	1,000	3,000	3,000	2,000	2,000	1,000	2,000
Male	3,000	2,000	2,000	S	1,000	2,000	1,000	1,000	2,000	1,000	1,000
Female	4,000	3,000	3,000	1,000	1,000	2,000	2,000	1,000	2,000	1,000	1,000
Other social sciences	6,000	5,000	3,000	2,000	3,000	4,000	3,000	2,000	3,000	2,000	2,000
Male	4,000	3,000	2,000	2,000	1,000	2,000	2,000	1,000	2,000	2,000	1,000
Female	5,000	4,000	1,000	1,000	3,000	3,000	2,000	2,000	1,000	1,000	1,000
Engineering	12,000	11,000	10,000	3,000	1,000	3,000	2,000	2,000	4,000	3,000	3,000
Male	12,000	10,000	10,000	2,000	1,000	3,000	2,000	1,000	4,000	3,000	3,000
Female	4,000	3,000	3,000	2,000	500	1,000	1,000	1,000	2,000	1,000	2,000
Aerospace/related engineering	2,000	2,000	1,000	S	S	500	500	S	1,000	1,000	S
Male	2,000	2,000	1,000	S	S	500	500	S	1,000	1,000	S
Female	500	500	500	S	S	*	*	S	S	S	S

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Chemical engineering	3,000	3,000	3,000	S	S	1,000	500	S	1,000	500	1,000
Male	3,000	3,000	3,000	S	S	500	500	S	500	*	S
Female	1,000	1,000	1,000	S	S	1,000	*	S	1,000	S	S
Civil/architectural engineering	5,000	4,000	4,000	1,000	1,000	1,000	1,000	1,000	2,000	1,000	2,000
Male	5,000	4,000	4,000	1,000	S	1,000	1,000	S	2,000	1,000	2,000
Female	2,000	1,000	1,000	S	S	1,000	500	S	1,000	500	1,000
Electrical/computer engineering	6,000	6,000	6,000	2,000	1,000	2,000	2,000	500	1,000	1,000	1,000
Male	6,000	6,000	6,000	2,000	1,000	2,000	2,000	500	1,000	1,000	1,000
Female	2,000	2,000	2,000	1,000	500	500	500	S	500	500	S
Industrial engineering	2,000	2,000	2,000	S	S	1,000	500	1,000	1,000	1,000	1,000
Male	2,000	2,000	2,000	S	S	1,000	500	S	1,000	1,000	S
Female	1,000	1,000	1,000	S	S	*	*	S	S	S	S
Mechanical engineering	5,000	5,000	5,000	500	500	1,000	1,000	500	1,000	2,000	1,000
Male	5,000	4,000	5,000	500	500	1,000	1,000	S	1,000	2,000	1,000
Female	1,000	1,000	1,000	S	S	500	*	S	S	S	S
Other engineering	5,000	5,000	5,000	2,000	500	1,000	1,000	1,000	2,000	1,000	1,000
Male	5,000	5,000	4,000	1,000	500	1,000	1,000	1,000	2,000	1,000	1,000
Female	2,000	1,000	1,000	S	S	1,000	1,000	1,000	1,000	500	1,000
S&E-related fields	20,000	18,000	14,000	6,000	9,000	12,000	7,000	10,000	8,000	4,000	7,000
Male	12,000	10,000	9,000	4,000	4,000	7,000	3,000	6,000	5,000	3,000	4,000
Female	17,000	14,000	11,000	5,000	8,000	11,000	6,000	9,000	6,000	3,000	6,000
Health	16,000	15,000	11,000	6,000	9,000	10,000	6,000	7,000	7,000	4,000	6,000
Male	8,000	7,000	6,000	2,000	3,000	3,000	2,000	2,000	4,000	2,000	3,000
Female	15,000	13,000	10,000	5,000	8,000	9,000	6,000	7,000	6,000	3,000	5,000
Science/mathematics teacher education	8,000	4,000	3,000	2,000	1,000	7,000	2,000	7,000	2,000	S	2,000
Male	6,000	3,000	2,000	2,000	S	5,000	1,000	5,000	1,000	S	S
Female	7,000	3,000	2,000	S	1,000	6,000	2,000	6,000	2,000	S	2,000
Technology/technical fields	4,000	4,000	4,000	S	S	1,000	500	1,000	2,000	1,000	1,000
Male	3,000	3,000	3,000	S	S	1,000	500	1,000	1,000	1,000	1,000
Female	2,000	2,000	2,000	S	S	S	S	S	S	S	S
Other S&E-related fields	7,000	7,000	6,000	2,000	3,000	2,000	2,000	2,000	3,000	500	3,000
Male	6,000	6,000	6,000	2,000	S	2,000	1,000	S	2,000	S	2,000
Female	3,000	3,000	2,000	1,000	1,000	2,000	1,000	S	2,000	S	2,000
Non-S&E fields	34,000	25,000	23,000	8,000	9,000	21,000	8,000	19,000	11,000	7,000	10,000
Male	26,000	21,000	20,000	7,000	6,000	13,000	6,000	11,000	9,000	6,000	7,000

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	21,000	14,000	12,000	5,000	7,000	15,000	5,000	14,000	8,000	3,000	8,000
Arts/humanities	9,000	7,000	5,000	4,000	1,000	5,000	3,000	4,000	2,000	1,000	2,000
Male	7,000	5,000	3,000	4,000	S	4,000	3,000	3,000	1,000	S	S
Female	5,000	4,000	3,000	2,000	S	3,000	1,000	3,000	2,000	S	2,000
Education, except science/mathematics teacher education	21,000	9,000	7,000	3,000	4,000	18,000	4,000	17,000	4,000	2,000	3,000
Male	12,000	6,000	5,000	2,000	2,000	10,000	3,000	10,000	3,000	2,000	2,000
Female	16,000	7,000	4,000	2,000	4,000	14,000	3,000	14,000	3,000	1,000	2,000
Management/administration	20,000	18,000	18,000	5,000	5,000	5,000	5,000	4,000	7,000	6,000	4,000
Male	17,000	16,000	16,000	5,000	3,000	4,000	3,000	3,000	6,000	5,000	4,000
Female	11,000	10,000	9,000	3,000	4,000	4,000	3,000	2,000	3,000	2,000	2,000
Sales/marketing	8,000	8,000	8,000	2,000	1,000	2,000	1,000	1,000	1,000	S	1,000
Male	7,000	7,000	7,000	2,000	1,000	1,000	S	S	1,000	S	1,000
Female	3,000	3,000	3,000	1,000	S	1,000	S	S	S	S	S
Social services/related	11,000	9,000	5,000	3,000	7,000	5,000	2,000	4,000	5,000	1,000	5,000
Male	7,000	6,000	4,000	2,000	5,000	3,000	1,000	2,000	2,000	1,000	2,000
Female	9,000	7,000	4,000	2,000	5,000	4,000	1,000	4,000	4,000	S	4,000
Other non-S&E fields	12,000	8,000	7,000	2,000	3,000	5,000	4,000	3,000	7,000	4,000	7,000
Male	10,000	6,000	5,000	2,000	2,000	5,000	4,000	2,000	5,000	3,000	5,000
Female	8,000	5,000	4,000	1,000	2,000	3,000	2,000	3,000	5,000	2,000	5,000
Doctorate degrees	11,000	7,000	6,000	2,000	3,000	9,000	7,000	5,000	3,000	2,000	2,000
Male	8,000	6,000	5,000	2,000	2,000	6,000	5,000	4,000	2,000	2,000	1,000
Female	6,000	4,000	3,000	1,000	2,000	5,000	4,000	3,000	2,000	1,000	2,000
S&E fields	5,000	4,000	4,000	1,000	1,000	4,000	4,000	1,000	2,000	2,000	1,000
Male	4,000	3,000	3,000	1,000	1,000	3,000	3,000	1,000	1,000	1,000	1,000
Female	3,000	2,000	1,000	1,000	1,000	3,000	3,000	1,000	1,000	1,000	500
Sciences	5,000	3,000	3,000	1,000	1,000	4,000	4,000	1,000	2,000	2,000	1,000
Male	4,000	3,000	3,000	1,000	1,000	3,000	3,000	1,000	1,000	1,000	1,000
Female	3,000	2,000	1,000	1,000	1,000	3,000	3,000	1,000	1,000	1,000	500
Biological/agricultural/environmental life sciences	3,000	2,000	2,000	1,000	1,000	2,000	2,000	1,000	1,000	1,000	500
Male	2,000	2,000	1,000	1,000	1,000	2,000	2,000	500	1,000	1,000	500
Female	2,000	1,000	1,000	500	1,000	1,000	1,000	500	1,000	1,000	500
Agricultural/food sciences	1,000	1,000	1,000	500	500	1,000	1,000	*	500	500	*
Male	1,000	1,000	1,000	500	500	500	500	*	500	500	*
Female	500	500	500	*	S	500	500	*	*	*	*
Biological sciences	3,000	2,000	1,000	1,000	1,000	2,000	2,000	500	1,000	1,000	500

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	2,000	1,000	1,000	1,000	1,000	2,000	2,000	500	1,000	1,000	500
Female	2,000	1,000	1,000	500	1,000	1,000	1,000	500	1,000	1,000	500
Environmental life sciences	500	500	500	*	*	500	500	*	500	500	*
Male	500	500	500	*	*	500	500	*	500	500	*
Female	500	*	*	S	*	500	500	S	*	*	S
Computer/mathematical sciences	2,000	1,000	1,000	500	500	2,000	2,000	500	500	500	500
Male	1,000	1,000	1,000	500	500	1,000	1,000	500	500	500	*
Female	2,000	500	500	*	*	2,000	2,000	*	500	*	*
Computer/information sciences	1,000	1,000	1,000	*	*	1,000	1,000	*	500	*	*
Male	1,000	1,000	1,000	*	*	1,000	1,000	*	*	*	S
Female	500	500	500	S	*	500	500	*	*	S	S
Mathematical sciences	2,000	1,000	1,000	500	500	2,000	2,000	500	500	500	*
Male	1,000	1,000	1,000	500	500	1,000	1,000	500	500	500	*
Female	2,000	500	500	*	*	2,000	2,000	*	*	*	S
Physical/related sciences	2,000	2,000	2,000	1,000	500	1,000	1,000	500	1,000	1,000	500
Male	2,000	2,000	2,000	1,000	500	1,000	1,000	500	1,000	1,000	500
Female	1,000	1,000	1,000	500	500	1,000	500	500	500	500	*
Chemistry, except biochemistry	2,000	1,000	1,000	500	500	1,000	1,000	500	1,000	500	500
Male	1,000	1,000	1,000	500	500	1,000	1,000	500	500	500	500
Female	1,000	500	500	*	*	500	500	500	500	500	*
Earth/atmospheric/ocean sciences	1,000	500	500	500	500	1,000	1,000	500	500	500	500
Male	1,000	500	500	500	*	1,000	1,000	*	500	500	500
Female	500	500	500	S	S	500	500	*	*	*	S
Physics/astronomy	1,000	1,000	1,000	500	500	1,000	1,000	500	500	500	500
Male	1,000	1,000	1,000	500	500	1,000	1,000	500	500	500	*
Female	500	500	500	S	*	500	500	*	500	*	S
Other physical sciences	1,000	1,000	1,000	*	*	1,000	1,000	S	*	*	S
Male	1,000	1,000	1,000	*	S	1,000	1,000	S	*	*	S
Female	500	*	S	S	S	*	*	S	*	*	S
Social/related sciences	2,000	2,000	1,000	1,000	1,000	2,000	2,000	1,000	1,000	1,000	500
Male	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	1,000	500	500
Female	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500	500	500
Economics	1,000	500	500	500	500	1,000	1,000	*	500	500	500
Male	1,000	500	500	500	500	1,000	1,000	*	500	500	*
Female	500	500	500	S	*	500	500	S	500	500	*

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Political/related sciences	1,000	1,000	500	500	500	1,000	1,000	500	500	500	500
Male	1,000	1,000	500	500	500	1,000	500	500	500	500	500
Female	500	500	500	*	*	500	500	*	*	*	*
Psychology	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500	500	500
Male	1,000	1,000	500	500	500	1,000	1,000	500	500	500	500
Female	1,000	1,000	1,000	1,000	500	1,000	1,000	500	500	500	500
Sociology/anthropology	1,000	1,000	500	500	1,000	1,000	1,000	500	500	500	500
Male	500	500	500	*	500	500	500	500	500	500	500
Female	1,000	1,000	500	*	1,000	1,000	1,000	500	500	500	*
Other social sciences	1,000	500	500	500	500	1,000	1,000	500	500	500	500
Male	1,000	500	500	*	*	1,000	1,000	500	500	*	*
Female	500	500	500	*	*	500	500	500	*	*	*
Engineering	2,000	2,000	2,000	1,000	500	1,000	1,000	500	1,000	1,000	500
Male	2,000	2,000	2,000	1,000	500	1,000	1,000	500	1,000	500	500
Female	500	500	500	*	*	500	500	*	500	500	*
Aerospace/related engineering	1,000	1,000	1,000	*	*	500	500	S	500	500	S
Male	1,000	1,000	1,000	*	*	500	500	S	500	500	S
Female	*	S	S	S	S	*	*	S	S	S	S
Chemical engineering	1,000	1,000	1,000	500	500	500	500	*	500	500	500
Male	1,000	1,000	1,000	500	500	500	500	*	500	500	500
Female	500	500	500	S	S	*	*	S	*	*	S
Civil/architectural engineering	1,000	1,000	1,000	*	*	500	500	S	500	500	*
Male	1,000	1,000	1,000	*	*	500	500	S	500	500	*
Female	500	*	*	S	S	*	*	S	*	S	S
Electrical/computer engineering	1,000	1,000	1,000	500	500	1,000	1,000	*	500	500	*
Male	1,000	1,000	1,000	500	500	1,000	1,000	*	500	500	*
Female	500	500	500	S	S	500	500	*	*	*	S
Industrial engineering	500	500	500	S	S	500	500	S	*	*	S
Male	500	500	500	S	S	500	500	S	S	S	S
Female	500	*	*	S	S	500	500	S	*	*	S
Mechanical engineering	1,000	500	500	500	*	500	500	*	500	500	S
Male	1,000	500	500	500	*	500	500	*	500	500	S
Female	500	*	*	S	S	*	*	S	S	S	S
Other engineering	1,000	1,000	1,000	500	500	1,000	1,000	500	500	500	500
Male	1,000	1,000	1,000	500	500	500	500	*	500	500	500

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	500	500	500	S	*	500	500	S	*	*	S
S&E-related fields	4,000	3,000	3,000	1,000	1,000	2,000	2,000	1,000	2,000	500	1,000
Male	4,000	3,000	3,000	500	1,000	2,000	2,000	500	500	500	500
Female	3,000	1,000	1,000	1,000	1,000	2,000	1,000	1,000	1,000	500	1,000
Health	3,000	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000	500	1,000
Male	1,000	1,000	1,000	500	1,000	1,000	1,000	*	500	500	500
Female	2,000	1,000	1,000	500	1,000	1,000	1,000	*	1,000	500	1,000
Science/mathematics teacher education	2,000	S	S	S	S	2,000	2,000	1,000	S	S	S
Male	2,000	S	S	S	S	2,000	2,000	S	S	S	S
Female	1,000	S	S	S	S	1,000	1,000	1,000	S	S	S
Technology/technical fields	1,000	1,000	1,000	S	S	S	S	S	S	S	S
Male	1,000	1,000	1,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Other S&E-related fields	3,000	3,000	S	S	S	1,000	1,000	S	S	S	S
Male	3,000	S	S	S	S	500	500	S	S	S	S
Female	1,000	S	S	S	S	S	S	S	S	S	S
Non-S&E fields	8,000	4,000	3,000	1,000	3,000	7,000	5,000	4,000	2,000	1,000	1,000
Male	6,000	3,000	2,000	1,000	2,000	5,000	4,000	3,000	1,000	1,000	1,000
Female	4,000	3,000	2,000	1,000	2,000	3,000	2,000	3,000	1,000	S	1,000
Arts/humanities	2,000	1,000	1,000	S	S	2,000	2,000	1,000	S	S	S
Male	2,000	1,000	500	S	S	1,000	1,000	1,000	S	S	S
Female	1,000	1,000	S	S	S	1,000	1,000	500	S	S	S
Education, except science/mathematics teacher education	6,000	2,000	1,000	1,000	2,000	6,000	4,000	4,000	1,000	S	1,000
Male	5,000	2,000	S	S	1,000	5,000	4,000	3,000	S	S	S
Female	3,000	1,000	1,000	1,000	1,000	3,000	2,000	3,000	S	S	S
Management/administration	2,000	2,000	1,000	S	S	1,000	1,000	S	S	S	S
Male	2,000	2,000	1,000	S	S	1,000	1,000	S	S	S	S
Female	1,000	S	S	S	S	1,000	1,000	S	S	S	S
Sales/marketing	500	S	S	S	S	500	500	S	S	S	S
Male	500	S	S	S	S	500	500	S	S	S	S
Female	500	S	S	S	S	500	500	S	S	S	S
Social services/related	3,000	2,000	1,000	S	2,000	2,000	1,000	1,000	S	S	S
Male	3,000	2,000	S	S	2,000	2,000	1,000	S	S	S	S
Female	1,000	1,000	S	S	S	1,000	1,000	S	S	S	S

TABLE A-12. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Other non-S&E fields	3,000	3,000	2,000	S	2,000	1,000	1,000	1,000	1,000	S	1,000
Male	2,000	2,000	2,000	S	S	1,000	1,000	S	1,000	S	S
Female	2,000	2,000	1,000	S	S	1,000	1,000	S	S	S	S

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
All degree levels and fields[a]	82,000	50,000	40,000	74,000	40,000	54,000
Business/industry	74,000	43,000	22,000	63,000	33,000	51,000
4-year college/university	26,000	15,000	14,000	17,000	8,000	18,000
Other educational institution	33,000	13,000	30,000	20,000	11,000	16,000
Government	34,000	17,000	12,000	28,000	15,000	22,000
S&E fields	67,000	36,000	23,000	60,000	27,000	41,000
Business/industry	59,000	29,000	14,000	53,000	24,000	35,000
4-year college/university	17,000	10,000	7,000	12,000	7,000	9,000
Other educational institution	20,000	8,000	18,000	12,000	6,000	10,000
Government	26,000	13,000	7,000	22,000	11,000	16,000
Sciences	64,000	32,000	22,000	57,000	26,000	39,000
Business/industry	55,000	26,000	13,000	49,000	23,000	34,000
4-year college/university	16,000	10,000	6,000	12,000	6,000	9,000
Other educational institution	20,000	8,000	17,000	12,000	6,000	9,000
Government	24,000	12,000	7,000	21,000	10,000	15,000
Biological/agricultural/environmental life sciences	27,000	14,000	12,000	22,000	10,000	18,000
Business/industry	25,000	11,000	6,000	20,000	8,000	16,000
4-year college/university	9,000	7,000	4,000	7,000	3,000	5,000
Other educational institution	9,000	3,000	8,000	5,000	2,000	5,000
Government	11,000	6,000	3,000	8,000	4,000	7,000
Agricultural/food sciences	12,000	5,000	5,000	11,000	3,000	8,000
Business/industry	10,000	4,000	2,000	10,000	2,000	7,000
4-year college/university	3,000	2,000	1,000	2,000	1,000	2,000
Other educational institution	4,000	1,000	4,000	2,000	S	3,000
Government	5,000	2,000	1,000	4,000	2,000	3,000
Biological sciences	25,000	12,000	11,000	18,000	9,000	16,000
Business/industry	21,000	10,000	6,000	16,000	8,000	14,000
4-year college/university	8,000	6,000	4,000	6,000	3,000	5,000
Other educational institution	8,000	2,000	7,000	5,000	2,000	4,000
Government	9,000	4,000	3,000	6,000	3,000	6,000
Environmental life sciences	9,000	4,000	2,000	8,000	3,000	5,000
Business/industry	7,000	4,000	1,000	7,000	2,000	5,000
4-year college/university	2,000	1,000	1,000	2,000	1,000	1,000
Other educational institution	1,000	1,000	1,000	1,000	S	S
Government	5,000	3,000	1,000	4,000	2,000	3,000
Computer/mathematical sciences	24,000	13,000	9,000	21,000	15,000	11,000
Business/industry	23,000	12,000	3,000	20,000	15,000	9,000
4-year college/university	6,000	4,000	3,000	4,000	4,000	2,000
Other educational institution	8,000	4,000	7,000	6,000	3,000	2,000
Government	7,000	4,000	1,000	6,000	5,000	4,000
Computer/information sciences	18,000	12,000	4,000	15,000	14,000	7,000
Business/industry	17,000	10,000	2,000	14,000	13,000	6,000
4-year college/university	5,000	3,000	1,000	3,000	3,000	1,000
Other educational institution	5,000	3,000	3,000	3,000	3,000	1,000
Government	6,000	3,000	1,000	5,000	5,000	3,000
Mathematical sciences	16,000	8,000	8,000	13,000	7,000	7,000
Business/industry	14,000	7,000	3,000	12,000	7,000	7,000
4-year college/university	4,000	3,000	3,000	3,000	2,000	1,000
Other educational institution	7,000	3,000	7,000	5,000	1,000	2,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	4,000	3,000	1,000	3,000	2,000	2,000
Physical/related sciences	16,000	10,000	6,000	12,000	7,000	9,000
Business/industry	14,000	9,000	3,000	11,000	5,000	8,000
4-year college/university	5,000	3,000	2,000	3,000	2,000	2,000
Other educational institution	5,000	2,000	5,000	3,000	3,000	2,000
Government	5,000	3,000	1,000	4,000	2,000	3,000
Chemistry, except biochemistry	12,000	7,000	4,000	10,000	3,000	7,000
Business/industry	11,000	6,000	3,000	9,000	3,000	6,000
4-year college/university	3,000	2,000	2,000	2,000	1,000	2,000
Other educational institution	4,000	2,000	3,000	2,000	1,000	1,000
Government	3,000	2,000	1,000	3,000	1,000	2,000
Earth/atmospheric/ocean sciences	9,000	5,000	3,000	7,000	4,000	5,000
Business/industry	7,000	4,000	1,000	6,000	3,000	4,000
4-year college/university	2,000	1,000	1,000	1,000	500	1,000
Other educational institution	3,000	500	2,000	2,000	500	2,000
Government	4,000	2,000	500	3,000	2,000	2,000
Physics/astronomy	6,000	4,000	3,000	5,000	4,000	3,000
Business/industry	5,000	4,000	500	4,000	3,000	3,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	1,000
Other educational institution	3,000	1,000	3,000	1,000	3,000	1,000
Government	1,000	1,000	S	1,000	500	1,000
Other physical sciences	5,000	3,000	2,000	5,000	2,000	3,000
Business/industry	4,000	2,000	1,000	3,000	1,000	2,000
4-year college/university	3,000	1,000	*	2,000	S	S
Other educational institution	1,000	S	1,000	1,000	S	S
Government	2,000	1,000	1,000	2,000	1,000	1,000
Social/related sciences	50,000	20,000	18,000	47,000	17,000	31,000
Business/industry	43,000	17,000	10,000	40,000	15,000	26,000
4-year college/university	11,000	5,000	4,000	8,000	3,000	6,000
Other educational institution	15,000	6,000	14,000	9,000	4,000	8,000
Government	18,000	9,000	6,000	16,000	6,000	13,000
Economics	20,000	6,000	4,000	19,000	7,000	10,000
Business/industry	20,000	6,000	2,000	18,000	6,000	9,000
4-year college/university	3,000	1,000	1,000	3,000	1,000	2,000
Other educational institution	2,000	1,000	2,000	2,000	500	500
Government	4,000	2,000	2,000	3,000	1,000	3,000
Political/related sciences	23,000	8,000	7,000	21,000	8,000	14,000
Business/industry	20,000	7,000	5,000	18,000	7,000	12,000
4-year college/university	4,000	1,000	2,000	4,000	1,000	2,000
Other educational institution	4,000	1,000	4,000	3,000	1,000	2,000
Government	10,000	5,000	2,000	9,000	3,000	6,000
Psychology	28,000	11,000	12,000	25,000	10,000	16,000
Business/industry	21,000	9,000	6,000	20,000	9,000	13,000
4-year college/university	6,000	3,000	2,000	4,000	2,000	4,000
Other educational institution	12,000	4,000	10,000	7,000	3,000	7,000
Government	12,000	4,000	4,000	10,000	3,000	8,000
Sociology/anthropology	20,000	8,000	9,000	19,000	7,000	15,000
Business/industry	17,000	6,000	5,000	16,000	6,000	11,000
4-year college/university	5,000	2,000	3,000	3,000	1,000	3,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other educational institution	7,000	3,000	6,000	3,000	2,000	3,000
Government	10,000	4,000	4,000	9,000	4,000	7,000
Other social sciences	17,000	8,000	7,000	15,000	4,000	9,000
Business/industry	15,000	7,000	2,000	14,000	3,000	7,000
4-year college/university	4,000	2,000	2,000	3,000	1,000	3,000
Other educational institution	6,000	2,000	6,000	5,000	1,000	2,000
Government	6,000	3,000	2,000	4,000	2,000	4,000
Engineering	28,000	15,000	6,000	25,000	12,000	14,000
Business/industry	26,000	15,000	4,000	23,000	11,000	14,000
4-year college/university	4,000	3,000	2,000	2,000	2,000	2,000
Other educational institution	4,000	2,000	3,000	2,000	1,000	2,000
Government	8,000	6,000	2,000	7,000	4,000	4,000
Aerospace/related engineering	7,000	4,000	2,000	6,000	2,000	3,000
Business/industry	7,000	4,000	1,000	6,000	2,000	3,000
4-year college/university	1,000	500	500	1,000	1,000	*
Other educational institution	*	S	*	S	S	S
Government	2,000	1,000	S	1,000	1,000	1,000
Chemical engineering	7,000	3,000	1,000	6,000	2,000	3,000
Business/industry	7,000	3,000	500	6,000	2,000	3,000
4-year college/university	1,000	1,000	500	500	500	1,000
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	1,000	S	2,000	1,000	1,000
Civil/architectural engineering	12,000	6,000	2,000	10,000	4,000	5,000
Business/industry	10,000	5,000	1,000	10,000	3,000	5,000
4-year college/university	1,000	1,000	1,000	1,000	1,000	500
Other educational institution	2,000	1,000	1,000	1,000	S	S
Government	5,000	3,000	500	4,000	2,000	2,000
Electrical/computer engineering	13,000	8,000	3,000	11,000	8,000	6,000
Business/industry	13,000	8,000	3,000	10,000	8,000	6,000
4-year college/university	2,000	2,000	2,000	1,000	1,000	1,000
Other educational institution	1,000	1,000	1,000	1,000	1,000	S
Government	4,000	2,000	1,000	3,000	2,000	2,000
Industrial engineering	9,000	4,000	1,000	7,000	3,000	4,000
Business/industry	8,000	3,000	1,000	7,000	3,000	4,000
4-year college/university	500	500	500	500	*	*
Other educational institution	1,000	S	1,000	1,000	S	S
Government	2,000	1,000	S	2,000	1,000	1,000
Mechanical engineering	15,000	7,000	3,000	13,000	3,000	7,000
Business/industry	14,000	7,000	1,000	12,000	3,000	6,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	1,000
Other educational institution	2,000	1,000	2,000	1,000	S	1,000
Government	4,000	2,000	S	3,000	1,000	2,000
Other engineering	12,000	6,000	3,000	10,000	5,000	6,000
Business/industry	10,000	5,000	3,000	9,000	5,000	6,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	1,000
Other educational institution	2,000	1,000	1,000	1,000	*	1,000
Government	4,000	2,000	*	3,000	2,000	2,000
S&E-related fields	39,000	22,000	26,000	38,000	14,000	30,000
Business/industry	36,000	18,000	17,000	34,000	11,000	29,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	17,000	8,000	11,000	10,000	3,000	14,000
Other educational institution	17,000	6,000	16,000	10,000	4,000	9,000
Government	15,000	6,000	7,000	11,000	5,000	13,000
Health	31,000	16,000	23,000	30,000	10,000	27,000
Business/industry	31,000	12,000	17,000	28,000	8,000	27,000
4-year college/university	16,000	7,000	10,000	9,000	3,000	14,000
Other educational institution	12,000	4,000	11,000	6,000	3,000	8,000
Government	14,000	5,000	7,000	9,000	4,000	13,000
Science/mathematics teacher education	15,000	6,000	11,000	10,000	5,000	7,000
Business/industry	9,000	4,000	3,000	7,000	2,000	6,000
4-year college/university	3,000	2,000	3,000	2,000	1,000	S
Other educational institution	11,000	4,000	10,000	8,000	3,000	3,000
Government	3,000	1,000	1,000	2,000	1,000	1,000
Technology/technical fields	14,000	8,000	3,000	12,000	6,000	6,000
Business/industry	13,000	8,000	2,000	12,000	5,000	5,000
4-year college/university	2,000	1,000	500	1,000	1,000	1,000
Other educational institution	2,000	1,000	2,000	1,000	1,000	S
Government	4,000	2,000	S	3,000	2,000	2,000
Other S&E-related fields	15,000	10,000	4,000	13,000	5,000	7,000
Business/industry	14,000	10,000	2,000	12,000	4,000	7,000
4-year college/university	3,000	2,000	1,000	2,000	S	1,000
Other educational institution	4,000	S	3,000	2,000	S	S
Government	5,000	2,000	S	4,000	3,000	3,000
Non-S&E fields	45,000	25,000	24,000	41,000	18,000	30,000
Business/industry	37,000	21,000	10,000	35,000	15,000	24,000
4-year college/university	11,000	6,000	7,000	8,000	3,000	6,000
Other educational institution	23,000	9,000	21,000	13,000	7,000	10,000
Government	16,000	8,000	4,000	15,000	7,000	12,000
Arts/humanities	16,000	9,000	7,000	14,000	8,000	8,000
Business/industry	16,000	9,000	3,000	14,000	7,000	8,000
4-year college/university	4,000	3,000	3,000	3,000	1,000	3,000
Other educational institution	6,000	2,000	6,000	3,000	2,000	1,000
Government	4,000	3,000	1,000	3,000	2,000	2,000
Education, except science/mathematics teacher education	25,000	11,000	18,000	18,000	8,000	12,000
Business/industry	12,000	6,000	4,000	10,000	4,000	7,000
4-year college/university	6,000	3,000	3,000	5,000	1,000	3,000
Other educational institution	20,000	8,000	18,000	13,000	6,000	8,000
Government	6,000	2,000	2,000	5,000	3,000	5,000
Management/administration	28,000	15,000	9,000	25,000	11,000	13,000
Business/industry	24,000	14,000	5,000	23,000	10,000	12,000
4-year college/university	6,000	3,000	3,000	4,000	2,000	3,000
Other educational institution	6,000	1,000	5,000	3,000	2,000	3,000
Government	8,000	4,000	3,000	7,000	4,000	4,000
Sales/marketing	10,000	4,000	2,000	8,000	5,000	5,000
Business/industry	10,000	4,000	2,000	9,000	4,000	5,000
4-year college/university	2,000	1,000	1,000	1,000	S	1,000
Other educational institution	1,000	S	1,000	1,000	S	S
Government	2,000	1,000	S	2,000	1,000	2,000
Social services/related	13,000	5,000	6,000	10,000	4,000	10,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Business/industry	11,000	4,000	5,000	8,000	3,000	9,000
4-year college/university	3,000	1,000	2,000	2,000	1,000	2,000
Other educational institution	5,000	2,000	3,000	3,000	1,000	4,000
Government	5,000	2,000	2,000	4,000	2,000	4,000
Other non-S&E fields	23,000	12,000	7,000	19,000	8,000	17,000
Business/industry	20,000	9,000	4,000	16,000	6,000	14,000
4-year college/university	5,000	3,000	3,000	4,000	2,000	2,000
Other educational institution	5,000	3,000	5,000	2,000	2,000	3,000
Government	12,000	6,000	2,000	10,000	4,000	10,000
Bachelor's degrees, all fields	69,000	39,000	29,000	63,000	34,000	47,000
Business/industry	61,000	35,000	18,000	56,000	30,000	41,000
4-year college/university	20,000	9,000	9,000	14,000	7,000	14,000
Other educational institution	24,000	9,000	21,000	14,000	8,000	12,000
Government	30,000	14,000	10,000	24,000	12,000	20,000
S&E fields	60,000	30,000	20,000	56,000	25,000	36,000
Business/industry	54,000	27,000	13,000	50,000	23,000	31,000
4-year college/university	14,000	7,000	5,000	10,000	6,000	8,000
Other educational institution	17,000	7,000	15,000	11,000	5,000	8,000
Government	24,000	12,000	7,000	21,000	9,000	15,000
Sciences	59,000	29,000	19,000	54,000	24,000	35,000
Business/industry	52,000	25,000	12,000	48,000	22,000	31,000
4-year college/university	13,000	7,000	4,000	10,000	6,000	8,000
Other educational institution	17,000	6,000	15,000	11,000	5,000	8,000
Government	23,000	11,000	6,000	20,000	9,000	14,000
Biological/agricultural/environmental life sciences	26,000	12,000	10,000	21,000	9,000	16,000
Business/industry	24,000	10,000	6,000	20,000	8,000	15,000
4-year college/university	8,000	5,000	3,000	6,000	3,000	5,000
Other educational institution	8,000	2,000	7,000	5,000	2,000	4,000
Government	11,000	5,000	3,000	8,000	4,000	7,000
Agricultural/food sciences	12,000	4,000	5,000	11,000	3,000	8,000
Business/industry	10,000	4,000	1,000	10,000	2,000	7,000
4-year college/university	2,000	1,000	500	2,000	1,000	2,000
Other educational institution	4,000	1,000	4,000	2,000	S	3,000
Government	4,000	1,000	1,000	4,000	2,000	3,000
Biological sciences	24,000	11,000	10,000	17,000	9,000	15,000
Business/industry	21,000	9,000	5,000	15,000	8,000	13,000
4-year college/university	7,000	5,000	3,000	6,000	2,000	5,000
Other educational institution	7,000	2,000	6,000	4,000	2,000	4,000
Government	8,000	4,000	2,000	6,000	3,000	5,000
Environmental life sciences	7,000	4,000	1,000	7,000	3,000	4,000
Business/industry	6,000	3,000	1,000	6,000	2,000	4,000
4-year college/university	2,000	1,000	S	2,000	S	S
Other educational institution	1,000	500	1,000	1,000	S	S
Government	5,000	3,000	1,000	3,000	2,000	3,000
Computer/mathematical sciences	21,000	11,000	8,000	18,000	15,000	10,000
Business/industry	21,000	11,000	3,000	18,000	14,000	8,000
4-year college/university	4,000	2,000	1,000	3,000	3,000	2,000
Other educational institution	8,000	3,000	7,000	6,000	3,000	2,000
Government	6,000	4,000	1,000	5,000	4,000	4,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Computer/information sciences	16,000	10,000	3,000	13,000	13,000	7,000
Business/industry	15,000	9,000	2,000	13,000	13,000	6,000
4-year college/university	3,000	2,000	500	3,000	3,000	1,000
Other educational institution	4,000	2,000	3,000	3,000	2,000	1,000
Government	5,000	3,000	1,000	4,000	4,000	3,000
Mathematical sciences	15,000	7,000	7,000	13,000	7,000	7,000
Business/industry	13,000	6,000	3,000	11,000	6,000	6,000
4-year college/university	2,000	1,000	1,000	2,000	2,000	1,000
Other educational institution	7,000	2,000	7,000	5,000	1,000	2,000
Government	4,000	3,000	S	3,000	2,000	2,000
Physical/related sciences	14,000	8,000	5,000	12,000	6,000	8,000
Business/industry	13,000	8,000	3,000	11,000	5,000	7,000
4-year college/university	4,000	2,000	1,000	3,000	2,000	2,000
Other educational institution	4,000	2,000	4,000	3,000	3,000	2,000
Government	5,000	3,000	1,000	4,000	2,000	3,000
Chemistry, except biochemistry	11,000	6,000	4,000	10,000	3,000	6,000
Business/industry	10,000	5,000	2,000	9,000	2,000	6,000
4-year college/university	2,000	2,000	1,000	1,000	1,000	1,000
Other educational institution	3,000	2,000	2,000	2,000	S	S
Government	3,000	2,000	S	3,000	1,000	2,000
Earth/atmospheric/ocean sciences	8,000	4,000	2,000	6,000	3,000	4,000
Business/industry	6,000	4,000	1,000	5,000	2,000	3,000
4-year college/university	1,000	500	500	1,000	*	1,000
Other educational institution	2,000	*	2,000	1,000	S	2,000
Government	3,000	2,000	S	2,000	2,000	2,000
Physics/astronomy	6,000	3,000	3,000	4,000	4,000	2,000
Business/industry	5,000	3,000	S	4,000	3,000	2,000
4-year college/university	1,000	1,000	500	1,000	500	1,000
Other educational institution	3,000	500	3,000	1,000	S	S
Government	1,000	500	S	1,000	500	1,000
Other physical sciences	5,000	3,000	1,000	4,000	2,000	3,000
Business/industry	4,000	2,000	S	3,000	1,000	2,000
4-year college/university	3,000	S	S	S	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	1,000	S	2,000	S	1,000
Social/related sciences	45,000	18,000	16,000	44,000	16,000	28,000
Business/industry	40,000	16,000	10,000	37,000	14,000	24,000
4-year college/university	8,000	3,000	3,000	6,000	2,000	5,000
Other educational institution	13,000	5,000	12,000	7,000	3,000	5,000
Government	18,000	7,000	6,000	15,000	6,000	12,000
Economics	19,000	6,000	4,000	18,000	6,000	9,000
Business/industry	19,000	5,000	2,000	17,000	6,000	9,000
4-year college/university	3,000	1,000	1,000	2,000	1,000	2,000
Other educational institution	2,000	*	2,000	1,000	S	S
Government	4,000	1,000	S	3,000	1,000	3,000
Political/related sciences	21,000	8,000	7,000	19,000	7,000	13,000
Business/industry	19,000	6,000	5,000	17,000	6,000	12,000
4-year college/university	4,000	1,000	1,000	4,000	1,000	1,000
Other educational institution	4,000	1,000	4,000	2,000	1,000	2,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	9,000	5,000	2,000	7,000	3,000	6,000
Psychology	25,000	9,000	11,000	23,000	10,000	14,000
Business/industry	20,000	8,000	5,000	18,000	9,000	12,000
4-year college/university	4,000	2,000	1,000	3,000	2,000	3,000
Other educational institution	9,000	3,000	9,000	5,000	2,000	4,000
Government	10,000	4,000	4,000	9,000	3,000	7,000
Sociology/anthropology	20,000	8,000	9,000	19,000	7,000	14,000
Business/industry	17,000	6,000	5,000	16,000	6,000	10,000
4-year college/university	4,000	1,000	2,000	3,000	1,000	2,000
Other educational institution	7,000	3,000	6,000	3,000	2,000	3,000
Government	10,000	4,000	4,000	9,000	4,000	7,000
Other social sciences	16,000	7,000	6,000	14,000	3,000	8,000
Business/industry	14,000	7,000	2,000	13,000	3,000	6,000
4-year college/university	3,000	1,000	1,000	2,000	1,000	2,000
Other educational institution	6,000	2,000	5,000	4,000	1,000	2,000
Government	5,000	3,000	1,000	4,000	2,000	4,000
Engineering	25,000	13,000	6,000	22,000	10,000	13,000
Business/industry	23,000	13,000	4,000	21,000	9,000	12,000
4-year college/university	3,000	2,000	1,000	2,000	2,000	2,000
Other educational institution	3,000	2,000	3,000	2,000	1,000	2,000
Government	8,000	5,000	2,000	7,000	4,000	4,000
Aerospace/related engineering	7,000	4,000	1,000	6,000	2,000	3,000
Business/industry	6,000	4,000	1,000	6,000	2,000	3,000
4-year college/university	1,000	500	*	1,000	1,000	S
Other educational institution	S	S	S	S	S	S
Government	2,000	1,000	S	1,000	1,000	1,000
Chemical engineering	7,000	3,000	1,000	6,000	2,000	3,000
Business/industry	6,000	2,000	500	5,000	2,000	3,000
4-year college/university	1,000	1,000	500	S	500	1,000
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	1,000	S	2,000	1,000	1,000
Civil/architectural engineering	11,000	5,000	1,000	10,000	3,000	5,000
Business/industry	10,000	4,000	1,000	9,000	3,000	4,000
4-year college/university	1,000	1,000	500	1,000	S	S
Other educational institution	1,000	1,000	1,000	S	S	S
Government	4,000	3,000	S	4,000	2,000	2,000
Electrical/computer engineering	11,000	8,000	3,000	10,000	7,000	6,000
Business/industry	11,000	8,000	3,000	9,000	6,000	6,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	1,000
Other educational institution	1,000	1,000	1,000	1,000	500	S
Government	3,000	2,000	S	3,000	2,000	2,000
Industrial engineering	8,000	3,000	1,000	7,000	3,000	3,000
Business/industry	8,000	3,000	1,000	7,000	3,000	3,000
4-year college/university	500	500	S	S	S	S
Other educational institution	1,000	S	1,000	1,000	S	S
Government	2,000	1,000	S	2,000	1,000	500
Mechanical engineering	13,000	6,000	2,000	11,000	3,000	7,000
Business/industry	12,000	6,000	1,000	11,000	3,000	6,000
4-year college/university	1,000	1,000	500	1,000	1,000	500

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other educational institution	2,000	1,000	2,000	1,000	S	S
Government	4,000	1,000	S	3,000	1,000	2,000
Other engineering	10,000	5,000	3,000	8,000	5,000	6,000
Business/industry	9,000	5,000	3,000	8,000	4,000	5,000
4-year college/university	1,000	1,000	500	1,000	1,000	1,000
Other educational institution	2,000	S	1,000	S	S	S
Government	3,000	2,000	S	2,000	2,000	2,000
S&E-related fields	36,000	17,000	20,000	33,000	12,000	27,000
Business/industry	33,000	15,000	13,000	30,000	10,000	24,000
4-year college/university	13,000	6,000	8,000	7,000	3,000	11,000
Other educational institution	14,000	5,000	13,000	7,000	3,000	7,000
Government	13,000	5,000	6,000	9,000	5,000	12,000
Health	29,000	12,000	18,000	25,000	8,000	24,000
Business/industry	28,000	9,000	13,000	23,000	7,000	22,000
4-year college/university	12,000	5,000	8,000	7,000	3,000	11,000
Other educational institution	9,000	3,000	8,000	4,000	2,000	6,000
Government	12,000	4,000	6,000	7,000	3,000	11,000
Science/mathematics teacher education	13,000	5,000	9,000	9,000	3,000	6,000
Business/industry	8,000	3,000	3,000	7,000	2,000	5,000
4-year college/university	S	S	S	S	S	S
Other educational institution	9,000	3,000	9,000	5,000	2,000	3,000
Government	2,000	1,000	S	2,000	1,000	1,000
Technology/technical fields	13,000	8,000	3,000	12,000	5,000	5,000
Business/industry	12,000	8,000	2,000	11,000	5,000	5,000
4-year college/university	2,000	1,000	S	1,000	1,000	S
Other educational institution	2,000	1,000	2,000	1,000	1,000	S
Government	4,000	2,000	S	3,000	2,000	2,000
Other S&E-related fields	13,000	8,000	4,000	11,000	5,000	6,000
Business/industry	12,000	8,000	2,000	10,000	3,000	6,000
4-year college/university	2,000	1,000	S	1,000	S	S
Other educational institution	3,000	S	3,000	S	S	S
Government	4,000	1,000	S	4,000	3,000	2,000
Non-S&E fields	29,000	16,000	13,000	22,000	16,000	16,000
Business/industry	25,000	13,000	7,000	21,000	13,000	13,000
4-year college/university	5,000	4,000	2,000	4,000	3,000	4,000
Other educational institution	11,000	5,000	11,000	5,000	4,000	5,000
Government	9,000	5,000	3,000	8,000	5,000	6,000
Arts/humanities	15,000	8,000	5,000	12,000	7,000	7,000
Business/industry	13,000	8,000	3,000	12,000	7,000	7,000
4-year college/university	3,000	1,000	S	2,000	1,000	2,000
Other educational institution	4,000	2,000	4,000	2,000	2,000	S
Government	4,000	3,000	1,000	2,000	2,000	2,000
Education, except science/mathematics teacher education	11,000	5,000	9,000	9,000	5,000	7,000
Business/industry	8,000	4,000	3,000	6,000	3,000	5,000
4-year college/university	2,000	1,000	S	1,000	S	1,000
Other educational institution	8,000	3,000	8,000	5,000	3,000	3,000
Government	4,000	1,000	1,000	4,000	3,000	4,000
Management/administration	18,000	9,000	7,000	15,000	9,000	9,000
Business/industry	17,000	8,000	4,000	14,000	8,000	8,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	3,000	2,000	S	2,000	2,000	1,000
Other educational institution	5,000	1,000	4,000	2,000	2,000	3,000
Government	6,000	3,000	1,000	5,000	3,000	3,000
Sales/marketing	5,000	3,000	2,000	4,000	4,000	4,000
Business/industry	5,000	3,000	S	4,000	3,000	3,000
4-year college/university	1,000	S	S	S	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	S	S	S	S	S
Social services/related	5,000	2,000	2,000	3,000	3,000	3,000
Business/industry	4,000	2,000	1,000	2,000	3,000	3,000
4-year college/university	1,000	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	2,000	S	S	2,000	1,000	S
Other non-S&E fields	11,000	5,000	4,000	9,000	5,000	7,000
Business/industry	9,000	4,000	3,000	7,000	4,000	5,000
4-year college/university	3,000	2,000	S	2,000	1,000	2,000
Other educational institution	4,000	2,000	3,000	1,000	1,000	2,000
Government	4,000	2,000	1,000	3,000	1,000	3,000
Master's degrees, all fields	47,000	24,000	23,000	39,000	20,000	28,000
Business/industry	38,000	21,000	11,000	31,000	14,000	27,000
4-year college/university	13,000	8,000	8,000	9,000	4,000	8,000
Other educational institution	22,000	10,000	20,000	15,000	7,000	11,000
Government	19,000	10,000	6,000	15,000	8,000	11,000
S&E fields	28,000	15,000	11,000	22,000	11,000	16,000
Business/industry	23,000	12,000	5,000	20,000	9,000	13,000
4-year college/university	8,000	6,000	4,000	5,000	4,000	4,000
Other educational institution	10,000	3,000	8,000	6,000	3,000	6,000
Government	12,000	5,000	3,000	10,000	5,000	7,000
Sciences	25,000	13,000	10,000	21,000	10,000	15,000
Business/industry	20,000	10,000	5,000	17,000	8,000	11,000
4-year college/university	8,000	5,000	4,000	5,000	3,000	4,000
Other educational institution	9,000	3,000	8,000	5,000	3,000	6,000
Government	11,000	5,000	3,000	9,000	5,000	6,000
Biological/agricultural/environmental life sciences	9,000	5,000	5,000	7,000	3,000	6,000
Business/industry	8,000	3,000	2,000	6,000	3,000	5,000
4-year college/university	4,000	3,000	3,000	2,000	2,000	1,000
Other educational institution	3,000	1,000	3,000	2,000	500	1,000
Government	4,000	2,000	2,000	3,000	1,000	3,000
Agricultural/food sciences	4,000	2,000	1,000	3,000	1,000	3,000
Business/industry	3,000	1,000	S	3,000	S	2,000
4-year college/university	2,000	2,000	1,000	1,000	S	1,000
Other educational institution	1,000	500	1,000	S	S	S
Government	1,000	1,000	S	500	S	1,000
Biological sciences	7,000	4,000	4,000	6,000	3,000	4,000
Business/industry	6,000	3,000	2,000	4,000	2,000	3,000
4-year college/university	3,000	2,000	2,000	2,000	2,000	1,000
Other educational institution	2,000	1,000	2,000	1,000	S	1,000
Government	3,000	1,000	2,000	3,000	500	2,000
Environmental life sciences	4,000	2,000	1,000	3,000	2,000	3,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Business/industry	3,000	1,000	S	3,000	2,000	2,000
4-year college/university	1,000	500	1,000	1,000	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	1,000	S	2,000	1,000	2,000
Computer/mathematical sciences	11,000	7,000	4,000	9,000	7,000	4,000
Business/industry	10,000	6,000	2,000	8,000	6,000	4,000
4-year college/university	4,000	3,000	2,000	2,000	2,000	1,000
Other educational institution	3,000	1,000	3,000	2,000	2,000	1,000
Government	4,000	1,000	S	3,000	3,000	1,000
Computer/information sciences	10,000	7,000	2,000	8,000	6,000	3,000
Business/industry	9,000	6,000	1,000	7,000	6,000	3,000
4-year college/university	3,000	3,000	1,000	2,000	2,000	500
Other educational institution	2,000	1,000	2,000	1,000	1,000	S
Government	3,000	1,000	S	3,000	3,000	500
Mathematical sciences	5,000	3,000	3,000	4,000	3,000	2,000
Business/industry	5,000	2,000	1,000	4,000	2,000	2,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	1,000
Other educational institution	2,000	1,000	2,000	1,000	1,000	1,000
Government	1,000	1,000	S	1,000	1,000	1,000
Physical/related sciences	7,000	4,000	3,000	5,000	3,000	4,000
Business/industry	6,000	4,000	1,000	4,000	3,000	4,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	1,000
Other educational institution	3,000	1,000	3,000	1,000	1,000	500
Government	2,000	1,000	*	2,000	1,000	1,000
Chemistry, except biochemistry	4,000	2,000	2,000	3,000	1,000	3,000
Business/industry	4,000	2,000	S	3,000	1,000	2,000
4-year college/university	1,000	1,000	500	1,000	S	1,000
Other educational institution	2,000	500	2,000	1,000	S	S
Government	1,000	1,000	S	500	*	1,000
Earth/atmospheric/ocean sciences	4,000	2,000	2,000	3,000	2,000	2,000
Business/industry	3,000	2,000	S	3,000	2,000	2,000
4-year college/university	1,000	1,000	1,000	*	*	S
Other educational institution	2,000	500	1,000	1,000	S	S
Government	2,000	1,000	S	2,000	1,000	1,000
Physics/astronomy	3,000	2,000	1,000	2,000	2,000	2,000
Business/industry	3,000	2,000	S	2,000	1,000	2,000
4-year college/university	1,000	1,000	1,000	500	1,000	*
Other educational institution	1,000	500	1,000	500	S	S
Government	500	500	S	500	S	S
Other physical sciences	1,000	1,000	500	1,000	S	S
Business/industry	1,000	S	S	S	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	500	S	500	S	S	S
Government	1,000	S	S	S	S	S
Social/related sciences	19,000	8,000	8,000	17,000	6,000	12,000
Business/industry	15,000	6,000	4,000	14,000	4,000	10,000
4-year college/university	6,000	3,000	2,000	4,000	1,000	3,000
Other educational institution	8,000	3,000	7,000	4,000	2,000	6,000
Government	8,000	4,000	2,000	7,000	3,000	5,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Economics	6,000	2,000	2,000	6,000	2,000	4,000
Business/industry	6,000	2,000	S	5,000	2,000	3,000
4-year college/university	2,000	1,000	1,000	1,000	500	S
Other educational institution	2,000	1,000	1,000	1,000	S	S
Government	2,000	1,000	S	1,000	1,000	2,000
Political/related sciences	8,000	4,000	2,000	7,000	3,000	3,000
Business/industry	6,000	3,000	1,000	5,000	2,000	3,000
4-year college/university	2,000	1,000	1,000	2,000	S	1,000
Other educational institution	1,000	500	1,000	1,000	S	S
Government	5,000	2,000	S	4,000	1,000	2,000
Psychology	14,000	5,000	7,000	12,000	4,000	10,000
Business/industry	10,000	4,000	4,000	9,000	2,000	6,000
4-year college/university	3,000	2,000	1,000	2,000	1,000	2,000
Other educational institution	7,000	2,000	6,000	4,000	2,000	5,000
Government	6,000	3,000	1,000	5,000	2,000	4,000
Sociology/anthropology	5,000	3,000	2,000	4,000	2,000	4,000
Business/industry	4,000	2,000	1,000	3,000	1,000	3,000
4-year college/university	3,000	2,000	1,000	1,000	1,000	1,000
Other educational institution	2,000	1,000	2,000	1,000	S	S
Government	2,000	1,000	S	2,000	S	2,000
Other social sciences	6,000	3,000	3,000	5,000	1,000	4,000
Business/industry	5,000	2,000	1,000	4,000	1,000	4,000
4-year college/university	3,000	1,000	1,000	2,000	500	1,000
Other educational institution	2,000	2,000	2,000	2,000	S	1,000
Government	3,000	1,000	S	2,000	500	1,000
Engineering	12,000	8,000	2,000	9,000	6,000	6,000
Business/industry	11,000	7,000	1,000	9,000	5,000	5,000
4-year college/university	2,000	2,000	1,000	1,000	2,000	1,000
Other educational institution	2,000	1,000	2,000	1,000	500	1,000
Government	4,000	3,000	S	3,000	1,000	2,000
Aerospace/related engineering	2,000	1,000	500	1,000	1,000	1,000
Business/industry	2,000	1,000	S	1,000	1,000	1,000
4-year college/university	500	500	*	*	*	S
Other educational institution	S	S	S	S	S	S
Government	1,000	1,000	S	500	500	S
Chemical engineering	3,000	1,000	1,000	3,000	1,000	1,000
Business/industry	3,000	1,000	S	3,000	1,000	1,000
4-year college/university	500	500	S	S	500	S
Other educational institution	S	S	S	S	S	S
Government	1,000	*	S	1,000	S	500
Civil/architectural engineering	5,000	3,000	1,000	4,000	2,000	3,000
Business/industry	4,000	3,000	S	4,000	1,000	3,000
4-year college/university	1,000	1,000	500	S	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	1,000	S	2,000	1,000	1,000
Electrical/computer engineering	6,000	5,000	1,000	5,000	4,000	2,000
Business/industry	6,000	5,000	500	5,000	4,000	2,000
4-year college/university	2,000	1,000	1,000	1,000	1,000	S
Other educational institution	500	S	500	S	S	S

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	1,000	1,000	S	1,000	1,000	1,000
Industrial engineering	2,000	1,000	500	2,000	1,000	1,000
Business/industry	2,000	1,000	S	2,000	1,000	1,000
4-year college/university	500	500	S	S	S	S
Other educational institution	1,000	S	S	S	S	S
Government	1,000	1,000	S	500	S	S
Mechanical engineering	5,000	4,000	1,000	4,000	2,000	2,000
Business/industry	5,000	4,000	S	4,000	2,000	2,000
4-year college/university	1,000	1,000	1,000	500	1,000	S
Other educational institution	500	S	S	S	S	S
Government	1,000	1,000	S	1,000	500	1,000
Other engineering	5,000	3,000	1,000	4,000	2,000	3,000
Business/industry	5,000	3,000	S	4,000	2,000	3,000
4-year college/university	1,000	1,000	500	500	500	1,000
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	1,000	S	2,000	1,000	1,000
S&E-related fields	20,000	11,000	13,000	15,000	6,000	14,000
Business/industry	18,000	8,000	8,000	13,000	5,000	14,000
4-year college/university	7,000	3,000	4,000	5,000	2,000	6,000
Other educational institution	10,000	4,000	9,000	7,000	3,000	6,000
Government	8,000	4,000	3,000	5,000	2,000	6,000
Health	16,000	8,000	11,000	12,000	5,000	14,000
Business/industry	15,000	6,000	8,000	10,000	4,000	14,000
4-year college/university	6,000	2,000	4,000	5,000	1,000	5,000
Other educational institution	7,000	3,000	6,000	4,000	1,000	5,000
Government	7,000	3,000	3,000	4,000	2,000	6,000
Science/mathematics teacher education	8,000	4,000	7,000	7,000	4,000	3,000
Business/industry	4,000	2,000	2,000	3,000	2,000	2,000
4-year college/university	2,000	500	2,000	1,000	1,000	S
Other educational institution	7,000	3,000	7,000	6,000	3,000	2,000
Government	2,000	1,000	S	1,000	S	S
Technology/technical fields	4,000	3,000	1,000	3,000	2,000	2,000
Business/industry	4,000	3,000	S	3,000	2,000	2,000
4-year college/university	500	500	S	S	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	2,000	S	S	1,000	1,000	1,000
Other S&E-related fields	7,000	5,000	1,000	7,000	2,000	5,000
Business/industry	7,000	4,000	S	6,000	2,000	4,000
4-year college/university	2,000	1,000	1,000	1,000	S	S
Other educational institution	2,000	S	S	S	S	S
Government	3,000	2,000	S	3,000	S	2,000
Non-S&E fields	34,000	17,000	18,000	31,000	13,000	19,000
Business/industry	25,000	13,000	6,000	24,000	9,000	17,000
4-year college/university	8,000	4,000	6,000	6,000	2,000	4,000
Other educational institution	19,000	7,000	16,000	12,000	5,000	9,000
Government	11,000	6,000	3,000	10,000	5,000	7,000
Arts/humanities	9,000	5,000	5,000	7,000	3,000	4,000
Business/industry	7,000	4,000	1,000	7,000	2,000	4,000
4-year college/university	3,000	3,000	3,000	1,000	500	1,000

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other educational institution	4,000	2,000	4,000	2,000	1,000	1,000
Government	2,000	1,000	S	2,000	S	1,000
Education, except science/mathematics teacher education	21,000	9,000	15,000	15,000	6,000	9,000
Business/industry	9,000	4,000	3,000	7,000	3,000	6,000
4-year college/university	4,000	3,000	3,000	3,000	1,000	2,000
Other educational institution	17,000	7,000	15,000	11,000	4,000	7,000
Government	4,000	2,000	1,000	3,000	2,000	3,000
Management/administration	20,000	12,000	5,000	20,000	8,000	11,000
Business/industry	18,000	11,000	3,000	18,000	8,000	10,000
4-year college/university	5,000	2,000	2,000	3,000	1,000	2,000
Other educational institution	4,000	1,000	3,000	2,000	1,000	2,000
Government	7,000	3,000	2,000	6,000	3,000	3,000
Sales/marketing	8,000	3,000	2,000	7,000	3,000	3,000
Business/industry	8,000	3,000	S	7,000	2,000	3,000
4-year college/university	1,000	S	S	1,000	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	1,000	S	S	1,000	S	S
Social services/related	11,000	4,000	5,000	10,000	3,000	9,000
Business/industry	9,000	3,000	4,000	8,000	1,000	8,000
4-year college/university	2,000	1,000	1,000	2,000	S	2,000
Other educational institution	4,000	1,000	3,000	3,000	1,000	4,000
Government	5,000	2,000	1,000	3,000	2,000	4,000
Other non-S&E fields	12,000	6,000	5,000	9,000	5,000	7,000
Business/industry	8,000	4,000	2,000	7,000	3,000	5,000
4-year college/university	4,000	1,000	2,000	4,000	1,000	2,000
Other educational institution	3,000	1,000	3,000	1,000	2,000	2,000
Government	7,000	4,000	2,000	6,000	3,000	4,000
Doctorate degrees, all fields	11,000	8,000	6,000	8,000	3,000	5,000
Business/industry	7,000	5,000	2,000	6,000	2,000	4,000
4-year college/university	7,000	5,000	5,000	5,000	1,000	2,000
Other educational institution	5,000	3,000	4,000	3,000	2,000	2,000
Government	3,000	2,000	1,000	2,000	1,000	2,000
S&E fields	5,000	5,000	3,000	3,000	1,000	2,000
Business/industry	4,000	3,000	1,000	3,000	1,000	2,000
4-year college/university	4,000	4,000	3,000	2,000	1,000	1,000
Other educational institution	1,000	500	1,000	500	500	500
Government	2,000	2,000	500	1,000	1,000	1,000
Sciences	5,000	5,000	3,000	3,000	1,000	2,000
Business/industry	3,000	3,000	1,000	3,000	1,000	2,000
4-year college/university	4,000	4,000	3,000	2,000	1,000	1,000
Other educational institution	1,000	500	1,000	500	500	500
Government	2,000	2,000	500	1,000	500	1,000
Biological/agricultural/environmental life sciences	3,000	3,000	2,000	2,000	1,000	1,000
Business/industry	2,000	2,000	1,000	1,000	1,000	1,000
4-year college/university	2,000	2,000	1,000	1,000	500	1,000
Other educational institution	1,000	500	500	500	*	500
Government	1,000	1,000	*	1,000	500	500
Agricultural/food sciences	1,000	1,000	500	1,000	500	500
Business/industry	1,000	500	*	1,000	*	500

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	1,000	1,000	500	500	*	500
Other educational institution	*	S	*	*	S	S
Government	500	500	S	500	*	*
Biological sciences	3,000	3,000	2,000	2,000	1,000	1,000
Business/industry	2,000	1,000	1,000	1,000	1,000	1,000
4-year college/university	2,000	2,000	1,000	1,000	500	1,000
Other educational institution	500	500	500	500	*	*
Government	1,000	1,000	*	500	500	500
Environmental life sciences	500	500	500	500	*	500
Business/industry	500	500	S	500	S	*
4-year college/university	500	500	500	500	S	*
Other educational institution	*	S	S	S	S	S
Government	500	500	S	500	S	*
Computer/mathematical sciences	2,000	2,000	2,000	1,000	1,000	1,000
Business/industry	1,000	1,000	*	1,000	1,000	1,000
4-year college/university	2,000	2,000	2,000	500	500	500
Other educational institution	500	*	500	*	*	*
Government	500	500	S	500	500	*
Computer/information sciences	1,000	1,000	500	1,000	500	500
Business/industry	1,000	1,000	S	500	500	500
4-year college/university	1,000	1,000	500	500	500	*
Other educational institution	*	S	*	*	*	S
Government	500	*	S	*	*	S
Mathematical sciences	2,000	2,000	2,000	500	1,000	500
Business/industry	1,000	1,000	*	500	500	500
4-year college/university	2,000	2,000	2,000	500	500	500
Other educational institution	500	*	500	*	*	*
Government	500	500	S	500	500	*
Physical/related sciences	2,000	2,000	1,000	2,000	1,000	1,000
Business/industry	2,000	1,000	1,000	1,000	1,000	1,000
4-year college/university	1,000	1,000	1,000	1,000	500	500
Other educational institution	500	500	500	500	*	500
Government	1,000	1,000	*	1,000	500	500
Chemistry, except biochemistry	2,000	1,000	1,000	1,000	500	1,000
Business/industry	1,000	1,000	500	1,000	500	1,000
4-year college/university	1,000	1,000	1,000	1,000	500	500
Other educational institution	500	*	500	500	*	*
Government	1,000	500	S	500	*	500
Earth/atmospheric/ocean sciences	1,000	1,000	500	500	500	500
Business/industry	500	500	*	500	500	500
4-year college/university	1,000	1,000	500	500	500	500
Other educational institution	500	*	*	*	S	S
Government	500	500	S	500	500	500
Physics/astronomy	1,000	1,000	1,000	1,000	1,000	500
Business/industry	1,000	1,000	*	1,000	1,000	500
4-year college/university	1,000	1,000	1,000	500	500	500
Other educational institution	500	*	500	*	S	*
Government	500	500	S	500	500	500
Other physical sciences	1,000	1,000	1,000	1,000	*	*

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Business/industry	1,000	500	S	1,000	*	*
4-year college/university	1,000	1,000	*	*	S	S
Other educational institution	S	S	S	S	S	S
Government	*	*	S	*	S	S
Social/related sciences	2,000	2,000	2,000	2,000	500	1,000
Business/industry	2,000	1,000	500	1,000	500	1,000
4-year college/university	2,000	1,000	1,000	1,000	500	1,000
Other educational institution	1,000	500	500	500	*	500
Government	1,000	500	500	1,000	500	500
Economics	1,000	1,000	1,000	500	500	500
Business/industry	500	500	*	500	500	500
4-year college/university	1,000	500	1,000	500	*	500
Other educational institution	*	S	*	S	S	S
Government	500	500	S	500	*	500
Political/related sciences	1,000	1,000	1,000	1,000	500	500
Business/industry	1,000	1,000	*	1,000	*	500
4-year college/university	1,000	500	1,000	500	*	500
Other educational institution	500	*	500	500	S	*
Government	500	500	S	500	S	500
Psychology	1,000	1,000	1,000	1,000	500	1,000
Business/industry	1,000	1,000	500	1,000	500	1,000
4-year college/university	1,000	1,000	1,000	1,000	500	500
Other educational institution	500	500	500	500	*	500
Government	500	500	500	500	*	500
Sociology/anthropology	1,000	1,000	1,000	1,000	500	500
Business/industry	1,000	1,000	*	500	*	500
4-year college/university	1,000	1,000	1,000	500	*	500
Other educational institution	500	*	500	500	S	*
Government	500	500	S	500	*	*
Other social sciences	1,000	1,000	1,000	1,000	500	500
Business/industry	500	500	*	500	500	500
4-year college/university	1,000	1,000	1,000	500	*	500
Other educational institution	500	*	500	500	S	*
Government	500	500	S	500	S	*
Engineering	2,000	2,000	1,000	1,000	1,000	1,000
Business/industry	2,000	2,000	500	1,000	1,000	1,000
4-year college/university	1,000	1,000	1,000	1,000	500	500
Other educational institution	500	*	500	*	*	S
Government	1,000	1,000	*	1,000	500	500
Aerospace/related engineering	1,000	1,000	500	500	500	*
Business/industry	1,000	1,000	S	500	*	*
4-year college/university	500	500	500	*	*	S
Other educational institution	S	S	S	S	S	S
Government	500	500	S	*	*	S
Chemical engineering	1,000	1,000	500	1,000	500	500
Business/industry	1,000	1,000	*	500	500	500
4-year college/university	500	500	500	500	*	*
Other educational institution	*	S	*	S	S	S
Government	500	500	S	500	S	500

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Civil/architectural engineering	1,000	500	500	500	500	500
Business/industry	1,000	500	S	500	500	500
4-year college/university	500	500	500	500	*	*
Other educational institution	S	S	S	S	S	S
Government	500	500	S	500	*	*
Electrical/computer engineering	1,000	1,000	500	1,000	1,000	500
Business/industry	1,000	1,000	*	1,000	500	500
4-year college/university	1,000	1,000	500	500	500	*
Other educational institution	*	S	*	S	S	S
Government	500	500	S	500	500	*
Industrial engineering	500	500	500	500	500	*
Business/industry	500	500	S	500	500	*
4-year college/university	500	500	500	*	S	*
Other educational institution	S	S	S	S	S	S
Government	*	*	S	*	S	S
Mechanical engineering	1,000	500	500	500	500	500
Business/industry	500	500	*	500	500	500
4-year college/university	500	500	500	500	*	*
Other educational institution	*	S	S	S	S	S
Government	500	500	S	*	*	S
Other engineering	1,000	1,000	500	1,000	500	500
Business/industry	1,000	1,000	*	1,000	500	500
4-year college/university	1,000	500	500	500	500	500
Other educational institution	500	S	*	*	S	S
Government	500	500	S	500	500	*
S&E-related fields	4,000	4,000	2,000	4,000	1,000	2,000
Business/industry	3,000	3,000	500	3,000	500	1,000
4-year college/university	2,000	2,000	2,000	1,000	500	1,000
Other educational institution	1,000	1,000	1,000	1,000	S	500
Government	2,000	500	*	1,000	*	1,000
Health	3,000	1,000	1,000	2,000	500	2,000
Business/industry	2,000	1,000	500	1,000	500	1,000
4-year college/university	1,000	1,000	1,000	1,000	500	1,000
Other educational institution	500	*	*	*	S	*
Government	1,000	500	*	1,000	*	1,000
Science/mathematics teacher education	2,000	2,000	2,000	1,000	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	2,000	2,000	2,000	500	S	S
Other educational institution	1,000	S	500	1,000	S	S
Government	S	S	S	S	S	S
Technology/technical fields	1,000	1,000	S	500	500	S
Business/industry	1,000	1,000	S	S	500	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Other S&E-related fields	3,000	3,000	1,000	3,000	S	S
Business/industry	3,000	3,000	S	S	S	S
4-year college/university	1,000	500	1,000	S	S	S
Other educational institution	S	S	S	S	S	S

TABLE A-13. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	S	S	S	S	S	S
Non-S&E fields	8,000	5,000	5,000	6,000	2,000	4,000
Business/industry	4,000	3,000	2,000	3,000	1,000	3,000
4-year college/university	5,000	2,000	3,000	4,000	500	2,000
Other educational institution	4,000	3,000	4,000	3,000	2,000	1,000
Government	2,000	1,000	S	1,000	1,000	1,000
Arts/humanities	2,000	1,000	1,000	2,000	500	1,000
Business/industry	1,000	500	S	1,000	500	S
4-year college/university	2,000	1,000	1,000	1,000	S	1,000
Other educational institution	1,000	S	500	S	S	S
Government	S	S	S	S	S	S
Education, except science/mathematics teacher education	6,000	3,000	4,000	5,000	2,000	3,000
Business/industry	2,000	1,000	1,000	1,000	S	1,000
4-year college/university	4,000	1,000	2,000	4,000	500	2,000
Other educational institution	4,000	2,000	3,000	3,000	S	1,000
Government	1,000	S	S	1,000	S	S
Management/administration	2,000	2,000	1,000	2,000	S	1,000
Business/industry	2,000	1,000	S	1,000	S	1,000
4-year college/university	1,000	1,000	1,000	1,000	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Sales/marketing	500	500	500	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	500	500	500	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social services/related	3,000	2,000	2,000	2,000	S	2,000
Business/industry	2,000	S	1,000	1,000	S	1,000
4-year college/university	1,000	1,000	1,000	1,000	S	1,000
Other educational institution	1,000	S	S	S	S	S
Government	S	S	S	S	S	S
Other non-S&E fields	3,000	2,000	1,000	2,000	1,000	2,000
Business/industry	3,000	2,000	S	2,000	S	2,000
4-year college/university	1,000	1,000	1,000	1,000	S	500
Other educational institution	1,000	S	S	S	S	S
Government	1,000	S	S	S	S	S

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Business/industry includes self-employed individuals, nonprofit organizations, and other unspecified. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Government includes federal, military, state, and local employers. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-14. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
All degree levels and fields[b]	82,000	60,000	56,000	6,000	22,000	20,000	20,000	77,000	12,000
S&E fields	67,000	53,000	41,000	4,000	18,000	15,000	14,000	61,000	8,000
Sciences	64,000	46,000	41,000	4,000	15,000	15,000	12,000	58,000	7,000
Biological/agricultural/environmental life sciences	27,000	20,000	17,000	1,000	7,000	5,000	6,000	24,000	3,000
Agricultural sciences	12,000	9,000	8,000	S	3,000	1,000	2,000	12,000	2,000
Biological sciences	25,000	19,000	16,000	1,000	7,000	5,000	6,000	23,000	2,000
Environmental life sciences	9,000	8,000	5,000	1,000	1,000	1,000	1,000	8,000	1,000
Computer/mathematical sciences	24,000	18,000	16,000	3,000	9,000	7,000	5,000	22,000	3,000
Computer/information sciences	18,000	14,000	12,000	3,000	8,000	5,000	4,000	16,000	3,000
Mathematics/statistics	16,000	12,000	11,000	S	4,000	4,000	2,000	15,000	2,000
Physical/related sciences	16,000	15,000	9,000	1,000	5,000	3,000	3,000	14,000	1,000
Chemistry, except biochemistry	12,000	11,000	6,000	1,000	4,000	2,000	2,000	11,000	1,000
Earth/atmospheric/ocean sciences	9,000	8,000	4,000	*	1,000	500	1,000	9,000	500
Physics/astronomy	6,000	5,000	3,000	*	2,000	1,000	1,000	5,000	500
Other physical sciences	5,000	4,000	3,000	S	1,000	1,000	1,000	5,000	S
Social/related sciences	50,000	34,000	33,000	3,000	10,000	13,000	9,000	47,000	6,000
Economics	20,000	19,000	9,000	S	6,000	3,000	3,000	19,000	2,000
Political/related sciences	23,000	19,000	14,000	2,000	4,000	6,000	4,000	21,000	3,000
Psychology	28,000	16,000	22,000	1,000	5,000	7,000	5,000	27,000	3,000
Sociology/anthropology	20,000	14,000	15,000	1,000	3,000	6,000	4,000	18,000	3,000
Other social sciences	17,000	12,000	13,000	2,000	3,000	5,000	5,000	15,000	2,000
Engineering	28,000	28,000	9,000	1,000	10,000	4,000	6,000	25,000	4,000
Aerospace/aeronautical/astronautical engineering	7,000	7,000	2,000	500	1,000	1,000	1,000	6,000	1,000
Chemical engineering	7,000	7,000	3,000	1,000	3,000	1,000	2,000	6,000	1,000
Civil/architectural engineering	12,000	11,000	3,000	500	3,000	2,000	4,000	10,000	3,000
Electrical/computer engineering	13,000	13,000	5,000	S	6,000	3,000	2,000	11,000	3,000
Industrial engineering	9,000	8,000	3,000	S	2,000	1,000	2,000	8,000	500
Mechanical engineering	15,000	15,000	4,000	1,000	4,000	2,000	2,000	14,000	1,000
Other engineering	12,000	11,000	3,000	500	3,000	1,000	2,000	11,000	1,000
S&E-related fields	39,000	26,000	29,000	3,000	11,000	9,000	10,000	37,000	7,000
Health	31,000	18,000	26,000	3,000	10,000	8,000	8,000	30,000	6,000
Science/mathematics teacher education	15,000	10,000	12,000	S	3,000	3,000	3,000	15,000	1,000
Technology/technical fields	14,000	13,000	5,000	S	4,000	3,000	3,000	12,000	1,000
Other S&E-related fields	15,000	12,000	8,000	S	3,000	3,000	3,000	14,000	1,000
Non-S&E fields	45,000	33,000	31,000	4,000	9,000	12,000	9,000	42,000	6,000
Arts/humanities	16,000	12,000	11,000	S	3,000	2,000	2,000	16,000	1,000

TABLE A-14. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Education, except science/mathematics teacher education	25,000	16,000	19,000	2,000	2,000	6,000	4,000	24,000	2,000
Management/administration	28,000	21,000	15,000	3,000	7,000	7,000	5,000	26,000	5,000
Sales/marketing	10,000	8,000	5,000	S	2,000	2,000	1,000	9,000	1,000
Social services/related	13,000	9,000	9,000	S	2,000	3,000	2,000	12,000	2,000
Other non-S&E fields	23,000	17,000	16,000	2,000	4,000	5,000	4,000	22,000	3,000
Bachelor's degrees	69,000	51,000	45,000	5,000	18,000	16,000	15,000	64,000	10,000
S&E fields	60,000	48,000	35,000	4,000	14,000	14,000	13,000	57,000	7,000
Sciences	59,000	44,000	35,000	4,000	12,000	14,000	12,000	55,000	6,000
Biological/agricultural/environmental life sciences	26,000	19,000	18,000	1,000	6,000	5,000	6,000	24,000	3,000
Agricultural sciences	12,000	9,000	8,000	S	3,000	1,000	2,000	11,000	1,000
Biological sciences	24,000	17,000	16,000	1,000	6,000	5,000	6,000	22,000	2,000
Environmental life sciences	7,000	6,000	4,000	1,000	S	1,000	1,000	7,000	1,000
Computer/mathematical sciences	21,000	17,000	15,000	2,000	6,000	6,000	4,000	21,000	3,000
Computer/information sciences	16,000	13,000	11,000	2,000	5,000	5,000	4,000	14,000	2,000
Mathematics/statistics	15,000	12,000	9,000	S	4,000	3,000	2,000	15,000	2,000
Physical/related sciences	14,000	13,000	8,000	1,000	4,000	2,000	3,000	13,000	1,000
Chemistry, except biochemistry	11,000	9,000	6,000	1,000	4,000	2,000	2,000	10,000	1,000
Earth/atmospheric/ocean sciences	8,000	7,000	3,000	S	1,000	500	1,000	8,000	500
Physics/astronomy	6,000	5,000	3,000	*	2,000	1,000	1,000	5,000	500
Other physical sciences	5,000	3,000	3,000	S	1,000	1,000	1,000	4,000	S
Social/related sciences	45,000	32,000	29,000	3,000	9,000	12,000	9,000	43,000	5,000
Economics	19,000	18,000	8,000	S	6,000	3,000	3,000	18,000	2,000
Political/related sciences	21,000	18,000	12,000	2,000	3,000	5,000	4,000	19,000	3,000
Psychology	25,000	15,000	21,000	1,000	5,000	7,000	5,000	25,000	3,000
Sociology/anthropology	20,000	13,000	15,000	1,000	3,000	6,000	3,000	18,000	2,000
Other social sciences	16,000	11,000	12,000	2,000	2,000	4,000	4,000	14,000	2,000
Engineering	25,000	24,000	8,000	1,000	8,000	4,000	6,000	22,000	4,000
Aerospace/aeronautical/astronautical engineering	7,000	6,000	2,000	S	1,000	1,000	1,000	6,000	1,000
Chemical engineering	7,000	6,000	2,000	1,000	2,000	1,000	2,000	6,000	1,000
Civil/architectural engineering	11,000	11,000	3,000	500	3,000	2,000	3,000	9,000	3,000
Electrical/computer engineering	11,000	11,000	5,000	S	5,000	3,000	2,000	9,000	2,000
Industrial engineering	8,000	8,000	3,000	S	2,000	1,000	2,000	7,000	500
Mechanical engineering	13,000	13,000	4,000	500	4,000	2,000	2,000	13,000	1,000
Other engineering	10,000	10,000	3,000	S	3,000	1,000	2,000	9,000	500
S&E-related fields	36,000	21,000	28,000	2,000	10,000	8,000	8,000	33,000	6,000

TABLE A-14. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Health	29,000	12,000	25,000	2,000	8,000	7,000	6,000	26,000	6,000
Science/mathematics teacher education	13,000	8,000	9,000	S	3,000	2,000	2,000	12,000	S
Technology/technical fields	13,000	12,000	5,000	S	4,000	3,000	3,000	11,000	1,000
Other S&E-related fields	13,000	11,000	6,000	S	3,000	2,000	3,000	12,000	1,000
Non-S&E fields	29,000	20,000	21,000	3,000	5,000	7,000	4,000	27,000	3,000
Arts/humanities	15,000	10,000	10,000	S	2,000	1,000	2,000	15,000	1,000
Education, except science/mathematics teacher education	11,000	8,000	10,000	2,000	1,000	2,000	2,000	11,000	1,000
Management/administration	18,000	14,000	11,000	1,000	4,000	5,000	3,000	17,000	2,000
Sales/marketing	5,000	4,000	4,000	S	S	1,000	1,000	5,000	S
Social services/related	5,000	4,000	3,000	S	1,000	2,000	500	5,000	S
Other non-S&E fields	11,000	7,000	8,000	S	2,000	3,000	2,000	10,000	1,000
Master's degrees	47,000	33,000	32,000	3,000	11,000	11,000	9,000	39,000	6,000
S&E fields	28,000	22,000	17,000	1,000	9,000	6,000	6,000	24,000	3,000
Sciences	25,000	18,000	16,000	1,000	8,000	5,000	4,000	21,000	3,000
Biological/agricultural/environmental life sciences	9,000	7,000	6,000	500	2,000	1,000	2,000	8,000	1,000
Agricultural sciences	4,000	3,000	3,000	S	1,000	1,000	1,000	3,000	1,000
Biological sciences	7,000	5,000	5,000	500	2,000	1,000	1,000	7,000	500
Environmental life sciences	4,000	3,000	2,000	S	1,000	500	*	4,000	S
Computer/mathematical sciences	11,000	9,000	7,000	S	6,000	2,000	2,000	9,000	1,000
Computer/information sciences	10,000	9,000	6,000	S	6,000	2,000	2,000	8,000	1,000
Mathematics/statistics	5,000	4,000	4,000	S	2,000	1,000	500	5,000	500
Physical/related sciences	7,000	6,000	3,000	*	3,000	1,000	1,000	6,000	500
Chemistry, except biochemistry	4,000	3,000	2,000	S	2,000	500	500	3,000	S
Earth/atmospheric/ocean sciences	4,000	4,000	2,000	S	1,000	S	500	4,000	500
Physics/astronomy	3,000	3,000	1,000	S	1,000	500	1,000	3,000	S
Other physical sciences	1,000	1,000	1,000	S	S	S	S	1,000	S
Social/related sciences	19,000	13,000	13,000	1,000	4,000	5,000	4,000	17,000	2,000
Economics	6,000	6,000	3,000	S	2,000	500	1,000	6,000	*
Political/related sciences	8,000	6,000	5,000	S	2,000	2,000	1,000	7,000	500
Psychology	14,000	8,000	10,000	1,000	2,000	3,000	3,000	13,000	2,000
Sociology/anthropology	5,000	3,000	4,000	S	1,000	1,000	1,000	5,000	1,000
Other social sciences	6,000	4,000	5,000	S	1,000	2,000	2,000	6,000	500
Engineering	12,000	12,000	4,000	S	5,000	1,000	3,000	10,000	1,000
Aerospace/aeronautical/astronautical engineering	2,000	2,000	500	S	1,000	S	1,000	1,000	500
Chemical engineering	3,000	3,000	1,000	S	2,000	500	1,000	2,000	S

TABLE A-14. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Civil/architectural engineering	5,000	5,000	2,000	S	2,000	1,000	2,000	4,000	1,000
Electrical/computer engineering	6,000	6,000	2,000	S	4,000	1,000	1,000	5,000	1,000
Industrial engineering	2,000	2,000	1,000	S	1,000	1,000	1,000	2,000	S
Mechanical engineering	5,000	5,000	1,000	S	1,000	500	1,000	5,000	1,000
Other engineering	5,000	5,000	2,000	S	2,000	1,000	1,000	5,000	500
S&E-related fields	20,000	12,000	17,000	1,000	4,000	4,000	3,000	18,000	2,000
Health	16,000	8,000	15,000	1,000	4,000	4,000	3,000	15,000	2,000
Science/mathematics teacher education	8,000	6,000	7,000	S	1,000	2,000	1,000	8,000	S
Technology/technical fields	4,000	3,000	2,000	S	2,000	1,000	1,000	3,000	S
Other S&E-related fields	7,000	6,000	3,000	S	1,000	1,000	1,000	7,000	1,000
Non-S&E fields	34,000	26,000	21,000	3,000	7,000	10,000	6,000	30,000	5,000
Arts/humanities	9,000	7,000	5,000	S	2,000	1,000	1,000	8,000	500
Education, except science/mathematics teacher education	21,000	12,000	16,000	1,000	2,000	5,000	3,000	20,000	2,000
Management/administration	20,000	17,000	11,000	2,000	6,000	6,000	5,000	19,000	5,000
Sales/marketing	8,000	7,000	3,000	S	2,000	1,000	1,000	8,000	S
Social services/related	11,000	7,000	9,000	S	2,000	3,000	2,000	10,000	1,000
Other non-S&E fields	12,000	10,000	8,000	S	2,000	3,000	2,000	10,000	1,000
Doctorate degrees	11,000	8,000	6,000	500	3,000	2,000	2,000	10,000	1,000
S&E fields	5,000	4,000	3,000	500	3,000	2,000	1,000	4,000	1,000
Sciences	5,000	4,000	3,000	500	2,000	2,000	1,000	4,000	1,000
Biological/agricultural/environmental life sciences	3,000	2,000	2,000	*	2,000	1,000	1,000	3,000	500
Agricultural sciences	1,000	1,000	500	S	500	500	1,000	500	*
Biological sciences	3,000	2,000	2,000	*	2,000	1,000	1,000	3,000	500
Environmental life sciences	500	500	500	S	*	*	*	500	S
Computer/mathematical sciences	2,000	1,000	2,000	S	1,000	2,000	500	1,000	*
Computer/information sciences	1,000	1,000	500	S	500	500	500	1,000	*
Mathematics/statistics	2,000	1,000	2,000	S	500	2,000	500	1,000	*
Physical/related sciences	2,000	2,000	1,000	*	1,000	500	500	2,000	500
Chemistry, except biochemistry	2,000	1,000	1,000	*	1,000	500	500	1,000	500
Earth/atmospheric/ocean sciences	1,000	1,000	500	S	500	*	*	1,000	*
Physics/astronomy	1,000	1,000	500	S	500	*	500	1,000	*
Other physical sciences	1,000	1,000	500	S	*	S	S	1,000	S
Social/related sciences	2,000	1,000	1,000	*	1,000	500	500	2,000	500
Economics	1,000	1,000	500	S	500	500	500	500	*
Political/related sciences	1,000	1,000	500	S	500	500	500	1,000	*

TABLE A-14. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Psychology	1,000	1,000	1,000	*	500	500	500	1,000	500
Sociology/anthropology	1,000	500	1,000	*	500	500	500	1,000	*
Other social sciences	1,000	1,000	500	*	1,000	500	500	1,000	*
Engineering	2,000	2,000	500	S	1,000	500	500	1,000	500
Aerospace/aeronautical/astronautical engineering	1,000	1,000	*	S	1,000	*	*	500	S
Chemical engineering	1,000	1,000	500	S	1,000	*	500	500	*
Civil/architectural engineering	1,000	1,000	500	S	500	*	*	500	*
Electrical/computer engineering	1,000	1,000	500	S	1,000	500	500	1,000	*
Industrial engineering	500	500	500	S	500	*	*	500	S
Mechanical engineering	1,000	1,000	500	S	500	*	*	500	*
Other engineering	1,000	1,000	500	S	1,000	*	500	1,000	*
S&E-related fields	4,000	4,000	3,000	*	1,000	1,000	1,000	4,000	*
Health	3,000	1,000	2,000	*	1,000	1,000	1,000	2,000	*
Science/mathematics teacher education	2,000	2,000	1,000	S	S	S	S	2,000	S
Technology/technical fields	1,000	1,000	S	S	500	S	S	1,000	S
Other S&E-related fields	3,000	3,000	1,000	S	S	S	S	3,000	S
Non-S&E fields	8,000	6,000	4,000	S	1,000	1,000	1,000	7,000	500
Arts/humanities	2,000	2,000	1,000	S	S	S	500	2,000	S
Education, except science/mathematics teacher education	6,000	5,000	3,000	S	500	1,000	1,000	6,000	500
Management/administration	2,000	2,000	1,000	S	1,000	S	S	2,000	S
Sales/marketing	500	500	500	S	500	S	S	500	S
Social services/related	3,000	3,000	1,000	S	500	1,000	S	3,000	S
Other non-S&E fields	3,000	2,000	2,000	S	1,000	1,000	S	3,000	S

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] "Other" includes Native Hawaiian/Other Pacific Islander and non-Hispanic respondents reporting 2 or more races.

[b] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Standard errors of less than 500 are rounded up to 500 and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-15. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All degree levels and fields[a]	82,000	28,000	42,000	37,000	31,000	43,000	23,000	29,000	25,000	45,000
S&E fields	67,000	22,000	31,000	27,000	20,000	31,000	15,000	22,000	20,000	34,000
Sciences	64,000	20,000	28,000	24,000	19,000	29,000	14,000	18,000	19,000	31,000
Biological/agricultural/environmental life sciences	27,000	7,000	10,000	10,000	9,000	12,000	7,000	10,000	8,000	12,000
Agricultural sciences	12,000	3,000	5,000	5,000	4,000	4,000	3,000	6,000	4,000	5,000
Biological sciences	25,000	6,000	9,000	10,000	8,000	10,000	6,000	8,000	6,000	10,000
Environmental life sciences	9,000	2,000	3,000	3,000	3,000	5,000	2,000	2,000	3,000	4,000
Computer/mathematical sciences	24,000	8,000	9,000	9,000	8,000	11,000	5,000	8,000	6,000	11,000
Computer/information sciences	18,000	6,000	7,000	8,000	7,000	10,000	3,000	6,000	5,000	9,000
Mathematics/statistics	16,000	5,000	6,000	6,000	3,000	7,000	4,000	5,000	4,000	7,000
Physical/related sciences	16,000	5,000	8,000	5,000	3,000	6,000	3,000	6,000	5,000	7,000
Chemistry, except biochemistry	12,000	3,000	6,000	4,000	2,000	4,000	3,000	5,000	3,000	5,000
Earth/atmospheric/ocean sciences	9,000	3,000	4,000	3,000	2,000	3,000	1,000	3,000	4,000	4,000
Physics/astronomy	6,000	4,000	3,000	2,000	2,000	3,000	1,000	1,000	1,000	3,000
Other physical sciences	5,000	1,000	3,000	1,000	1,000	2,000	*	2,000	2,000	2,000
Social/related sciences	50,000	15,000	21,000	18,000	14,000	24,000	10,000	12,000	14,000	23,000
Economics	20,000	6,000	11,000	6,000	6,000	8,000	3,000	4,000	5,000	10,000
Political/related sciences	23,000	5,000	11,000	8,000	6,000	13,000	4,000	5,000	5,000	8,000
Psychology	28,000	9,000	12,000	13,000	7,000	14,000	7,000	8,000	8,000	13,000
Sociology/anthropology	20,000	6,000	9,000	8,000	5,000	12,000	3,000	5,000	8,000	10,000
Other social sciences	17,000	5,000	6,000	6,000	4,000	8,000	2,000	5,000	3,000	8,000
Engineering	28,000	8,000	11,000	13,000	7,000	13,000	7,000	10,000	8,000	12,000
Aerospace/aeronautical/astronautical engineering	7,000	1,000	3,000	1,000	1,000	3,000	1,000	2,000	1,000	4,000
Chemical engineering	7,000	2,000	3,000	3,000	1,000	3,000	2,000	3,000	1,000	3,000
Civil/architectural engineering	12,000	4,000	6,000	4,000	3,000	5,000	3,000	4,000	3,000	5,000
Electrical/computer engineering	13,000	3,000	5,000	6,000	4,000	6,000	3,000	5,000	4,000	8,000
Industrial engineering	9,000	2,000	3,000	3,000	1,000	5,000	3,000	2,000	1,000	3,000
Mechanical engineering	15,000	4,000	5,000	7,000	3,000	6,000	3,000	5,000	3,000	5,000
Other engineering	12,000	2,000	4,000	5,000	3,000	4,000	2,000	4,000	5,000	4,000
S&E-related fields	39,000	14,000	21,000	22,000	14,000	23,000	12,000	16,000	13,000	18,000
Health	31,000	12,000	19,000	18,000	14,000	21,000	11,000	13,000	10,000	16,000
Science/mathematics teacher education	15,000	5,000	7,000	6,000	4,000	7,000	3,000	6,000	4,000	5,000
Technology/technical fields	14,000	4,000	4,000	7,000	5,000	6,000	3,000	4,000	4,000	6,000
Other S&E-related fields	15,000	6,000	6,000	6,000	5,000	8,000	2,000	5,000	5,000	5,000
Non-S&E fields	45,000	14,000	23,000	19,000	14,000	22,000	11,000	16,000	13,000	20,000
Arts/humanities	16,000	6,000	6,000	6,000	3,000	6,000	2,000	5,000	4,000	8,000
Education, except science/mathematics teacher education	25,000	6,000	11,000	9,000	7,000	9,000	6,000	7,000	7,000	9,000

TABLE A-15. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Management/administration	28,000	8,000	11,000	12,000	8,000	13,000	6,000	10,000	8,000	12,000
Sales/marketing	10,000	3,000	4,000	4,000	4,000	3,000	S	4,000	2,000	4,000
Social services/related	13,000	3,000	6,000	5,000	3,000	6,000	3,000	3,000	3,000	5,000
Other non-S&E fields	23,000	7,000	10,000	9,000	6,000	10,000	5,000	6,000	5,000	11,000
Bachelor's degrees	69,000	24,000	32,000	33,000	25,000	33,000	18,000	24,000	22,000	37,000
S&E fields	60,000	19,000	28,000	25,000	19,000	27,000	14,000	19,000	19,000	30,000
Sciences	59,000	18,000	26,000	23,000	19,000	26,000	14,000	16,000	18,000	29,000
Biological/agricultural/environmental life sciences	26,000	6,000	9,000	10,000	9,000	11,000	7,000	10,000	7,000	11,000
Agricultural sciences	12,000	3,000	4,000	4,000	4,000	4,000	3,000	6,000	3,000	5,000
Biological sciences	24,000	5,000	8,000	10,000	8,000	10,000	6,000	7,000	6,000	9,000
Environmental life sciences	7,000	1,000	3,000	3,000	3,000	4,000	2,000	2,000	2,000	4,000
Computer/mathematical sciences	21,000	7,000	8,000	9,000	7,000	11,000	5,000	7,000	6,000	10,000
Computer/information sciences	16,000	5,000	6,000	7,000	6,000	9,000	3,000	5,000	4,000	8,000
Mathematics/statistics	15,000	5,000	6,000	6,000	3,000	6,000	4,000	5,000	4,000	6,000
Physical/related sciences	14,000	5,000	7,000	4,000	3,000	5,000	3,000	5,000	5,000	6,000
Chemistry, except biochemistry	11,000	3,000	5,000	3,000	2,000	4,000	3,000	5,000	3,000	5,000
Earth/atmospheric/ocean sciences	8,000	3,000	3,000	3,000	1,000	3,000	1,000	2,000	3,000	3,000
Physics/astronomy	6,000	3,000	2,000	1,000	1,000	2,000	1,000	1,000	1,000	3,000
Other physical sciences	5,000	1,000	3,000	1,000	S	2,000	S	1,000	2,000	2,000
Social/related sciences	45,000	13,000	19,000	17,000	13,000	22,000	10,000	11,000	14,000	21,000
Economics	19,000	5,000	11,000	6,000	6,000	8,000	3,000	4,000	5,000	9,000
Political/related sciences	21,000	5,000	10,000	7,000	6,000	12,000	4,000	5,000	4,000	8,000
Psychology	25,000	8,000	10,000	11,000	6,000	13,000	7,000	6,000	8,000	11,000
Sociology/anthropology	20,000	6,000	9,000	7,000	5,000	11,000	3,000	5,000	8,000	10,000
Other social sciences	16,000	5,000	6,000	6,000	4,000	7,000	2,000	4,000	3,000	8,000
Engineering	25,000	7,000	10,000	11,000	7,000	11,000	6,000	9,000	7,000	12,000
Aerospace/aeronautical/astronautical engineering	7,000	1,000	2,000	1,000	1,000	3,000	1,000	2,000	1,000	4,000
Chemical engineering	7,000	1,000	3,000	2,000	1,000	3,000	1,000	3,000	1,000	2,000
Civil/architectural engineering	11,000	4,000	5,000	3,000	3,000	5,000	3,000	3,000	2,000	4,000
Electrical/computer engineering	11,000	3,000	4,000	5,000	4,000	5,000	3,000	4,000	3,000	6,000
Industrial engineering	8,000	2,000	3,000	2,000	1,000	5,000	3,000	2,000	1,000	2,000
Mechanical engineering	13,000	4,000	5,000	7,000	3,000	6,000	3,000	5,000	3,000	4,000
Other engineering	10,000	2,000	4,000	5,000	3,000	3,000	1,000	3,000	4,000	4,000
S&E-related fields	36,000	12,000	17,000	18,000	12,000	18,000	9,000	13,000	11,000	15,000
Health	29,000	10,000	15,000	15,000	11,000	16,000	8,000	10,000	9,000	12,000
Science/mathematics teacher education	13,000	3,000	5,000	5,000	3,000	5,000	2,000	6,000	3,000	3,000
Technology/technical fields	13,000	3,000	4,000	6,000	4,000	6,000	3,000	4,000	4,000	5,000

TABLE A-15. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Other S&E-related fields	13,000	4,000	5,000	5,000	3,000	7,000	2,000	4,000	5,000	5,000
Non-S&E fields	29,000	8,000	10,000	13,000	8,000	13,000	5,000	10,000	8,000	13,000
Arts/humanities	15,000	5,000	6,000	5,000	3,000	6,000	2,000	3,000	3,000	7,000
Education, except science/mathematics teacher education	11,000	3,000	4,000	5,000	3,000	4,000	3,000	6,000	4,000	4,000
Management/administration	18,000	4,000	5,000	7,000	5,000	8,000	3,000	6,000	5,000	7,000
Sales/marketing	5,000	1,000	3,000	3,000	1,000	2,000	S	3,000	2,000	1,000
Social services/related	5,000	1,000	2,000	2,000	1,000	2,000	S	1,000	S	3,000
Other non-S&E fields	11,000	3,000	4,000	4,000	3,000	4,000	3,000	3,000	3,000	5,000
Master's degrees	47,000	14,000	22,000	17,000	15,000	24,000	11,000	15,000	13,000	21,000
S&E fields	28,000	8,000	12,000	10,000	6,000	13,000	5,000	9,000	7,000	13,000
Sciences	25,000	8,000	11,000	8,000	6,000	12,000	4,000	8,000	7,000	12,000
Biological/agricultural/environmental life sciences	9,000	2,000	4,000	3,000	2,000	3,000	2,000	3,000	4,000	4,000
Agricultural sciences	4,000	S	1,000	1,000	1,000	1,000	1,000	1,000	3,000	1,000
Biological sciences	7,000	2,000	4,000	2,000	2,000	3,000	1,000	3,000	1,000	4,000
Environmental life sciences	4,000	1,000	1,000	2,000	500	1,000	1,000	1,000	2,000	2,000
Computer/mathematical sciences	11,000	4,000	5,000	3,000	2,000	5,000	1,000	4,000	3,000	4,000
Computer/information sciences	10,000	4,000	4,000	3,000	2,000	5,000	1,000	3,000	2,000	4,000
Mathematics/statistics	5,000	2,000	3,000	2,000	1,000	2,000	1,000	1,000	1,000	2,000
Physical/related sciences	7,000	2,000	2,000	2,000	2,000	3,000	1,000	2,000	3,000	3,000
Chemistry, except biochemistry	4,000	1,000	2,000	1,000	1,000	2,000	500	1,000	1,000	2,000
Earth/atmospheric/ocean sciences	4,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	3,000	2,000
Physics/astronomy	3,000	1,000	1,000	1,000	1,000	1,000	S	1,000	1,000	2,000
Other physical sciences	1,000	S	S	S	S	500	S	S	S	S
Social/related sciences	19,000	6,000	8,000	7,000	4,000	10,000	4,000	6,000	4,000	9,000
Economics	6,000	3,000	3,000	2,000	1,000	3,000	1,000	1,000	1,000	2,000
Political/related sciences	8,000	3,000	3,000	3,000	1,000	5,000	1,000	2,000	1,000	2,000
Psychology	14,000	3,000	7,000	4,000	4,000	6,000	3,000	5,000	3,000	8,000
Sociology/anthropology	5,000	1,000	2,000	3,000	1,000	2,000	2,000	1,000	1,000	2,000
Other social sciences	6,000	2,000	2,000	2,000	1,000	4,000	1,000	3,000	1,000	2,000
Engineering	12,000	3,000	5,000	5,000	2,000	5,000	2,000	3,000	3,000	6,000
Aerospace/aeronautical/astronautical engineering	2,000	500	1,000	500	S	1,000	500	1,000	1,000	1,000
Chemical engineering	3,000	1,000	1,000	1,000	500	1,000	500	1,000	1,000	1,000
Civil/architectural engineering	5,000	1,000	2,000	2,000	1,000	2,000	1,000	1,000	2,000	1,000
Electrical/computer engineering	6,000	2,000	2,000	2,000	1,000	3,000	1,000	2,000	2,000	4,000
Industrial engineering	2,000	500	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Mechanical engineering	5,000	1,000	2,000	2,000	1,000	2,000	1,000	1,000	1,000	3,000
Other engineering	5,000	1,000	2,000	2,000	1,000	2,000	1,000	1,000	2,000	2,000

TABLE A-15. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
S&E-related fields	20,000	6,000	10,000	9,000	8,000	11,000	5,000	7,000	5,000	8,000
Health	16,000	4,000	9,000	8,000	7,000	9,000	4,000	6,000	5,000	7,000
Science/mathematics teacher education	8,000	4,000	4,000	4,000	3,000	4,000	1,000	2,000	3,000	3,000
Technology/technical fields	4,000	1,000	2,000	1,000	2,000	2,000	1,000	1,000	S	2,000
Other S&E-related fields	7,000	3,000	3,000	4,000	3,000	3,000	S	2,000	1,000	3,000
Non-S&E fields	34,000	10,000	16,000	13,000	11,000	16,000	8,000	11,000	9,000	15,000
Arts/humanities	9,000	2,000	4,000	2,000	1,000	3,000	1,000	4,000	2,000	4,000
Education, except science/mathematics teacher education	21,000	5,000	10,000	8,000	5,000	8,000	5,000	5,000	6,000	7,000
Management/administration	20,000	7,000	9,000	9,000	5,000	10,000	5,000	7,000	6,000	9,000
Sales/marketing	8,000	3,000	3,000	3,000	4,000	2,000	S	3,000	2,000	4,000
Social services/related	11,000	3,000	5,000	5,000	3,000	6,000	3,000	3,000	2,000	4,000
Other non-S&E fields	12,000	3,000	5,000	4,000	4,000	5,000	2,000	3,000	3,000	5,000
Doctorate degrees	11,000	3,000	5,000	4,000	2,000	5,000	2,000	4,000	2,000	6,000
S&E fields	5,000	2,000	3,000	2,000	1,000	3,000	1,000	2,000	1,000	3,000
Sciences	5,000	2,000	3,000	2,000	1,000	2,000	1,000	2,000	1,000	3,000
Biological/agricultural/environmental life sciences	3,000	1,000	1,000	1,000	1,000	2,000	1,000	1,000	1,000	1,000
Agricultural sciences	1,000	*	500	500	500	500	500	500	1,000	500
Biological sciences	3,000	1,000	1,000	1,000	1,000	2,000	1,000	1,000	500	1,000
Environmental life sciences	500	*	*	500	*	500	*	500	500	500
Computer/mathematical sciences	2,000	500	2,000	1,000	500	1,000	500	500	500	1,000
Computer/information sciences	1,000	500	500	500	500	500	*	500	500	1,000
Mathematics/statistics	2,000	500	2,000	500	500	500	500	500	500	500
Physical/related sciences	2,000	1,000	1,000	1,000	500	1,000	500	1,000	1,000	1,000
Chemistry, except biochemistry	2,000	500	1,000	1,000	500	1,000	500	500	500	1,000
Earth/atmospheric/ocean sciences	1,000	500	500	500	500	500	500	500	500	500
Physics/astronomy	1,000	1,000	1,000	1,000	500	1,000	500	500	500	1,000
Other physical sciences	1,000	*	*	S	S	1,000	*	*	*	1,000
Social/related sciences	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000	1,000	1,000
Economics	1,000	500	500	500	500	500	500	500	500	500
Political/related sciences	1,000	500	1,000	500	500	500	500	500	500	500
Psychology	1,000	500	1,000	1,000	500	1,000	500	500	1,000	1,000
Sociology/anthropology	1,000	500	500	500	500	1,000	500	1,000	500	500
Other social sciences	1,000	500	1,000	1,000	500	500	*	500	500	500
Engineering	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000	1,000	1,000
Aerospace/aeronautical/astronautical engineering	1,000	*	*	500	*	500	*	1,000	*	500
Chemical engineering	1,000	500	500	500	500	500	500	500	500	500
Civil/architectural engineering	1,000	500	500	500	*	500	*	500	500	500

TABLE A-15. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Electrical/computer engineering	1,000	500	500	500	500	1,000	500	500	500	1,000
Industrial engineering	500	S	*	500	*	500	S	500	*	500
Mechanical engineering	1,000	500	500	500	500	500	500	500	500	500
Other engineering	1,000	500	500	500	500	500	500	500	500	500
S&E-related fields	4,000	2,000	2,000	1,000	1,000	2,000	1,000	3,000	500	1,000
Health	3,000	500	2,000	1,000	500	1,000	1,000	500	500	1,000
Science/mathematics teacher education	2,000	S	S	S	500	2,000	S	S	S	500
Technology/technical fields	1,000	S	S	S	S	S	S	S	S	1,000
Other S&E-related fields	3,000	S	S	S	S	S	S	S	S	500
Non-S&E fields	8,000	2,000	3,000	3,000	1,000	3,000	2,000	2,000	2,000	5,000
Arts/humanities	2,000	500	1,000	1,000	500	1,000	S	500	S	1,000
Education, except science/mathematics teacher education	6,000	1,000	2,000	2,000	1,000	2,000	1,000	2,000	1,000	5,000
Management/administration	2,000	1,000	1,000	1,000	S	1,000	S	S	S	1,000
Sales/marketing	500	S	S	S	S	S	S	S	S	S
Social services/related	3,000	S	500	2,000	1,000	1,000	1,000	500	S	1,000
Other non-S&E fields	3,000	1,000	1,000	2,000	S	2,000	500	500	1,000	1,000

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. See http://sestat.nsf.gov/docs/location.html for details on states included in each division. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-16. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/ university	Other	Total	Federal	State/ local
All degree levels and occupations[a]	82,000	74,000	73,000	29,000	32,000	42,000	26,000	33,000	34,000	21,000	28,000
S&E occupations	39,000	33,000	30,000	8,000	9,000	14,000	13,000	6,000	15,000	8,000	11,000
Scientists	34,000	28,000	24,000	7,000	9,000	13,000	12,000	6,000	13,000	7,000	10,000
Biological/agricultural/other life scientists	10,000	8,000	7,000	2,000	3,000	7,000	7,000	2,000	5,000	3,000	4,000
Agricultural/food scientists	4,000	3,000	3,000	500	1,000	2,000	2,000	S	2,000	1,000	1,000
Biological/medical scientists	9,000	6,000	5,000	1,000	2,000	6,000	6,000	*	4,000	2,000	3,000
Environmental life scientists	4,000	3,000	3,000	1,000	1,000	1,000	1,000	S	3,000	2,000	2,000
Postsecondary teachers-life/related sciences	3,000	S	S	S	S	3,000	2,000	2,000	S	S	S
Computer/mathematical scientists	27,000	25,000	22,000	5,000	6,000	8,000	7,000	4,000	9,000	6,000	6,000
Computer/information scientists	26,000	24,000	22,000	5,000	7,000	7,000	6,000	3,000	8,000	5,000	5,000
Mathematical scientists	6,000	4,000	4,000	1,000	1,000	1,000	1,000	1,000	3,000	2,000	2,000
Postsecondary teachers-computer/mathematical sciences	4,000	500	500	500	S	4,000	4,000	3,000	S	S	S
Physical/related scientists	9,000	8,000	7,000	1,000	1,000	4,000	4,000	1,000	4,000	2,000	4,000
Chemists, except biochemists	6,000	6,000	6,000	500	500	1,000	1,000	S	1,000	1,000	1,000
Earth/atmospheric/ocean scientists	5,000	4,000	4,000	1,000	500	1,000	1,000	S	2,000	1,000	2,000
Physicists/astronomers	2,000	2,000	1,000	500	500	1,000	1,000	S	500	500	500
Postsecondary teachers-physical/related sciences	3,000	*	S	S	S	3,000	3,000	1,000	S	S	S
Other physical/related scientists	4,000	2,000	2,000	1,000	500	2,000	2,000	S	3,000	1,000	3,000
Social/related scientists	14,000	11,000	8,000	4,000	5,000	6,000	5,000	4,000	6,000	3,000	5,000
Economists	3,000	3,000	2,000	2,000	500	1,000	1,000	S	2,000	1,000	1,000
Political/related scientists	2,000	2,000	1,000	*	1,000	500	500	S	2,000	1,000	2,000
Postsecondary teachers-social/related sciences	4,000	1,000	*	S	S	4,000	3,000	2,000	*	S	*
Psychologists	6,000	5,000	3,000	3,000	2,000	4,000	3,000	3,000	2,000	1,000	2,000
Sociologists/anthropologists	3,000	2,000	2,000	1,000	1,000	1,000	1,000	S	1,000	1,000	500
Other social/related scientists	9,000	8,000	6,000	3,000	5,000	2,000	2,000	500	4,000	1,000	4,000
Engineers	18,000	17,000	17,000	5,000	3,000	3,000	3,000	1,000	7,000	5,000	5,000
Aerospace/aeronautical/astronautical engineers	5,000	4,000	4,000	2,000	500	1,000	500	S	2,000	2,000	*
Chemical engineers	3,000	3,000	3,000	1,000	1,000	500	500	S	2,000	2,000	S
Civil/architectural/sanitary engineers	8,000	7,000	6,000	2,000	1,000	500	500	S	4,000	2,000	4,000
Electrical/computer hardware engineers	8,000	8,000	8,000	1,000	1,000	1,000	1,000	S	2,000	2,000	1,000
Industrial engineers	5,000	5,000	4,000	1,000	1,000	500	500	S	1,000	1,000	500
Mechanical engineers	7,000	7,000	7,000	1,000	1,000	1,000	1,000	S	2,000	2,000	1,000
Postsecondary teachers-engineering	2,000	S	S	S	S	2,000	2,000	1,000	S	S	S
Other engineers	12,000	12,000	12,000	2,000	2,000	1,000	1,000	S	4,000	3,000	3,000
S&E-related occupations	48,000	37,000	34,000	15,000	20,000	27,000	18,000	23,000	18,000	10,000	15,000
Health-related occupations	32,000	30,000	29,000	13,000	20,000	18,000	17,000	9,000	15,000	9,000	13,000
S&E managers	14,000	13,000	12,000	2,000	4,000	3,000	3,000	1,000	6,000	3,000	5,000

TABLE A-16. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/ university	Other	Total	Federal	State/ local
S&E precollege teachers	21,000	2,000	1,000	S	S	21,000	S	21,000	1,000	S	1,000
S&E technicians/technologists	15,000	14,000	13,000	4,000	2,000	4,000	3,000	2,000	6,000	3,000	5,000
Other S&E-related occupations	10,000	10,000	9,000	5,000	3,000	1,000	1,000	1,000	2,000	1,000	2,000
Non-S&E occupations	70,000	60,000	61,000	22,000	20,000	29,000	13,000	26,000	25,000	15,000	20,000
Art/humanities/related occupations	17,000	17,000	14,000	7,000	3,000	4,000	4,000	1,000	4,000	3,000	3,000
Management-related occupations	34,000	31,000	28,000	8,000	9,000	8,000	7,000	4,000	12,000	8,000	9,000
Non-S&E managers	26,000	23,000	22,000	2,000	5,000	9,000	4,000	8,000	8,000	5,000	6,000
Non-S&E postsecondary teachers	7,000	1,000	1,000	S	*	7,000	6,000	3,000	2,000	1,000	1,000
Non-S&E precollege/other teachers	21,000	5,000	2,000	2,000	4,000	21,000	1,000	21,000	2,000	S	2,000
Sales/marketing occupations	32,000	32,000	31,000	11,000	6,000	3,000	3,000	S	3,000	2,000	3,000
Social services/related occupations	17,000	14,000	6,000	4,000	12,000	8,000	4,000	7,000	10,000	2,000	9,000
Other non-S&E occupations	41,000	37,000	35,000	14,000	12,000	12,000	8,000	9,000	20,000	12,000	15,000
Bachelor's degrees, all occupations	69,000	61,000	62,000	20,000	26,000	30,000	20,000	24,000	30,000	16,000	24,000
S&E occupations	32,000	29,000	28,000	6,000	7,000	9,000	9,000	4,000	12,000	6,000	9,000
Scientists	27,000	24,000	22,000	5,000	7,000	9,000	9,000	3,000	10,000	5,000	8,000
Biological/agricultural/other life scientists	9,000	7,000	6,000	2,000	1,000	6,000	6,000	1,000	4,000	2,000	3,000
Agricultural/food scientists	3,000	3,000	3,000	S	S	1,000	1,000	S	2,000	1,000	1,000
Biological/medical scientists	7,000	5,000	4,000	1,000	1,000	5,000	5,000	S	3,000	1,000	3,000
Environmental life scientists	4,000	3,000	2,000	S	500	S	S	S	2,000	2,000	1,000
Postsecondary teachers-life/related sciences	2,000	S	S	S	S	2,000	1,000	S	S	S	S
Computer/mathematical scientists	24,000	23,000	21,000	4,000	6,000	6,000	5,000	3,000	6,000	4,000	4,000
Computer/information scientists	23,000	22,000	20,000	4,000	6,000	5,000	4,000	3,000	6,000	4,000	4,000
Mathematical scientists	5,000	4,000	3,000	S	S	1,000	1,000	S	2,000	2,000	1,000
Postsecondary teachers-computer/mathematical sciences	2,000	S	S	S	S	2,000	2,000	2,000	S	S	S
Physical/related scientists	8,000	7,000	6,000	1,000	500	3,000	3,000	S	4,000	1,000	3,000
Chemists, except biochemists	6,000	5,000	5,000	*	*	1,000	1,000	S	1,000	500	1,000
Earth/atmospheric/ocean scientists	3,000	3,000	3,000	1,000	S	1,000	1,000	S	2,000	1,000	2,000
Physicists/astronomers	1,000	1,000	1,000	S	S	1,000	1,000	S	*	*	S
Postsecondary teachers-physical/related sciences	2,000	S	S	S	S	2,000	2,000	S	S	S	S
Other physical/related scientists	4,000	2,000	2,000	S	S	2,000	2,000	S	3,000	500	3,000
Social/related scientists	8,000	7,000	5,000	2,000	4,000	3,000	3,000	2,000	4,000	1,000	4,000
Economists	2,000	2,000	1,000	S	S	500	500	S	500	500	500
Political/related scientists	2,000	2,000	1,000	S	1,000	S	S	S	1,000	500	1,000
Postsecondary teachers-social/related sciences	2,000	S	S	S	S	2,000	1,000	1,000	S	S	S
Psychologists	3,000	2,000	2,000	S	S	2,000	2,000	1,000	1,000	S	S
Sociologists/anthropologists	2,000	2,000	2,000	S	S	1,000	1,000	S	1,000	S	S
Other social/related scientists	6,000	6,000	4,000	2,000	4,000	2,000	2,000	S	3,000	1,000	3,000

TABLE A-16. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Engineers	17,000	16,000	15,000	3,000	2,000	2,000	2,000	1,000	6,000	4,000	5,000
Aerospace/aeronautical/astronautical engineers	4,000	3,000	3,000	S	*	1,000	*	S	1,000	1,000	S
Chemical engineers	3,000	2,000	2,000	500	S	500	500	S	2,000	2,000	S
Civil/architectural/sanitary engineers	7,000	6,000	6,000	2,000	S	500	500	S	4,000	2,000	4,000
Electrical/computer hardware engineers	7,000	7,000	7,000	1,000	1,000	1,000	1,000	S	2,000	2,000	1,000
Industrial engineers	4,000	4,000	4,000	1,000	1,000	500	500	S	1,000	1,000	500
Mechanical engineers	6,000	6,000	5,000	1,000	1,000	1,000	1,000	S	1,000	1,000	1,000
Postsecondary teachers-engineering	1,000	S	S	S	S	1,000	1,000	500	S	S	S
Other engineers	11,000	11,000	10,000	2,000	2,000	1,000	1,000	S	3,000	3,000	3,000
S&E-related occupations	39,000	32,000	29,000	9,000	18,000	21,000	14,000	16,000	14,000	7,000	13,000
Health-related occupations	31,000	27,000	25,000	7,000	17,000	14,000	13,000	7,000	12,000	7,000	11,000
S&E managers	12,000	11,000	10,000	2,000	4,000	2,000	2,000	S	4,000	1,000	3,000
S&E precollege teachers	14,000	S	S	S	S	14,000	S	14,000	S	S	S
S&E technicians/technologists	14,000	13,000	12,000	3,000	2,000	3,000	3,000	1,000	5,000	3,000	4,000
Other S&E-related occupations	9,000	8,000	7,000	4,000	1,000	1,000	1,000	S	2,000	1,000	1,000
Non-S&E occupations	58,000	52,000	52,000	17,000	15,000	21,000	9,000	19,000	21,000	13,000	17,000
Art/humanities/related occupations	14,000	13,000	11,000	5,000	2,000	2,000	2,000	1,000	3,000	1,000	3,000
Management-related occupations	28,000	26,000	24,000	7,000	7,000	6,000	5,000	3,000	8,000	6,000	6,000
Non-S&E managers	21,000	19,000	18,000	2,000	3,000	4,000	2,000	3,000	6,000	4,000	4,000
Non-S&E postsecondary teachers	3,000	1,000	1,000	S	S	3,000	3,000	1,000	1,000	S	S
Non-S&E precollege/other teachers	17,000	4,000	2,000	2,000	3,000	17,000	500	17,000	1,000	S	1,000
Sales/marketing occupations	28,000	28,000	26,000	10,000	5,000	3,000	3,000	S	3,000	2,000	3,000
Social services/related occupations	12,000	8,000	3,000	1,000	8,000	4,000	3,000	3,000	7,000	S	7,000
Other non-S&E occupations	36,000	32,000	30,000	10,000	11,000	8,000	5,000	6,000	17,000	10,000	13,000
Master's degrees, all occupations	47,000	38,000	33,000	12,000	16,000	26,000	13,000	22,000	19,000	11,000	15,000
S&E occupations	20,000	16,000	15,000	6,000	5,000	9,000	7,000	5,000	8,000	6,000	5,000
Scientists	18,000	14,000	13,000	5,000	5,000	8,000	7,000	5,000	7,000	5,000	5,000
Biological/agricultural/other life scientists	5,000	3,000	2,000	1,000	2,000	3,000	3,000	1,000	2,000	2,000	2,000
Agricultural/food scientists	2,000	1,000	1,000	S	S	2,000	2,000	S	1,000	1,000	S
Biological/medical scientists	4,000	3,000	2,000	S	2,000	2,000	2,000	S	2,000	1,000	2,000
Environmental life scientists	2,000	1,000	S	S	1,000	S	S	S	1,000	1,000	1,000
Postsecondary teachers-life/related sciences	2,000	S	S	S	S	2,000	1,000	1,000	S	S	S
Computer/mathematical scientists	14,000	12,000	11,000	2,000	2,000	5,000	4,000	3,000	5,000	4,000	3,000
Computer/information scientists	13,000	12,000	11,000	2,000	2,000	4,000	4,000	2,000	5,000	4,000	3,000
Mathematical scientists	3,000	2,000	2,000	S	500	1,000	1,000	S	1,000	1,000	1,000
Postsecondary teachers-computer/mathematical sciences	3,000	S	S	S	S	3,000	2,000	2,000	S	S	S

TABLE A-16. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/ university	Other	Total	Federal	State/ local
Physical/related scientists	5,000	4,000	4,000	1,000	1,000	2,000	2,000	1,000	2,000	1,000	1,000
Chemists, except biochemists	3,000	2,000	2,000	S	S	1,000	1,000	S	1,000	1,000	500
Earth/atmospheric/ocean scientists	3,000	3,000	3,000	1,000	S	1,000	1,000	S	1,000	1,000	500
Physicists/astronomers	1,000	1,000	1,000	S	S	500	500	S	500	500	S
Postsecondary teachers-physical/related sciences	2,000	S	S	S	S	2,000	2,000	1,000	S	S	S
Other physical/related scientists	1,000	1,000	1,000	S	500	S	S	S	1,000	1,000	1,000
Social/related scientists	10,000	8,000	5,000	4,000	3,000	5,000	3,000	3,000	4,000	2,000	3,000
Economists	3,000	2,000	2,000	S	500	1,000	1,000	S	2,000	1,000	1,000
Political/related scientists	1,000	1,000	S	S	S	*	*	S	1,000	1,000	S
Postsecondary teachers-social/related sciences	2,000	S	S	S	S	2,000	2,000	2,000	S	S	S
Psychologists	6,000	4,000	2,000	2,000	2,000	3,000	2,000	3,000	2,000	1,000	2,000
Sociologists/anthropologists	2,000	1,000	500	1,000	S	1,000	1,000	S	500	S	500
Other social/related scientists	6,000	5,000	4,000	2,000	2,000	1,000	1,000	S	2,000	1,000	2,000
Engineers	9,000	9,000	9,000	3,000	2,000	2,000	2,000	1,000	4,000	3,000	2,000
Aerospace/aeronautical/astronautical engineers	4,000	3,000	2,000	S	S	500	500	S	2,000	2,000	S
Chemical engineers	2,000	2,000	2,000	S	S	500	500	S	S	S	S
Civil/architectural/sanitary engineers	3,000	3,000	3,000	1,000	S	500	500	S	2,000	1,000	2,000
Electrical/computer hardware engineers	5,000	5,000	5,000	1,000	1,000	1,000	1,000	S	1,000	1,000	1,000
Industrial engineers	3,000	3,000	2,000	S	S	*	*	S	1,000	1,000	S
Mechanical engineers	4,000	4,000	4,000	500	500	1,000	1,000	S	1,000	1,000	*
Postsecondary teachers-engineering	1,000	S	S	S	S	1,000	1,000	1,000	S	S	S
Other engineers	6,000	6,000	5,000	1,000	1,000	1,000	1,000	S	2,000	1,000	1,000
S&E-related occupations	23,000	17,000	15,000	7,000	10,000	15,000	7,000	13,000	8,000	5,000	7,000
Health-related occupations	16,000	15,000	11,000	6,000	9,000	9,000	6,000	6,000	6,000	4,000	5,000
S&E managers	7,000	6,000	5,000	S	2,000	2,000	2,000	S	4,000	3,000	3,000
S&E precollege teachers	12,000	2,000	S	S	S	12,000	S	12,000	500	S	S
S&E technicians/technologists	6,000	5,000	5,000	1,000	1,000	2,000	1,000	S	2,000	1,000	2,000
Other S&E-related occupations	5,000	5,000	4,000	3,000	S	S	S	S	1,000	S	1,000
Non-S&E occupations	38,000	31,000	28,000	10,000	12,000	20,000	9,000	18,000	14,000	8,000	12,000
Art/humanities/related occupations	8,000	8,000	6,000	4,000	2,000	3,000	3,000	S	2,000	2,000	1,000
Management-related occupations	16,000	14,000	14,000	5,000	4,000	5,000	4,000	3,000	7,000	5,000	5,000
Non-S&E managers	13,000	11,000	11,000	S	4,000	7,000	3,000	6,000	5,000	3,000	4,000
Non-S&E postsecondary teachers	6,000	S	S	S	S	6,000	5,000	3,000	1,000	S	1,000
Non-S&E precollege/other teachers	14,000	3,000	1,000	1,000	2,000	14,000	1,000	14,000	1,000	S	1,000
Sales/marketing occupations	16,000	16,000	14,000	5,000	3,000	S	S	S	1,000	S	S
Social services/related occupations	12,000	10,000	5,000	3,000	7,000	7,000	3,000	6,000	6,000	2,000	6,000
Other non-S&E occupations	18,000	16,000	14,000	6,000	5,000	7,000	5,000	5,000	9,000	5,000	7,000
Doctorate degrees, all occupations	11,000	7,000	6,000	2,000	3,000	9,000	7,000	5,000	3,000	2,000	2,000

TABLE A-16. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/ university	Other	Total	Federal	State/ local
S&E occupations	5,000	3,000	3,000	1,000	1,000	4,000	4,000	1,000	2,000	2,000	1,000
Scientists	5,000	3,000	2,000	1,000	1,000	4,000	4,000	1,000	2,000	2,000	1,000
Biological/agricultural/other life scientists	3,000	1,000	1,000	500	1,000	3,000	3,000	500	1,000	1,000	500
Agricultural/food scientists	500	500	500	*	*	500	500	S	500	500	*
Biological/medical scientists	3,000	1,000	1,000	500	1,000	2,000	2,000	*	1,000	1,000	500
Environmental life scientists	500	*	S	S	*	500	500	S	500	500	S
Postsecondary teachers-life/related sciences	1,000	S	S	S	S	1,000	1,000	500	S	S	S
Computer/mathematical scientists	3,000	2,000	2,000	1,000	500	3,000	3,000	500	1,000	500	1,000
Computer/information scientists	2,000	2,000	1,000	1,000	500	1,000	1,000	*	1,000	500	500
Mathematical scientists	1,000	500	500	*	500	500	500	S	500	500	*
Postsecondary teachers-computer/mathematical sciences	2,000	S	S	S	S	2,000	2,000	500	S	S	S
Physical/related scientists	2,000	1,000	1,000	500	500	1,000	1,000	500	1,000	1,000	500
Chemists, except biochemists	1,000	1,000	1,000	500	500	1,000	1,000	S	500	500	500
Earth/atmospheric/ocean scientists	1,000	500	500	*	*	500	500	S	500	500	500
Physicists/astronomers	1,000	1,000	500	*	500	1,000	1,000	S	500	500	*
Postsecondary teachers-physical/related sciences	1,000	S	S	S	S	1,000	1,000	500	S	S	S
Other physical/related scientists	1,000	500	500	*	500	1,000	1,000	S	500	*	*
Social/related scientists	2,000	1,000	1,000	1,000	1,000	2,000	2,000	1,000	1,000	500	500
Economists	500	500	500	500	500	500	500	S	500	500	*
Political/related scientists	500	*	*	S	*	500	500	S	*	*	S
Postsecondary teachers-social/related sciences	2,000	*	S	S	S	2,000	2,000	1,000	S	S	S
Psychologists	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500	500
Sociologists/anthropologists	1,000	1,000	500	*	1,000	500	500	S	500	500	*
Other social/related scientists	1,000	1,000	500	*	500	500	500	S	500	500	*
Engineers	2,000	2,000	2,000	500	500	1,000	1,000	*	1,000	500	500
Aerospace/aeronautical/astronautical engineers	1,000	1,000	1,000	S	*	*	*	S	500	500	S
Chemical engineers	1,000	1,000	1,000	*	*	500	500	S	*	*	S
Civil/architectural/sanitary engineers	500	500	500	*	*	500	500	S	500	*	500
Electrical/computer hardware engineers	1,000	1,000	1,000	500	500	500	500	S	500	500	*
Industrial engineers	1,000	1,000	1,000	S	S	*	*	S	S	S	S
Mechanical engineers	500	500	500	*	*	500	500	S	500	500	*
Postsecondary teachers-engineering	1,000	S	S	S	S	1,000	1,000	*	S	S	S
Other engineers	1,000	1,000	1,000	500	500	500	500	S	500	500	500
S&E-related occupations	5,000	3,000	2,000	1,000	2,000	3,000	2,000	3,000	2,000	500	2,000
Health-related occupations	3,000	3,000	1,000	1,000	2,000	2,000	2,000	500	1,000	500	1,000
S&E managers	1,000	1,000	1,000	*	500	500	500	*	500	500	500
S&E precollege teachers	3,000	S	S	S	S	3,000	S	3,000	S	S	S

TABLE A-16. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
S&E technicians/technologists	1,000	1,000	1,000	*	*	1,000	1,000	S	*	*	*
Other S&E-related occupations	2,000	1,000	1,000	S	S	S	S	S	*	S	S
Non-S&E occupations	8,000	5,000	5,000	1,000	2,000	6,000	5,000	4,000	1,000	1,000	1,000
Art/humanities/related occupations	1,000	1,000	1,000	1,000	500	500	500	S	500	*	*
Management-related occupations	4,000	2,000	2,000	500	1,000	3,000	3,000	1,000	1,000	1,000	500
Non-S&E managers	4,000	2,000	2,000	500	1,000	3,000	2,000	3,000	1,000	500	1,000
Non-S&E postsecondary teachers	3,000	*	S	S	S	3,000	3,000	1,000	S	S	S
Non-S&E precollege/other teachers	2,000	500	*	S	S	2,000	S	2,000	S	S	S
Sales/marketing occupations	3,000	3,000	3,000	1,000	1,000	*	*	S	S	S	S
Social services/related occupations	2,000	2,000	500	500	2,000	1,000	1,000	500	500	*	500
Other non-S&E occupations	2,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000	500	1,000

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
All degree levels and occupations[a]	82,000	74,000	26,000	33,000	34,000
U.S. citizen	81,000	72,000	24,000	33,000	34,000
Native-born	78,000	68,000	23,000	33,000	33,000
Naturalized	23,000	22,000	7,000	6,000	8,000
Non-U.S. citizen	19,000	17,000	7,000	4,000	4,000
Permanent resident	17,000	15,000	6,000	3,000	4,000
Temporary resident	9,000	9,000	4,000	2,000	2,000
S&E occupations	39,000	33,000	13,000	6,000	15,000
U.S. citizen	37,000	32,000	11,000	6,000	15,000
Native-born	37,000	31,000	11,000	6,000	14,000
Naturalized	10,000	9,000	3,000	1,000	4,000
Non-U.S. citizen	10,000	9,000	5,000	1,000	1,000
Permanent resident	9,000	8,000	4,000	1,000	1,000
Temporary resident	6,000	6,000	3,000	500	1,000
Scientists	34,000	28,000	12,000	6,000	13,000
U.S. citizen	33,000	28,000	11,000	6,000	13,000
Native-born	32,000	27,000	10,000	6,000	12,000
Naturalized	8,000	7,000	3,000	1,000	3,000
Non-U.S. citizen	9,000	8,000	5,000	1,000	1,000
Permanent resident	8,000	7,000	4,000	1,000	1,000
Temporary resident	5,000	5,000	3,000	500	1,000
Biological/agricultural/other life scientists	10,000	8,000	7,000	2,000	5,000
U.S. citizen	10,000	7,000	6,000	2,000	5,000
Native-born	9,000	7,000	6,000	2,000	5,000
Naturalized	3,000	1,000	2,000	500	1,000
Non-U.S. citizen	3,000	1,000	2,000	*	1,000
Permanent resident	2,000	1,000	2,000	S	500
Temporary resident	2,000	1,000	2,000	S	1,000
Agricultural/food scientists	4,000	3,000	2,000	S	2,000
U.S. citizen	4,000	3,000	2,000	S	2,000
Native-born	3,000	3,000	2,000	S	2,000
Naturalized	500	500	*	S	500
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	1,000	S	S
Temporary resident	1,000	*	1,000	S	S
Biological/medical scientists	9,000	6,000	6,000	*	4,000
U.S. citizen	8,000	6,000	6,000	*	4,000
Native-born	8,000	6,000	6,000	*	4,000
Naturalized	2,000	1,000	1,000	S	1,000
Non-U.S. citizen	2,000	1,000	2,000	S	1,000
Permanent resident	2,000	1,000	1,000	S	500
Temporary resident	2,000	1,000	2,000	S	1,000
Environmental life scientists	4,000	3,000	1,000	S	3,000
U.S. citizen	4,000	3,000	1,000	S	3,000
Native-born	4,000	3,000	1,000	S	3,000
Naturalized	1,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-life/related sciences	3,000	S	2,000	2,000	S
U.S. citizen	3,000	S	2,000	2,000	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Native-born	2,000	S	2,000	2,000	S
Naturalized	1,000	S	1,000	500	S
Non-U.S. citizen	1,000	S	1,000	*	S
Permanent resident	500	S	500	S	S
Temporary resident	500	S	500	S	S
Computer/mathematical scientists	27,000	25,000	7,000	4,000	9,000
U.S. citizen	27,000	24,000	6,000	4,000	9,000
Native-born	26,000	24,000	6,000	4,000	8,000
Naturalized	7,000	7,000	2,000	1,000	3,000
Non-U.S. citizen	8,000	7,000	4,000	1,000	1,000
Permanent resident	7,000	6,000	3,000	500	1,000
Temporary resident	5,000	5,000	2,000	S	1,000
Computer/information scientists	26,000	24,000	6,000	3,000	8,000
U.S. citizen	26,000	24,000	5,000	3,000	8,000
Native-born	25,000	24,000	5,000	3,000	7,000
Naturalized	7,000	7,000	1,000	1,000	2,000
Non-U.S. citizen	8,000	7,000	3,000	S	1,000
Permanent resident	7,000	6,000	2,000	S	1,000
Temporary resident	5,000	5,000	2,000	S	1,000
Mathematical scientists	6,000	4,000	1,000	1,000	3,000
U.S. citizen	6,000	4,000	1,000	1,000	3,000
Native-born	6,000	4,000	1,000	1,000	3,000
Naturalized	1,000	1,000	500	S	1,000
Non-U.S. citizen	1,000	1,000	500	S	*
Permanent resident	500	500	500	S	S
Temporary resident	1,000	500	500	S	S
Postsecondary teachers-computer/mathematical sciences	4,000	500	4,000	3,000	S
U.S. citizen	4,000	500	3,000	3,000	S
Native-born	4,000	500	3,000	3,000	S
Naturalized	1,000	S	1,000	1,000	S
Non-U.S. citizen	2,000	S	2,000	500	S
Permanent resident	2,000	S	2,000	500	S
Temporary resident	1,000	S	1,000	S	S
Physical/related scientists	9,000	8,000	4,000	1,000	4,000
U.S. citizen	9,000	8,000	4,000	1,000	4,000
Native-born	8,000	7,000	3,000	1,000	4,000
Naturalized	2,000	2,000	1,000	500	1,000
Non-U.S. citizen	2,000	1,000	1,000	*	500
Permanent resident	1,000	1,000	1,000	*	*
Temporary resident	1,000	1,000	1,000	S	500
Chemists, except biochemists	6,000	6,000	1,000	S	1,000
U.S. citizen	6,000	6,000	1,000	S	1,000
Native-born	6,000	5,000	1,000	S	1,000
Naturalized	2,000	2,000	500	S	500
Non-U.S. citizen	1,000	1,000	1,000	S	*
Permanent resident	1,000	1,000	500	S	*
Temporary resident	1,000	500	1,000	S	S
Earth/atmospheric/ocean scientists	5,000	4,000	1,000	S	2,000
U.S. citizen	5,000	4,000	1,000	S	2,000
Native-born	5,000	4,000	1,000	S	2,000
Naturalized	1,000	500	*	S	500

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Non-U.S. citizen	1,000	500	500	S	S
Permanent resident	500	500	*	S	S
Temporary resident	500	*	500	S	S
Physicists/astronomers	2,000	2,000	1,000	S	500
U.S. citizen	2,000	1,000	1,000	S	500
Native-born	2,000	1,000	1,000	S	500
Naturalized	1,000	500	500	S	500
Non-U.S. citizen	1,000	500	1,000	S	*
Permanent resident	500	500	500	S	*
Temporary resident	1,000	500	1,000	S	*
Postsecondary teachers-physical/related sciences	3,000	*	3,000	1,000	S
U.S. citizen	3,000	S	2,000	1,000	S
Native-born	3,000	S	2,000	1,000	S
Naturalized	1,000	S	1,000	500	S
Non-U.S. citizen	1,000	S	1,000	*	S
Permanent resident	1,000	S	1,000	*	S
Temporary resident	1,000	S	1,000	S	S
Other physical/related scientists	4,000	2,000	2,000	S	3,000
U.S. citizen	4,000	2,000	2,000	S	3,000
Native-born	4,000	2,000	2,000	S	3,000
Naturalized	1,000	500	S	S	500
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	500	*	500	S	S
Social/related scientists	14,000	11,000	5,000	4,000	6,000
U.S. citizen	13,000	10,000	5,000	4,000	6,000
Native-born	13,000	10,000	5,000	4,000	6,000
Naturalized	2,000	2,000	1,000	1,000	1,000
Non-U.S. citizen	2,000	2,000	1,000	500	1,000
Permanent resident	2,000	2,000	1,000	500	1,000
Temporary resident	2,000	1,000	1,000	S	*
Economists	3,000	3,000	1,000	S	2,000
U.S. citizen	3,000	3,000	1,000	S	2,000
Native-born	3,000	3,000	1,000	S	2,000
Naturalized	1,000	1,000	*	S	*
Non-U.S. citizen	1,000	1,000	500	S	*
Permanent resident	1,000	1,000	*	S	*
Temporary resident	1,000	500	500	S	*
Political/related scientists	2,000	2,000	500	S	2,000
U.S. citizen	2,000	1,000	500	S	2,000
Native-born	2,000	1,000	500	S	2,000
Naturalized	*	*	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-social/related sciences	4,000	1,000	3,000	2,000	*
U.S. citizen	4,000	1,000	3,000	2,000	*
Native-born	4,000	1,000	3,000	2,000	*
Naturalized	1,000	S	1,000	500	S
Non-U.S. citizen	1,000	S	1,000	500	S
Permanent resident	1,000	S	1,000	*	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Temporary resident	1,000	S	1,000	S	S
Psychologists	6,000	5,000	3,000	3,000	2,000
U.S. citizen	6,000	5,000	3,000	3,000	2,000
Native-born	6,000	5,000	3,000	3,000	2,000
Naturalized	1,000	1,000	1,000	1,000	500
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	500	500	*	S	S
Sociologists/anthropologists	3,000	2,000	1,000	S	1,000
U.S. citizen	3,000	2,000	1,000	S	1,000
Native-born	3,000	2,000	1,000	S	1,000
Naturalized	500	500	*	S	S
Non-U.S. citizen	500	S	*	S	S
Permanent resident	*	S	S	S	S
Temporary resident	*	S	S	S	S
Other social/related scientists	9,000	8,000	2,000	500	4,000
U.S. citizen	9,000	8,000	2,000	*	4,000
Native-born	8,000	8,000	2,000	*	4,000
Naturalized	1,000	1,000	*	S	1,000
Non-U.S. citizen	2,000	2,000	*	S	S
Permanent resident	2,000	1,000	S	S	S
Temporary resident	1,000	1,000	*	S	S
Engineers	18,000	17,000	3,000	1,000	7,000
U.S. citizen	18,000	17,000	2,000	1,000	7,000
Native-born	17,000	16,000	2,000	1,000	7,000
Naturalized	5,000	5,000	1,000	500	2,000
Non-U.S. citizen	5,000	5,000	1,000	S	500
Permanent resident	3,000	3,000	1,000	S	500
Temporary resident	4,000	4,000	1,000	S	*
Aerospace/aeronautical/astronautical engineers	5,000	4,000	500	S	2,000
U.S. citizen	5,000	4,000	500	S	2,000
Native-born	5,000	4,000	500	S	2,000
Naturalized	1,000	1,000	*	S	500
Non-U.S. citizen	500	500	*	S	S
Permanent resident	500	500	S	S	S
Temporary resident	*	*	*	S	S
Chemical engineers	3,000	3,000	500	S	2,000
U.S. citizen	3,000	3,000	500	S	2,000
Native-born	3,000	3,000	500	S	2,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	500	500	S	S
Civil/architectural/sanitary engineers	8,000	7,000	500	S	4,000
U.S. citizen	8,000	6,000	500	S	4,000
Native-born	7,000	6,000	500	S	4,000
Naturalized	2,000	2,000	*	S	2,000
Non-U.S. citizen	1,000	1,000	500	S	500
Permanent resident	1,000	1,000	*	S	500
Temporary resident	1,000	1,000	500	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Electrical/computer hardware engineers	8,000	8,000	1,000	S	2,000
U.S. citizen	8,000	7,000	1,000	S	2,000
Native-born	7,000	7,000	1,000	S	2,000
Naturalized	3,000	3,000	1,000	S	1,000
Non-U.S. citizen	4,000	4,000	1,000	S	*
Permanent resident	2,000	2,000	*	S	S
Temporary resident	3,000	3,000	1,000	S	S
Industrial engineers	5,000	5,000	500	S	1,000
U.S. citizen	4,000	4,000	500	S	1,000
Native-born	4,000	4,000	500	S	1,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	1,000	1,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Mechanical engineers	7,000	7,000	1,000	S	2,000
U.S. citizen	7,000	7,000	1,000	S	2,000
Native-born	7,000	7,000	1,000	S	2,000
Naturalized	2,000	2,000	500	S	1,000
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	1,000	1,000	500	S	S
Postsecondary teachers-engineering	2,000	S	2,000	1,000	S
U.S. citizen	1,000	S	1,000	1,000	S
Native-born	1,000	S	1,000	1,000	S
Naturalized	1,000	S	1,000	*	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	500	S	500	S	S
Temporary resident	1,000	S	1,000	S	S
Other engineers	12,000	12,000	1,000	S	4,000
U.S. citizen	12,000	12,000	1,000	S	4,000
Native-born	12,000	12,000	1,000	S	4,000
Naturalized	2,000	2,000	1,000	S	1,000
Non-U.S. citizen	2,000	2,000	1,000	S	*
Permanent resident	2,000	2,000	*	S	*
Temporary resident	1,000	1,000	1,000	S	S
S&E-related occupations	48,000	37,000	18,000	23,000	18,000
U.S. citizen	48,000	38,000	17,000	22,000	17,000
Native-born	45,000	34,000	15,000	23,000	17,000
Naturalized	14,000	13,000	5,000	3,000	5,000
Non-U.S. citizen	10,000	8,000	5,000	2,000	2,000
Permanent resident	9,000	8,000	4,000	1,000	2,000
Temporary resident	5,000	3,000	3,000	1,000	1,000
Health-related occupations	32,000	30,000	17,000	9,000	15,000
U.S. citizen	33,000	31,000	16,000	9,000	14,000
Native-born	31,000	29,000	14,000	8,000	14,000
Naturalized	11,000	11,000	5,000	2,000	4,000
Non-U.S. citizen	9,000	7,000	5,000	1,000	2,000
Permanent resident	8,000	7,000	4,000	1,000	2,000
Temporary resident	4,000	3,000	3,000	S	S
S&E managers	14,000	13,000	3,000	1,000	6,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
U.S. citizen	14,000	13,000	3,000	1,000	6,000
Native-born	14,000	13,000	3,000	1,000	6,000
Naturalized	3,000	3,000	1,000	S	1,000
Non-U.S. citizen	2,000	2,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
S&E precollege teachers	21,000	2,000	S	21,000	1,000
U.S. citizen	21,000	2,000	S	21,000	1,000
Native-born	21,000	2,000	S	21,000	1,000
Naturalized	3,000	S	S	3,000	S
Non-U.S. citizen	2,000	S	S	2,000	S
Permanent resident	1,000	S	S	1,000	S
Temporary resident	1,000	S	S	1,000	S
S&E technicians/technologists	15,000	14,000	3,000	2,000	6,000
U.S. citizen	14,000	13,000	3,000	2,000	6,000
Native-born	13,000	12,000	3,000	2,000	6,000
Naturalized	4,000	4,000	1,000	S	1,000
Non-U.S. citizen	3,000	3,000	1,000	S	500
Permanent resident	3,000	3,000	1,000	S	500
Temporary resident	2,000	2,000	1,000	S	S
Other S&E-related occupations	10,000	10,000	1,000	1,000	2,000
U.S. citizen	10,000	10,000	1,000	1,000	2,000
Native-born	10,000	10,000	1,000	S	2,000
Naturalized	3,000	3,000	S	S	1,000
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Non-S&E occupations	70,000	60,000	13,000	26,000	25,000
U.S. citizen	68,000	58,000	13,000	26,000	25,000
Native-born	67,000	57,000	13,000	26,000	25,000
Naturalized	18,000	16,000	3,000	6,000	6,000
Non-U.S. citizen	14,000	13,000	3,000	3,000	4,000
Permanent resident	13,000	12,000	3,000	3,000	3,000
Temporary resident	6,000	6,000	1,000	1,000	1,000
Art/humanities/related occupations	17,000	17,000	4,000	1,000	4,000
U.S. citizen	17,000	16,000	4,000	1,000	4,000
Native-born	16,000	16,000	4,000	1,000	3,000
Naturalized	3,000	3,000	500	S	500
Non-U.S. citizen	3,000	2,000	S	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	2,000	S	S	S	S
Management-related occupations	34,000	31,000	7,000	4,000	12,000
U.S. citizen	34,000	31,000	7,000	4,000	11,000
Native-born	34,000	30,000	6,000	4,000	11,000
Naturalized	9,000	8,000	1,000	1,000	3,000
Non-U.S. citizen	6,000	5,000	1,000	S	2,000
Permanent resident	5,000	5,000	1,000	S	1,000
Temporary resident	2,000	2,000	S	S	S
Non-S&E managers	26,000	23,000	4,000	8,000	8,000
U.S. citizen	25,000	22,000	4,000	8,000	8,000
Native-born	25,000	21,000	4,000	8,000	8,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Naturalized	4,000	4,000	1,000	1,000	1,000
Non-U.S. citizen	3,000	3,000	500	S	1,000
Permanent resident	3,000	3,000	500	S	S
Temporary resident	2,000	2,000	S	S	S
Non-S&E postsecondary teachers	7,000	1,000	6,000	3,000	2,000
U.S. citizen	7,000	1,000	6,000	3,000	2,000
Native-born	7,000	1,000	5,000	3,000	2,000
Naturalized	2,000	S	2,000	1,000	S
Non-U.S. citizen	1,000	S	1,000	500	S
Permanent resident	1,000	S	1,000	500	S
Temporary resident	1,000	S	1,000	S	S
Non-S&E precollege/other teachers	21,000	5,000	1,000	21,000	2,000
U.S. citizen	21,000	5,000	1,000	21,000	2,000
Native-born	21,000	5,000	1,000	21,000	1,000
Naturalized	5,000	1,000	S	4,000	S
Non-U.S. citizen	3,000	1,000	S	2,000	S
Permanent resident	2,000	1,000	S	2,000	S
Temporary resident	1,000	S	S	1,000	S
Sales/marketing occupations	32,000	32,000	3,000	S	3,000
U.S. citizen	31,000	31,000	3,000	S	3,000
Native-born	30,000	30,000	3,000	S	3,000
Naturalized	9,000	9,000	S	S	S
Non-U.S. citizen	6,000	6,000	S	S	S
Permanent resident	6,000	6,000	S	S	S
Temporary resident	2,000	2,000	S	S	S
Social services/related occupations	17,000	14,000	4,000	7,000	10,000
U.S. citizen	17,000	14,000	4,000	7,000	10,000
Native-born	17,000	13,000	4,000	7,000	10,000
Naturalized	4,000	3,000	1,000	1,000	2,000
Non-U.S. citizen	3,000	3,000	1,000	S	1,000
Permanent resident	3,000	3,000	S	S	1,000
Temporary resident	1,000	500	S	S	S
Other non-S&E occupations	41,000	37,000	8,000	9,000	20,000
U.S. citizen	40,000	36,000	7,000	9,000	19,000
Native-born	39,000	33,000	7,000	8,000	19,000
Naturalized	11,000	10,000	1,000	2,000	5,000
Non-U.S. citizen	10,000	9,000	2,000	2,000	2,000
Permanent resident	9,000	8,000	2,000	2,000	2,000
Temporary resident	5,000	5,000	500	S	S
Bachelor's degrees, all occupations	69,000	61,000	20,000	24,000	30,000
U.S. citizen	69,000	60,000	19,000	24,000	29,000
Native-born	65,000	57,000	18,000	24,000	28,000
Naturalized	19,000	17,000	5,000	5,000	6,000
Non-U.S. citizen	14,000	13,000	4,000	3,000	4,000
Permanent resident	13,000	11,000	4,000	2,000	3,000
Temporary resident	7,000	7,000	2,000	1,000	2,000
S&E occupations	32,000	29,000	9,000	4,000	12,000
U.S. citizen	32,000	28,000	9,000	4,000	12,000
Native-born	31,000	28,000	8,000	4,000	11,000
Naturalized	8,000	7,000	2,000	1,000	3,000
Non-U.S. citizen	7,000	7,000	2,000	S	1,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Permanent resident	6,000	6,000	1,000	S	1,000
Temporary resident	4,000	4,000	2,000	S	1,000
Scientists	27,000	24,000	9,000	3,000	10,000
U.S. citizen	27,000	24,000	8,000	3,000	10,000
Native-born	26,000	24,000	8,000	3,000	9,000
Naturalized	6,000	5,000	2,000	1,000	2,000
Non-U.S. citizen	6,000	6,000	2,000	S	1,000
Permanent resident	6,000	5,000	1,000	S	1,000
Temporary resident	3,000	3,000	2,000	S	1,000
Biological/agricultural/other life scientists	9,000	7,000	6,000	1,000	4,000
U.S. citizen	8,000	7,000	6,000	1,000	4,000
Native-born	8,000	6,000	5,000	500	4,000
Naturalized	2,000	1,000	2,000	S	1,000
Non-U.S. citizen	2,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	1,000	S	S
Temporary resident	1,000	S	1,000	S	S
Agricultural/food scientists	3,000	3,000	1,000	S	2,000
U.S. citizen	3,000	3,000	1,000	S	2,000
Native-born	3,000	3,000	1,000	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	1,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Biological/medical scientists	7,000	5,000	5,000	S	3,000
U.S. citizen	7,000	5,000	5,000	S	3,000
Native-born	7,000	5,000	5,000	S	3,000
Naturalized	1,000	1,000	1,000	S	1,000
Non-U.S. citizen	1,000	500	1,000	S	S
Permanent resident	1,000	500	1,000	S	S
Temporary resident	1,000	S	500	S	S
Environmental life scientists	4,000	3,000	S	S	2,000
U.S. citizen	4,000	3,000	S	S	2,000
Native-born	4,000	3,000	S	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-life/related sciences	2,000	S	1,000	S	S
U.S. citizen	2,000	S	1,000	S	S
Native-born	2,000	S	1,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Computer/mathematical scientists	24,000	23,000	5,000	3,000	6,000
U.S. citizen	24,000	22,000	5,000	3,000	6,000
Native-born	24,000	22,000	5,000	3,000	6,000
Naturalized	6,000	5,000	1,000	1,000	2,000
Non-U.S. citizen	5,000	5,000	1,000	S	1,000
Permanent resident	5,000	5,000	1,000	S	500
Temporary resident	3,000	3,000	1,000	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Computer/information scientists	23,000	22,000	4,000	3,000	6,000
U.S. citizen	23,000	22,000	4,000	3,000	6,000
Native-born	23,000	22,000	4,000	3,000	5,000
Naturalized	6,000	5,000	1,000	1,000	2,000
Non-U.S. citizen	5,000	5,000	1,000	S	1,000
Permanent resident	5,000	5,000	1,000	S	500
Temporary resident	3,000	3,000	1,000	S	S
Mathematical scientists	5,000	4,000	1,000	S	2,000
U.S. citizen	5,000	4,000	1,000	S	2,000
Native-born	5,000	4,000	1,000	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	2,000	S	2,000	2,000	S
U.S. citizen	2,000	S	2,000	2,000	S
Native-born	2,000	S	2,000	2,000	S
Naturalized	1,000	S	S	500	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physical/related scientists	8,000	7,000	3,000	S	4,000
U.S. citizen	8,000	6,000	3,000	S	4,000
Native-born	7,000	6,000	3,000	S	4,000
Naturalized	1,000	1,000	500	S	S
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	S	1,000	S	S
Chemists, except biochemists	6,000	5,000	1,000	S	1,000
U.S. citizen	6,000	5,000	1,000	S	1,000
Native-born	5,000	5,000	1,000	S	1,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Earth/atmospheric/ocean scientists	3,000	3,000	1,000	S	2,000
U.S. citizen	3,000	3,000	1,000	S	2,000
Native-born	3,000	3,000	1,000	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physicists/astronomers	1,000	1,000	1,000	S	*
U.S. citizen	1,000	1,000	500	S	*
Native-born	1,000	1,000	500	S	*
Naturalized	S	S	S	S	S
Non-U.S. citizen	500	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-physical/related sciences	2,000	S	2,000	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
U.S. citizen	2,000	S	2,000	S	S
Native-born	2,000	S	2,000	S	S
Naturalized	500	S	500	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other physical/related scientists	4,000	2,000	2,000	S	3,000
U.S. citizen	3,000	2,000	2,000	S	3,000
Native-born	3,000	2,000	S	S	3,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Social/related scientists	8,000	7,000	3,000	2,000	4,000
U.S. citizen	7,000	6,000	3,000	2,000	4,000
Native-born	7,000	6,000	3,000	2,000	4,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	S	S	S	S
Economists	2,000	2,000	500	S	500
U.S. citizen	2,000	2,000	500	S	500
Native-born	2,000	2,000	500	S	500
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Political/related scientists	2,000	2,000	S	S	1,000
U.S. citizen	2,000	1,000	S	S	1,000
Native-born	2,000	1,000	S	S	1,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	S	1,000	1,000	S
U.S. citizen	2,000	S	1,000	1,000	S
Native-born	2,000	S	1,000	1,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Psychologists	3,000	2,000	2,000	1,000	1,000
U.S. citizen	3,000	2,000	2,000	1,000	1,000
Native-born	2,000	2,000	1,000	S	1,000
Naturalized	1,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	2,000	2,000	1,000	S	1,000
U.S. citizen	2,000	2,000	1,000	S	1,000
Native-born	2,000	2,000	1,000	S	1,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	6,000	6,000	2,000	S	3,000
U.S. citizen	6,000	6,000	2,000	S	3,000
Native-born	6,000	6,000	2,000	S	3,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Engineers	17,000	16,000	2,000	1,000	6,000
U.S. citizen	16,000	15,000	2,000	1,000	6,000
Native-born	16,000	15,000	2,000	1,000	6,000
Naturalized	4,000	4,000	1,000	S	2,000
Non-U.S. citizen	4,000	4,000	1,000	S	500
Permanent resident	2,000	2,000	*	S	500
Temporary resident	3,000	4,000	1,000	S	S
Aerospace/aeronautical/astronautical engineers	4,000	3,000	*	S	1,000
U.S. citizen	4,000	3,000	*	S	1,000
Native-born	3,000	3,000	*	S	1,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	500	500	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	3,000	2,000	500	S	2,000
U.S. citizen	3,000	2,000	500	S	2,000
Native-born	3,000	2,000	500	S	2,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	500	S	S	S
Permanent resident	500	500	S	S	S
Temporary resident	500	S	S	S	S
Civil/architectural/sanitary engineers	7,000	6,000	500	S	4,000
U.S. citizen	7,000	6,000	500	S	4,000
Native-born	7,000	6,000	500	S	4,000
Naturalized	2,000	1,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	S	S	500
Permanent resident	1,000	1,000	S	S	500
Temporary resident	500	500	S	S	S
Electrical/computer hardware engineers	7,000	7,000	1,000	S	2,000
U.S. citizen	6,000	6,000	1,000	S	2,000
Native-born	6,000	6,000	1,000	S	2,000
Naturalized	3,000	3,000	S	S	1,000
Non-U.S. citizen	4,000	4,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	3,000	3,000	S	S	S
Industrial engineers	4,000	4,000	500	S	1,000
U.S. citizen	4,000	4,000	500	S	1,000
Native-born	4,000	4,000	500	S	1,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Permanent resident	500	500	S	S	S
Temporary resident	1,000	1,000	S	S	S
Mechanical engineers	6,000	6,000	1,000	S	1,000
U.S. citizen	6,000	6,000	1,000	S	1,000
Native-born	5,000	5,000	1,000	S	1,000
Naturalized	2,000	2,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	500	500	S	S	S
Postsecondary teachers-engineering	1,000	S	1,000	500	S
U.S. citizen	1,000	S	1,000	500	S
Native-born	1,000	S	1,000	500	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Other engineers	11,000	11,000	1,000	S	3,000
U.S. citizen	11,000	10,000	1,000	S	3,000
Native-born	11,000	10,000	1,000	S	3,000
Naturalized	2,000	2,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
S&E-related occupations	39,000	32,000	14,000	16,000	14,000
U.S. citizen	39,000	31,000	13,000	16,000	14,000
Native-born	37,000	29,000	12,000	16,000	13,000
Naturalized	11,000	10,000	4,000	3,000	4,000
Non-U.S. citizen	8,000	7,000	3,000	1,000	2,000
Permanent resident	8,000	6,000	3,000	1,000	2,000
Temporary resident	3,000	3,000	1,000	S	S
Health-related occupations	31,000	27,000	13,000	7,000	12,000
U.S. citizen	30,000	27,000	13,000	7,000	12,000
Native-born	28,000	24,000	11,000	7,000	12,000
Naturalized	9,000	9,000	4,000	2,000	3,000
Non-U.S. citizen	8,000	6,000	3,000	S	2,000
Permanent resident	7,000	6,000	3,000	S	2,000
Temporary resident	3,000	3,000	S	S	S
S&E managers	12,000	11,000	2,000	S	4,000
U.S. citizen	12,000	11,000	2,000	S	4,000
Native-born	11,000	11,000	2,000	S	4,000
Naturalized	2,000	2,000	S	S	1,000
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
S&E precollege teachers	14,000	S	S	14,000	S
U.S. citizen	14,000	S	S	14,000	S
Native-born	14,000	S	S	14,000	S
Naturalized	2,000	S	S	2,000	S
Non-U.S. citizen	1,000	S	S	1,000	S
Permanent resident	1,000	S	S	1,000	S
Temporary resident	S	S	S	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
S&E technicians/technologists	14,000	13,000	3,000	1,000	5,000
U.S. citizen	14,000	12,000	3,000	1,000	5,000
Native-born	13,000	12,000	3,000	1,000	5,000
Naturalized	4,000	4,000	1,000	S	1,000
Non-U.S. citizen	3,000	3,000	1,000	S	S
Permanent resident	3,000	3,000	500	S	S
Temporary resident	1,000	1,000	S	S	S
Other S&E-related occupations	9,000	8,000	1,000	S	2,000
U.S. citizen	8,000	8,000	1,000	S	2,000
Native-born	8,000	8,000	1,000	S	2,000
Naturalized	2,000	2,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	58,000	52,000	9,000	19,000	21,000
U.S. citizen	59,000	52,000	8,000	19,000	21,000
Native-born	57,000	50,000	8,000	19,000	21,000
Naturalized	15,000	13,000	2,000	4,000	4,000
Non-U.S. citizen	10,000	10,000	2,000	2,000	3,000
Permanent resident	9,000	9,000	2,000	2,000	2,000
Temporary resident	5,000	5,000	1,000	1,000	S
Art/humanities/related occupations	14,000	13,000	2,000	1,000	3,000
U.S. citizen	13,000	13,000	2,000	1,000	3,000
Native-born	13,000	13,000	2,000	1,000	3,000
Naturalized	2,000	2,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Management-related occupations	28,000	26,000	5,000	3,000	8,000
U.S. citizen	28,000	26,000	5,000	3,000	8,000
Native-born	27,000	25,000	4,000	3,000	8,000
Naturalized	7,000	7,000	1,000	S	1,000
Non-U.S. citizen	3,000	3,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Non-S&E managers	21,000	19,000	2,000	3,000	6,000
U.S. citizen	21,000	18,000	2,000	3,000	6,000
Native-born	20,000	18,000	1,000	3,000	6,000
Naturalized	4,000	3,000	S	S	S
Non-U.S. citizen	3,000	3,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E postsecondary teachers	3,000	1,000	3,000	1,000	1,000
U.S. citizen	3,000	1,000	2,000	1,000	S
Native-born	3,000	1,000	2,000	1,000	S
Naturalized	2,000	S	2,000	S	S
Non-U.S. citizen	1,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E precollege/other teachers	17,000	4,000	500	17,000	1,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
U.S. citizen	17,000	4,000	500	17,000	1,000
Native-born	17,000	4,000	500	16,000	1,000
Naturalized	4,000	S	S	4,000	S
Non-U.S. citizen	2,000	S	S	2,000	S
Permanent resident	2,000	S	S	2,000	S
Temporary resident	1,000	S	S	S	S
Sales/marketing occupations	28,000	28,000	3,000	S	3,000
U.S. citizen	28,000	28,000	3,000	S	3,000
Native-born	27,000	27,000	3,000	S	3,000
Naturalized	7,000	7,000	S	S	S
Non-U.S. citizen	5,000	5,000	S	S	S
Permanent resident	5,000	5,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Social services/related occupations	12,000	8,000	3,000	3,000	7,000
U.S. citizen	12,000	8,000	3,000	3,000	7,000
Native-born	12,000	7,000	3,000	3,000	7,000
Naturalized	2,000	2,000	S	S	2,000
Non-U.S. citizen	3,000	3,000	S	S	1,000
Permanent resident	3,000	2,000	S	S	1,000
Temporary resident	1,000	S	S	S	S
Other non-S&E occupations	36,000	32,000	5,000	6,000	17,000
U.S. citizen	36,000	32,000	5,000	6,000	16,000
Native-born	35,000	30,000	5,000	6,000	16,000
Naturalized	10,000	9,000	1,000	1,000	4,000
Non-U.S. citizen	8,000	7,000	2,000	S	2,000
Permanent resident	7,000	6,000	2,000	S	2,000
Temporary resident	4,000	4,000	S	S	S
Master's degrees, all occupations	47,000	38,000	13,000	22,000	19,000
U.S. citizen	44,000	35,000	12,000	22,000	18,000
Native-born	43,000	34,000	12,000	22,000	17,000
Naturalized	12,000	10,000	3,000	4,000	5,000
Non-U.S. citizen	11,000	10,000	4,000	2,000	3,000
Permanent resident	10,000	9,000	3,000	2,000	3,000
Temporary resident	6,000	5,000	2,000	1,000	1,000
S&E occupations	20,000	16,000	7,000	5,000	8,000
U.S. citizen	19,000	15,000	6,000	5,000	8,000
Native-born	18,000	15,000	6,000	5,000	8,000
Naturalized	6,000	5,000	2,000	1,000	2,000
Non-U.S. citizen	7,000	6,000	3,000	1,000	1,000
Permanent resident	6,000	5,000	2,000	500	1,000
Temporary resident	4,000	4,000	2,000	S	1,000
Scientists	18,000	14,000	7,000	5,000	7,000
U.S. citizen	17,000	13,000	6,000	5,000	7,000
Native-born	16,000	13,000	6,000	5,000	7,000
Naturalized	5,000	4,000	1,000	1,000	1,000
Non-U.S. citizen	6,000	6,000	3,000	1,000	1,000
Permanent resident	5,000	4,000	2,000	500	1,000
Temporary resident	4,000	4,000	2,000	S	1,000
Biological/agricultural/other life scientists	5,000	3,000	3,000	1,000	2,000
U.S. citizen	5,000	3,000	3,000	1,000	2,000
Native-born	5,000	3,000	3,000	1,000	2,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Naturalized	1,000	1,000	500	S	500
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	1,000	S	S
Temporary resident	1,000	500	1,000	S	S
Agricultural/food scientists	2,000	1,000	2,000	S	1,000
U.S. citizen	2,000	1,000	2,000	S	1,000
Native-born	2,000	1,000	2,000	S	1,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	1,000	S	500	S	S
Permanent resident	S	S	S	S	S
Temporary resident	500	S	500	S	S
Biological/medical scientists	4,000	3,000	2,000	S	2,000
U.S. citizen	4,000	3,000	2,000	S	2,000
Native-born	4,000	3,000	2,000	S	2,000
Naturalized	1,000	1,000	500	S	500
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	500	500	S	S
Temporary resident	1,000	500	1,000	S	S
Environmental life scientists	2,000	1,000	S	S	1,000
U.S. citizen	2,000	1,000	S	S	1,000
Native-born	2,000	1,000	S	S	1,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-life/related sciences	2,000	S	1,000	1,000	S
U.S. citizen	2,000	S	1,000	1,000	S
Native-born	2,000	S	1,000	1,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Computer/mathematical scientists	14,000	12,000	4,000	3,000	5,000
U.S. citizen	13,000	11,000	3,000	3,000	5,000
Native-born	12,000	10,000	3,000	3,000	5,000
Naturalized	4,000	4,000	1,000	500	1,000
Non-U.S. citizen	6,000	5,000	3,000	500	1,000
Permanent resident	5,000	4,000	2,000	500	1,000
Temporary resident	4,000	4,000	2,000	S	500
Computer/information scientists	13,000	12,000	4,000	2,000	5,000
U.S. citizen	12,000	11,000	2,000	2,000	5,000
Native-born	11,000	10,000	2,000	2,000	5,000
Naturalized	4,000	4,000	1,000	S	1,000
Non-U.S. citizen	6,000	5,000	3,000	S	1,000
Permanent resident	5,000	4,000	2,000	S	1,000
Temporary resident	4,000	4,000	1,000	S	500
Mathematical scientists	3,000	2,000	1,000	S	1,000
U.S. citizen	3,000	2,000	500	S	1,000
Native-born	3,000	2,000	500	S	1,000
Naturalized	1,000	1,000	S	S	1,000
Non-U.S. citizen	500	500	500	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Permanent resident	500	500	S	S	S
Temporary resident	500	500	*	S	S
Postsecondary teachers-computer/mathematical sciences	3,000	S	2,000	2,000	S
U.S. citizen	3,000	S	2,000	2,000	S
Native-born	3,000	S	2,000	2,000	S
Naturalized	1,000	S	500	500	S
Non-U.S. citizen	1,000	S	1,000	500	S
Permanent resident	500	S	500	500	S
Temporary resident	1,000	S	1,000	S	S
Physical/related scientists	5,000	4,000	2,000	1,000	2,000
U.S. citizen	5,000	4,000	2,000	1,000	2,000
Native-born	5,000	4,000	2,000	1,000	2,000
Naturalized	1,000	1,000	1,000	S	500
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	1,000	500	1,000	S	S
Chemists, except biochemists	3,000	2,000	1,000	S	1,000
U.S. citizen	2,000	2,000	500	S	1,000
Native-born	2,000	2,000	*	S	1,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	500	1,000	S	S
Earth/atmospheric/ocean scientists	3,000	3,000	1,000	S	1,000
U.S. citizen	3,000	3,000	500	S	1,000
Native-born	3,000	3,000	500	S	1,000
Naturalized	500	500	S	S	S
Non-U.S. citizen	500	S	*	S	S
Permanent resident	S	S	S	S	S
Temporary resident	500	S	*	S	S
Physicists/astronomers	1,000	1,000	500	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	1,000	500	S	500
Naturalized	500	S	S	S	S
Non-U.S. citizen	500	S	500	S	S
Permanent resident	S	S	S	S	S
Temporary resident	500	S	500	S	S
Postsecondary teachers-physical/related sciences	2,000	S	2,000	1,000	S
U.S. citizen	2,000	S	2,000	1,000	S
Native-born	2,000	S	2,000	1,000	S
Naturalized	1,000	S	1,000	S	S
Non-U.S. citizen	500	S	500	S	S
Permanent resident	S	S	S	S	S
Temporary resident	500	S	500	S	S
Other physical/related scientists	1,000	1,000	S	S	1,000
U.S. citizen	1,000	1,000	S	S	1,000
Native-born	1,000	1,000	S	S	1,000
Naturalized	500	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Social/related scientists	10,000	8,000	3,000	3,000	4,000
U.S. citizen	10,000	7,000	3,000	3,000	4,000
Native-born	10,000	7,000	3,000	3,000	4,000
Naturalized	2,000	1,000	500	500	S
Non-U.S. citizen	2,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	1,000	S	S
Economists	3,000	2,000	1,000	S	2,000
U.S. citizen	3,000	2,000	500	S	2,000
Native-born	2,000	2,000	500	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	S	S	S	S	S
Temporary resident	500	500	500	S	S
Political/related scientists	1,000	1,000	*	S	1,000
U.S. citizen	1,000	1,000	S	S	1,000
Native-born	1,000	500	S	S	1,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	S	2,000	2,000	S
U.S. citizen	2,000	S	2,000	2,000	S
Native-born	2,000	S	2,000	2,000	S
Naturalized	500	S	500	*	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	500	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Psychologists	6,000	4,000	2,000	3,000	2,000
U.S. citizen	6,000	4,000	2,000	3,000	2,000
Native-born	6,000	4,000	2,000	3,000	2,000
Naturalized	1,000	500	S	500	S
Non-U.S. citizen	1,000	500	S	S	S
Permanent resident	500	500	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	2,000	1,000	1,000	S	500
U.S. citizen	2,000	1,000	1,000	S	500
Native-born	2,000	1,000	1,000	S	500
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	6,000	5,000	1,000	S	2,000
U.S. citizen	6,000	5,000	1,000	S	2,000
Native-born	5,000	5,000	1,000	S	2,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Engineers	9,000	9,000	2,000	1,000	4,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
U.S. citizen	9,000	9,000	1,000	1,000	4,000
Native-born	9,000	8,000	1,000	1,000	4,000
Naturalized	4,000	4,000	1,000	S	1,000
Non-U.S. citizen	3,000	3,000	1,000	S	500
Permanent resident	3,000	2,000	500	S	500
Temporary resident	2,000	2,000	1,000	S	S
Aerospace/aeronautical/astronautical engineers	4,000	3,000	500	S	2,000
U.S. citizen	4,000	3,000	500	S	2,000
Native-born	3,000	3,000	500	S	2,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	500	500	*	S	S
Permanent resident	500	S	S	S	S
Temporary resident	*	S	*	S	S
Chemical engineers	2,000	2,000	500	S	S
U.S. citizen	2,000	2,000	*	S	S
Native-born	2,000	2,000	*	S	S
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	500	500	*	S	S
Civil/architectural/sanitary engineers	3,000	3,000	500	S	2,000
U.S. citizen	3,000	3,000	500	S	2,000
Native-born	3,000	3,000	500	S	2,000
Naturalized	1,000	1,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	S	S	*
Permanent resident	1,000	1,000	S	S	*
Temporary resident	1,000	1,000	S	S	S
Electrical/computer hardware engineers	5,000	5,000	1,000	S	1,000
U.S. citizen	5,000	5,000	1,000	S	1,000
Native-born	4,000	4,000	1,000	S	1,000
Naturalized	2,000	2,000	1,000	S	500
Non-U.S. citizen	2,000	2,000	500	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	500	S	S
Industrial engineers	3,000	3,000	*	S	1,000
U.S. citizen	3,000	2,000	S	S	1,000
Native-born	2,000	2,000	S	S	1,000
Naturalized	1,000	500	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	500	500	S	S	S
Temporary resident	1,000	1,000	S	S	S
Mechanical engineers	4,000	4,000	1,000	S	1,000
U.S. citizen	4,000	4,000	1,000	S	1,000
Native-born	4,000	4,000	500	S	1,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	500	S	S
Postsecondary teachers-engineering	1,000	S	1,000	1,000	S
U.S. citizen	1,000	S	1,000	1,000	S
Native-born	1,000	S	1,000	1,000	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Naturalized	500	S	S	S	S
Non-U.S. citizen	500	S	500	S	S
Permanent resident	S	S	S	S	S
Temporary resident	500	S	500	S	S
Other engineers	6,000	6,000	1,000	S	2,000
U.S. citizen	6,000	6,000	1,000	S	2,000
Native-born	6,000	5,000	1,000	S	2,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	500	S	S
S&E-related occupations	23,000	17,000	7,000	13,000	8,000
U.S. citizen	23,000	17,000	7,000	13,000	8,000
Native-born	22,000	16,000	6,000	13,000	8,000
Naturalized	6,000	6,000	1,000	2,000	2,000
Non-U.S. citizen	3,000	3,000	1,000	1,000	1,000
Permanent resident	3,000	2,000	1,000	1,000	1,000
Temporary resident	2,000	1,000	500	S	S
Health-related occupations	16,000	15,000	6,000	6,000	6,000
U.S. citizen	15,000	14,000	6,000	6,000	6,000
Native-born	15,000	14,000	6,000	6,000	6,000
Naturalized	5,000	4,000	1,000	1,000	2,000
Non-U.S. citizen	2,000	2,000	1,000	S	S
Permanent resident	2,000	2,000	1,000	S	S
Temporary resident	S	S	S	S	S
S&E managers	7,000	6,000	2,000	S	4,000
U.S. citizen	7,000	6,000	2,000	S	4,000
Native-born	7,000	6,000	2,000	S	4,000
Naturalized	2,000	2,000	500	S	500
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	500	500	S	S	S
S&E precollege teachers	12,000	2,000	S	12,000	500
U.S. citizen	12,000	2,000	S	12,000	500
Native-born	12,000	2,000	S	12,000	500
Naturalized	2,000	S	S	2,000	S
Non-U.S. citizen	1,000	S	S	1,000	S
Permanent resident	1,000	S	S	1,000	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	6,000	5,000	1,000	S	2,000
U.S. citizen	6,000	5,000	1,000	S	2,000
Native-born	5,000	4,000	1,000	S	2,000
Naturalized	3,000	3,000	500	S	1,000
Non-U.S. citizen	2,000	2,000	500	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	500	S	S
Other S&E-related occupations	5,000	5,000	S	S	1,000
U.S. citizen	5,000	5,000	S	S	1,000
Native-born	5,000	5,000	S	S	1,000
Naturalized	2,000	2,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Non-S&E occupations	38,000	31,000	9,000	18,000	14,000
U.S. citizen	36,000	28,000	9,000	18,000	13,000
Native-born	35,000	28,000	9,000	18,000	12,000
Naturalized	9,000	7,000	2,000	3,000	4,000
Non-U.S. citizen	8,000	7,000	2,000	2,000	2,000
Permanent resident	7,000	7,000	1,000	2,000	2,000
Temporary resident	4,000	3,000	1,000	S	S
Art/humanities/related occupations	8,000	8,000	3,000	S	2,000
U.S. citizen	8,000	7,000	3,000	S	1,000
Native-born	8,000	7,000	3,000	S	1,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	2,000	S	S	S	S
Temporary resident	S	S	S	S	S
Management-related occupations	16,000	14,000	4,000	3,000	7,000
U.S. citizen	16,000	14,000	4,000	3,000	7,000
Native-born	15,000	14,000	4,000	2,000	6,000
Naturalized	5,000	4,000	1,000	S	2,000
Non-U.S. citizen	4,000	3,000	S	S	1,000
Permanent resident	4,000	3,000	S	S	1,000
Temporary resident	2,000	2,000	S	S	S
Non-S&E Managers	13,000	11,000	3,000	6,000	5,000
U.S. citizen	14,000	11,000	3,000	6,000	5,000
Native-born	13,000	11,000	3,000	6,000	5,000
Naturalized	3,000	3,000	1,000	500	1,000
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Non-S&E postsecondary teachers	6,000	S	5,000	3,000	1,000
U.S. citizen	5,000	S	5,000	3,000	1,000
Native-born	5,000	S	4,000	3,000	1,000
Naturalized	1,000	S	500	500	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	500	S	500	S	S
Temporary resident	500	S	500	S	S
Non-S&E precollege/other teachers	14,000	3,000	1,000	14,000	1,000
U.S. citizen	14,000	3,000	1,000	14,000	1,000
Native-born	15,000	3,000	1,000	14,000	1,000
Naturalized	2,000	1,000	S	2,000	S
Non-U.S. citizen	2,000	S	S	1,000	S
Permanent resident	2,000	S	S	1,000	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	16,000	16,000	S	S	1,000
U.S. citizen	15,000	15,000	S	S	1,000
Native-born	14,000	14,000	S	S	S
Naturalized	4,000	4,000	S	S	S
Non-U.S. citizen	3,000	3,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	1,000	1,000	S	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Social services/related occupations	12,000	10,000	3,000	6,000	6,000
U.S. citizen	12,000	10,000	3,000	6,000	6,000
Native-born	12,000	10,000	3,000	6,000	6,000
Naturalized	3,000	2,000	1,000	1,000	2,000
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	18,000	16,000	5,000	5,000	9,000
U.S. citizen	17,000	14,000	5,000	5,000	9,000
Native-born	16,000	14,000	5,000	5,000	8,000
Naturalized	4,000	3,000	1,000	S	2,000
Non-U.S. citizen	5,000	5,000	1,000	1,000	1,000
Permanent resident	4,000	4,000	1,000	1,000	1,000
Temporary resident	2,000	2,000	500	S	S
Doctorate degrees, all occupations	11,000	7,000	7,000	5,000	3,000
U.S. citizen	10,000	6,000	6,000	5,000	3,000
Native-born	9,000	6,000	6,000	4,000	2,000
Naturalized	3,000	2,000	2,000	1,000	2,000
Non-U.S. citizen	4,000	3,000	3,000	1,000	1,000
Permanent resident	4,000	3,000	2,000	1,000	1,000
Temporary resident	2,000	1,000	2,000	*	1,000
S&E occupations	5,000	3,000	4,000	1,000	2,000
U.S. citizen	5,000	3,000	3,000	1,000	2,000
Native-born	4,000	2,000	3,000	1,000	2,000
Naturalized	2,000	1,000	2,000	500	1,000
Non-U.S. citizen	3,000	2,000	3,000	500	1,000
Permanent resident	3,000	2,000	2,000	500	500
Temporary resident	2,000	1,000	1,000	*	1,000
Scientists	5,000	3,000	4,000	1,000	2,000
U.S. citizen	4,000	2,000	3,000	1,000	2,000
Native-born	4,000	2,000	3,000	1,000	2,000
Naturalized	2,000	1,000	1,000	500	1,000
Non-U.S. citizen	3,000	2,000	3,000	500	1,000
Permanent resident	3,000	1,000	2,000	500	500
Temporary resident	2,000	1,000	1,000	*	1,000
Biological/agricultural/other life scientists	3,000	1,000	3,000	500	1,000
U.S. citizen	3,000	1,000	2,000	500	1,000
Native-born	2,000	1,000	2,000	500	1,000
Naturalized	1,000	1,000	1,000	*	500
Non-U.S. citizen	2,000	1,000	2,000	*	1,000
Permanent resident	1,000	1,000	1,000	S	500
Temporary resident	1,000	1,000	1,000	S	500
Agricultural/food scientists	500	500	500	S	500
U.S. citizen	500	500	500	S	500
Native-born	500	500	500	S	500
Naturalized	500	500	*	S	S
Non-U.S. citizen	500	500	500	S	S
Permanent resident	500	*	500	S	S
Temporary resident	*	*	*	S	S
Biological/medical scientists	3,000	1,000	2,000	*	1,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
U.S. citizen	2,000	1,000	2,000	*	1,000
Native-born	2,000	1,000	1,000	*	1,000
Naturalized	1,000	1,000	1,000	S	500
Non-U.S. citizen	2,000	1,000	2,000	S	1,000
Permanent resident	1,000	1,000	1,000	S	500
Temporary resident	1,000	500	1,000	S	500
Environmental life scientists	500	*	500	S	500
U.S. citizen	500	*	500	S	500
Native-born	500	*	*	S	500
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-life/related sciences	1,000	S	1,000	500	S
U.S. citizen	1,000	S	1,000	500	S
Native-born	1,000	S	1,000	500	S
Naturalized	500	S	500	*	S
Non-U.S. citizen	1,000	S	500	*	S
Permanent resident	500	S	500	S	S
Temporary resident	500	S	500	S	S
Computer/mathematical scientists	3,000	2,000	3,000	500	1,000
U.S. citizen	2,000	1,000	2,000	500	1,000
Native-born	2,000	1,000	1,000	500	1,000
Naturalized	1,000	1,000	1,000	*	500
Non-U.S. citizen	2,000	1,000	2,000	*	*
Permanent resident	2,000	1,000	2,000	*	*
Temporary resident	1,000	1,000	1,000	S	S
Computer/information scientists	2,000	2,000	1,000	*	1,000
U.S. citizen	1,000	1,000	1,000	*	1,000
Native-born	1,000	1,000	1,000	*	500
Naturalized	1,000	1,000	500	S	500
Non-U.S. citizen	1,000	1,000	500	S	*
Permanent resident	1,000	1,000	*	S	S
Temporary resident	1,000	1,000	500	S	S
Mathematical scientists	1,000	500	500	S	500
U.S. citizen	1,000	500	500	S	500
Native-born	500	500	500	S	500
Naturalized	500	500	*	S	500
Non-U.S. citizen	500	500	500	S	S
Permanent resident	500	500	*	S	S
Temporary resident	500	500	500	S	S
Postsecondary teachers-computer/mathematical sciences	2,000	S	2,000	500	S
U.S. citizen	1,000	S	1,000	500	S
Native-born	1,000	S	1,000	500	S
Naturalized	1,000	S	1,000	*	S
Non-U.S. citizen	2,000	S	2,000	*	S
Permanent resident	2,000	S	2,000	S	S
Temporary resident	500	S	500	S	S
Physical/related scientists	2,000	1,000	1,000	500	1,000
U.S. citizen	2,000	1,000	1,000	500	1,000
Native-born	1,000	1,000	1,000	500	1,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Naturalized	1,000	1,000	500	*	500
Non-U.S. citizen	1,000	1,000	1,000	*	500
Permanent resident	1,000	1,000	1,000	*	*
Temporary resident	1,000	500	1,000	S	*
Chemists, except biochemists	1,000	1,000	1,000	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	1,000	500	S	500
Naturalized	1,000	500	500	S	500
Non-U.S. citizen	1,000	1,000	500	S	*
Permanent resident	1,000	500	500	S	S
Temporary resident	500	500	500	S	S
Earth/atmospheric/ocean scientists	1,000	500	500	S	500
U.S. citizen	1,000	500	500	S	500
Native-born	500	500	500	S	500
Naturalized	500	*	*	S	500
Non-U.S. citizen	500	500	500	S	S
Permanent resident	500	*	*	S	S
Temporary resident	500	*	500	S	S
Physicists/astronomers	1,000	1,000	1,000	S	500
U.S. citizen	1,000	500	500	S	500
Native-born	500	500	500	S	500
Naturalized	500	500	500	S	500
Non-U.S. citizen	500	500	500	S	*
Permanent resident	500	500	500	S	*
Temporary resident	500	500	500	S	*
Postsecondary teachers-physical/related sciences	1,000	S	1,000	500	S
U.S. citizen	1,000	S	1,000	500	S
Native-born	1,000	S	1,000	500	S
Naturalized	500	S	500	*	S
Non-U.S. citizen	1,000	S	1,000	*	S
Permanent resident	1,000	S	1,000	*	S
Temporary resident	500	S	500	S	S
Other physical/related scientists	1,000	500	1,000	S	500
U.S. citizen	1,000	500	500	S	500
Native-born	500	500	500	S	*
Naturalized	500	500	S	S	*
Non-U.S. citizen	500	500	500	S	S
Permanent resident	500	*	*	S	S
Temporary resident	500	S	*	S	S
Social/related scientists	2,000	1,000	2,000	1,000	1,000
U.S. citizen	2,000	1,000	2,000	1,000	1,000
Native-born	2,000	1,000	2,000	1,000	1,000
Naturalized	1,000	500	1,000	500	500
Non-U.S. citizen	1,000	500	1,000	*	*
Permanent resident	1,000	500	500	*	*
Temporary resident	500	500	500	S	S
Economists	500	500	500	S	500
U.S. citizen	500	500	500	S	500
Native-born	500	500	500	S	500
Naturalized	500	*	*	S	*
Non-U.S. citizen	500	500	*	S	*

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Permanent resident	500	*	*	S	*
Temporary resident	500	500	S	S	S
Political/related scientists	500	*	500	S	*
U.S. citizen	500	*	500	S	*
Native-born	500	*	500	S	*
Naturalized	*	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	*	2,000	1,000	S
U.S. citizen	2,000	*	2,000	1,000	S
Native-born	2,000	*	2,000	500	S
Naturalized	1,000	S	1,000	*	S
Non-U.S. citizen	500	S	500	*	S
Permanent resident	500	S	500	*	S
Temporary resident	500	S	500	S	S
Psychologists	1,000	1,000	1,000	1,000	500
U.S. citizen	1,000	1,000	500	1,000	500
Native-born	1,000	1,000	500	500	500
Naturalized	500	500	500	*	*
Non-U.S. citizen	500	*	500	S	S
Permanent resident	500	*	*	S	S
Temporary resident	*	S	*	S	S
Sociologists/anthropologists	1,000	1,000	500	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	1,000	500	S	500
Naturalized	*	S	*	S	S
Non-U.S. citizen	*	S	*	S	S
Permanent resident	*	S	S	S	S
Temporary resident	*	S	S	S	S
Other social/related scientists	1,000	1,000	500	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	500	500	S	500
Naturalized	500	*	*	S	*
Non-U.S. citizen	500	*	*	S	S
Permanent resident	*	*	S	S	S
Temporary resident	*	S	S	S	S
Engineers	2,000	2,000	1,000	*	1,000
U.S. citizen	2,000	2,000	1,000	*	500
Native-born	1,000	1,000	1,000	*	500
Naturalized	1,000	1,000	1,000	*	500
Non-U.S. citizen	1,000	1,000	1,000	S	*
Permanent resident	1,000	1,000	500	S	*
Temporary resident	1,000	500	500	S	*
Aerospace/aeronautical/astronautical engineers	1,000	1,000	*	S	500
U.S. citizen	1,000	1,000	*	S	500
Native-born	500	500	S	S	500
Naturalized	500	500	S	S	*
Non-U.S. citizen	*	*	S	S	S
Permanent resident	*	*	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Chemical engineers	1,000	1,000	500	S	*
U.S. citizen	1,000	1,000	*	S	*
Native-born	500	500	*	S	*
Naturalized	500	500	S	S	S
Non-U.S. citizen	500	500	*	S	S
Permanent resident	500	500	S	S	S
Temporary resident	500	*	*	S	S
Civil/architectural/sanitary engineers	500	500	500	S	500
U.S. citizen	500	500	*	S	500
Native-born	500	500	*	S	*
Naturalized	500	500	S	S	*
Non-U.S. citizen	500	500	*	S	S
Permanent resident	500	500	S	S	S
Temporary resident	500	*	S	S	S
Electrical/computer hardware engineers	1,000	1,000	500	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	500	500	500	S	500
Naturalized	500	500	500	S	*
Non-U.S. citizen	500	500	500	S	S
Permanent resident	500	500	*	S	S
Temporary resident	500	500	*	S	S
Industrial engineers	1,000	1,000	*	S	S
U.S. citizen	1,000	1,000	*	S	S
Native-born	1,000	1,000	S	S	S
Naturalized	*	*	S	S	S
Non-U.S. citizen	*	*	S	S	S
Permanent resident	*	*	S	S	S
Temporary resident	S	S	S	S	S
Mechanical engineers	500	500	500	S	500
U.S. citizen	500	500	500	S	500
Native-born	500	500	*	S	*
Naturalized	500	500	*	S	*
Non-U.S. citizen	500	500	*	S	S
Permanent resident	500	500	S	S	S
Temporary resident	500	500	S	S	S
Postsecondary teachers-engineering	1,000	S	1,000	*	S
U.S. citizen	1,000	S	1,000	*	S
Native-born	1,000	S	1,000	*	S
Naturalized	500	S	500	*	S
Non-U.S. citizen	500	S	500	S	S
Permanent resident	500	S	500	S	S
Temporary resident	500	S	500	S	S
Other engineers	1,000	1,000	500	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	1,000	500	S	500
Naturalized	500	500	*	S	500
Non-U.S. citizen	1,000	500	500	S	S
Permanent resident	500	500	*	S	S
Temporary resident	500	500	500	S	S
S&E-related occupations	5,000	3,000	2,000	3,000	2,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
U.S. citizen	5,000	3,000	2,000	3,000	2,000
Native-born	4,000	3,000	1,000	3,000	500
Naturalized	2,000	1,000	1,000	500	1,000
Non-U.S. citizen	1,000	1,000	1,000	500	500
Permanent resident	1,000	1,000	500	500	500
Temporary resident	1,000	1,000	1,000	S	S
Health-related occupations	3,000	3,000	2,000	500	1,000
U.S. citizen	3,000	2,000	2,000	500	1,000
Native-born	3,000	2,000	1,000	500	500
Naturalized	2,000	1,000	1,000	S	1,000
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	500	S	S
Temporary resident	500	S	*	S	S
S&E managers	1,000	1,000	500	*	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	1,000	500	S	500
Naturalized	500	500	500	S	*
Non-U.S. citizen	500	500	*	S	S
Permanent resident	500	500	S	S	S
Temporary resident	500	*	S	S	S
S&E precollege teachers	3,000	S	S	3,000	S
U.S. citizen	3,000	S	S	3,000	S
Native-born	3,000	S	S	3,000	S
Naturalized	500	S	S	500	S
Non-U.S. citizen	500	S	S	500	S
Permanent resident	500	S	S	500	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	1,000	1,000	1,000	S	*
U.S. citizen	1,000	500	*	S	*
Native-born	500	500	*	S	*
Naturalized	500	500	S	S	*
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	1,000	*	1,000	S	S
Other S&E-related occupations	2,000	1,000	S	S	*
U.S. citizen	2,000	1,000	S	S	*
Native-born	1,000	1,000	S	S	S
Naturalized	*	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	8,000	5,000	5,000	4,000	1,000
U.S. citizen	8,000	5,000	5,000	4,000	1,000
Native-born	7,000	5,000	5,000	4,000	1,000
Naturalized	2,000	2,000	1,000	500	500
Non-U.S. citizen	2,000	2,000	1,000	1,000	*
Permanent resident	2,000	2,000	1,000	1,000	*
Temporary resident	500	500	500	S	S
Art/humanities/related occupations	1,000	1,000	500	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	1,000	500	S	500

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Naturalized	500	500	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Management-related occupations	4,000	2,000	3,000	1,000	1,000
U.S. citizen	3,000	2,000	3,000	1,000	1,000
Native-born	3,000	2,000	3,000	1,000	1,000
Naturalized	1,000	1,000	*	S	500
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	500	500	S	S	S
Non-S&E managers	4,000	2,000	2,000	3,000	1,000
U.S. citizen	4,000	2,000	2,000	3,000	1,000
Native-born	4,000	2,000	2,000	3,000	1,000
Naturalized	1,000	1,000	500	S	*
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	500	S	S
Temporary resident	*	*	S	S	S
Non-S&E postsecondary teachers	3,000	*	3,000	1,000	S
U.S. citizen	3,000	*	3,000	1,000	S
Native-born	3,000	S	3,000	1,000	S
Naturalized	1,000	S	1,000	500	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	1,000	S	500	S	S
Temporary resident	500	S	500	S	S
Non-S&E precollege/other teachers	2,000	500	S	2,000	S
U.S. citizen	2,000	500	S	2,000	S
Native-born	2,000	500	S	2,000	S
Naturalized	*	S	S	*	S
Non-U.S. citizen	1,000	S	S	1,000	S
Permanent resident	1,000	S	S	1,000	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	3,000	3,000	*	S	S
U.S. citizen	3,000	3,000	S	S	S
Native-born	3,000	3,000	S	S	S
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	*	*	S	S	S
Social services/related occupations	2,000	2,000	1,000	500	500
U.S. citizen	2,000	2,000	1,000	500	500
Native-born	2,000	2,000	1,000	500	500
Naturalized	500	500	S	S	S
Non-U.S. citizen	*	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	2,000	2,000	1,000	1,000	1,000
U.S. citizen	2,000	2,000	1,000	1,000	1,000
Native-born	2,000	1,000	1,000	1,000	1,000
Naturalized	1,000	1,000	*	S	500

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	*	*	S	S	S

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Business/industry includes self-employed individuals, nonprofit organizations, and other unspecified. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Government includes federal, state, and local employers. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
All degree levels and occupations[a]	82,000	50,000	40,000	74,000	40,000	54,000
<30	30,000	19,000	14,000	24,000	12,000	19,000
30–39	45,000	24,000	23,000	40,000	22,000	31,000
40–49	49,000	26,000	24,000	45,000	22,000	30,000
50–59	47,000	21,000	21,000	41,000	16,000	31,000
60+	25,000	11,000	11,000	22,000	8,000	17,000
S&E occupations	39,000	28,000	10,000	30,000	23,000	17,000
<30	16,000	13,000	6,000	10,000	9,000	6,000
30–39	21,000	15,000	5,000	16,000	14,000	11,000
40–49	25,000	16,000	5,000	19,000	15,000	10,000
50–59	16,000	10,000	5,000	14,000	9,000	9,000
60+	8,000	6,000	3,000	6,000	3,000	4,000
Scientists	34,000	23,000	10,000	25,000	21,000	14,000
<30	15,000	11,000	6,000	9,000	9,000	5,000
30–39	19,000	13,000	4,000	14,000	13,000	9,000
40–49	19,000	12,000	5,000	14,000	14,000	9,000
50–59	13,000	7,000	4,000	11,000	9,000	7,000
60+	7,000	4,000	3,000	4,000	3,000	3,000
Biological/agricultural/other life scientists	10,000	8,000	3,000	8,000	3,000	6,000
<30	5,000	5,000	2,000	3,000	2,000	2,000
30–39	5,000	4,000	1,000	3,000	1,000	4,000
40–49	6,000	5,000	2,000	5,000	1,000	4,000
50–59	4,000	3,000	1,000	4,000	1,000	3,000
60+	2,000	1,000	1,000	2,000	500	2,000
Agricultural/food scientists	4,000	3,000	1,000	2,000	1,000	2,000
<30	2,000	2,000	S	1,000	S	500
30–39	2,000	2,000	500	1,000	500	1,000
40–49	2,000	2,000	1,000	2,000	*	1,000
50–59	2,000	1,000	S	1,000	500	1,000
60+	1,000	500	S	1,000	S	500
Biological/medical scientists	9,000	7,000	2,000	6,000	2,000	5,000
<30	5,000	5,000	1,000	2,000	1,000	2,000
30–39	5,000	4,000	1,000	3,000	1,000	3,000
40–49	5,000	4,000	500	4,000	1,000	3,000
50–59	3,000	2,000	500	3,000	1,000	2,000
60+	2,000	1,000	1,000	1,000	500	1,000
Environmental life scientists	4,000	2,000	500	4,000	2,000	3,000
<30	1,000	500	S	1,000	1,000	500
30–39	1,000	1,000	S	1,000	S	1,000
40–49	2,000	2,000	S	2,000	1,000	1,000
50–59	3,000	1,000	S	2,000	1,000	2,000
60+	1,000	*	S	1,000	S	S
Postsecondary teachers-life/related sciences	3,000	2,000	2,000	1,000	1,000	1,000
<30	2,000	1,000	1,000	1,000	S	S
30–39	1,000	1,000	1,000	1,000	S	500
40–49	1,000	1,000	1,000	1,000	*	500
50–59	1,000	1,000	1,000	500	S	500
60+	1,000	500	1,000	500	S	500
Computer/mathematical scientists	27,000	18,000	7,000	21,000	21,000	9,000
<30	11,000	8,000	4,000	8,000	9,000	3,000
30–39	16,000	11,000	3,000	12,000	13,000	5,000
40–49	15,000	9,000	3,000	12,000	13,000	4,000
50–59	10,000	6,000	3,000	8,000	8,000	4,000
60+	5,000	3,000	2,000	3,000	3,000	2,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Computer/information scientists	26,000	17,000	6,000	21,000	21,000	8,000
<30	11,000	7,000	4,000	8,000	8,000	3,000
30–39	16,000	10,000	2,000	12,000	13,000	5,000
40–49	14,000	9,000	3,000	11,000	12,000	4,000
50–59	9,000	5,000	2,000	8,000	8,000	3,000
60+	4,000	3,000	1,000	3,000	3,000	1,000
Mathematical scientists	6,000	4,000	1,000	3,000	4,000	3,000
<30	2,000	1,000	S	1,000	2,000	1,000
30–39	3,000	3,000	*	2,000	2,000	1,000
40–49	3,000	1,000	*	2,000	3,000	3,000
50–59	2,000	2,000	1,000	2,000	1,000	500
60+	1,000	1,000	S	1,000	1,000	500
Postsecondary teachers-computer/ mathematical sciences	4,000	3,000	4,000	1,000	2,000	2,000
<30	2,000	2,000	2,000	500	500	500
30–39	2,000	1,000	2,000	1,000	1,000	500
40–49	2,000	1,000	2,000	1,000	2,000	500
50–59	2,000	1,000	2,000	1,000	1,000	1,000
60+	1,000	1,000	1,000	500	1,000	1,000
Physical/related scientists	9,000	7,000	3,000	6,000	3,000	6,000
<30	4,000	4,000	2,000	2,000	1,000	2,000
30–39	4,000	3,000	2,000	3,000	1,000	2,000
40–49	5,000	4,000	2,000	3,000	2,000	4,000
50–59	3,000	3,000	1,000	2,000	2,000	2,000
60+	2,000	2,000	1,000	1,000	1,000	1,000
Chemists, except biochemists	6,000	5,000	500	4,000	1,000	3,000
<30	4,000	4,000	S	2,000	1,000	1,000
30–39	2,000	2,000	*	2,000	1,000	1,000
40–49	3,000	2,000	*	3,000	1,000	2,000
50–59	2,000	2,000	*	2,000	500	1,000
60+	1,000	1,000	*	500	*	1,000
Earth/atmospheric/ocean scientists	5,000	4,000	500	2,000	2,000	2,000
<30	1,000	1,000	S	500	500	500
30–39	1,000	1,000	500	1,000	1,000	1,000
40–49	4,000	3,000	S	1,000	2,000	1,000
50–59	2,000	2,000	S	1,000	1,000	1,000
60+	1,000	1,000	*	500	500	1,000
Physicists/astronomers	2,000	1,000	500	1,000	1,000	1,000
<30	500	500	S	*	500	500
30–39	1,000	1,000	*	1,000	500	500
40–49	1,000	1,000	*	500	500	500
50–59	1,000	1,000	S	1,000	1,000	1,000
60+	1,000	500	*	500	500	500
Postsecondary teachers-physical/ related sciences	3,000	2,000	3,000	1,000	500	2,000
<30	1,000	1,000	1,000	500	*	1,000
30–39	1,000	1,000	1,000	1,000	*	*
40–49	2,000	1,000	2,000	500	*	1,000
50–59	1,000	1,000	1,000	500	*	*
60+	1,000	500	1,000	500	500	500
Other physical/related scientists	4,000	3,000	500	2,000	1,000	3,000
<30	1,000	1,000	S	1,000	1,000	1,000
30–39	2,000	2,000	500	1,000	500	1,000
40–49	3,000	1,000	S	1,000	S	2,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	1,000	1,000	S	1,000	S	1,000
60+	1,000	500	S	S	S	500
Social/related scientists	14,000	9,000	5,000	10,000	3,000	9,000
<30	6,000	5,000	2,000	4,000	1,000	3,000
30–39	7,000	5,000	3,000	5,000	2,000	5,000
40–49	7,000	4,000	2,000	5,000	2,000	5,000
50–59	6,000	3,000	2,000	4,000	2,000	4,000
60+	3,000	2,000	2,000	2,000	1,000	2,000
Economists	3,000	3,000	1,000	2,000	1,000	2,000
<30	1,000	1,000	S	500	500	1,000
30–39	2,000	1,000	*	2,000	500	1,000
40–49	2,000	1,000	S	1,000	500	1,000
50–59	2,000	2,000	1,000	1,000	S	2,000
60+	1,000	500	S	500	S	1,000
Political/related scientists	2,000	2,000	*	2,000	S	1,000
<30	2,000	1,000	S	1,000	S	1,000
30–39	1,000	1,000	S	1,000	S	1,000
40–49	1,000	1,000	S	1,000	S	S
50–59	1,000	*	S	1,000	S	1,000
60+	500	*	S	*	S	*
Postsecondary teachers-social/related sciences	4,000	3,000	4,000	2,000	1,000	2,000
<30	2,000	1,000	2,000	1,000	S	500
30–39	2,000	1,000	2,000	1,000	S	500
40–49	2,000	1,000	2,000	1,000	1,000	1,000
50–59	2,000	1,000	2,000	1,000	500	1,000
60+	1,000	1,000	1,000	500	*	1,000
Psychologists	6,000	4,000	3,000	4,000	1,000	6,000
<30	3,000	3,000	1,000	1,000	S	1,000
30–39	4,000	2,000	2,000	2,000	500	4,000
40–49	3,000	2,000	1,000	2,000	500	3,000
50–59	3,000	1,000	1,000	2,000	1,000	3,000
60+	2,000	500	500	1,000	*	2,000
Sociologists/anthropologists	3,000	3,000	500	2,000	1,000	2,000
<30	1,000	1,000	S	500	S	S
30–39	1,000	1,000	S	1,000	S	*
40–49	2,000	1,000	*	1,000	S	1,000
50–59	500	500	S	500	S	*
60+	1,000	1,000	S	*	S	1,000
Other social/related scientists	9,000	6,000	1,000	8,000	3,000	6,000
<30	4,000	3,000	S	4,000	500	2,000
30–39	4,000	3,000	*	4,000	1,000	4,000
40–49	5,000	3,000	S	4,000	1,000	3,000
50–59	4,000	2,000	500	3,000	1,000	2,000
60+	2,000	1,000	S	2,000	S	1,000
Engineers	18,000	15,000	3,000	15,000	7,000	9,000
<30	6,000	5,000	1,000	5,000	3,000	2,000
30–39	12,000	8,000	2,000	10,000	4,000	5,000
40–49	12,000	9,000	2,000	10,000	4,000	5,000
50–59	9,000	7,000	1,000	8,000	3,000	5,000
60+	6,000	5,000	1,000	5,000	2,000	2,000
Aerospace/aeronautical/astronautical engineers	5,000	4,000	1,000	4,000	2,000	2,000
<30	1,000	1,000	S	500	1,000	500
30–39	2,000	1,000	S	1,000	1,000	1,000
40–49	3,000	2,000	S	2,000	1,000	2,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	2,000	2,000	S	2,000	1,000	1,000
60+	3,000	3,000	S	3,000	500	500
Chemical engineers	3,000	3,000	500	3,000	1,000	2,000
<30	1,000	1,000	S	1,000	500	1,000
30–39	2,000	2,000	S	2,000	1,000	1,000
40–49	2,000	1,000	S	1,000	1,000	1,000
50–59	2,000	1,000	S	1,000	500	1,000
60+	1,000	1,000	S	1,000	S	500
Civil/architectural/sanitary engineers	8,000	5,000	1,000	7,000	3,000	3,000
<30	2,000	2,000	S	2,000	1,000	1,000
30–39	5,000	3,000	S	5,000	1,000	2,000
40–49	4,000	3,000	500	4,000	2,000	2,000
50–59	3,000	2,000	S	3,000	1,000	2,000
60+	2,000	2,000	S	2,000	1,000	2,000
Electrical/computer hardware engineers	8,000	7,000	1,000	6,000	4,000	3,000
<30	3,000	3,000	S	1,000	2,000	1,000
30–39	6,000	5,000	*	4,000	3,000	2,000
40–49	5,000	4,000	1,000	4,000	2,000	2,000
50–59	4,000	4,000	500	4,000	2,000	2,000
60+	2,000	1,000	S	2,000	1,000	1,000
Industrial engineers	5,000	4,000	1,000	4,000	1,000	2,000
<30	1,000	1,000	S	1,000	500	500
30–39	3,000	3,000	S	3,000	1,000	1,000
40–49	3,000	2,000	S	2,000	1,000	1,000
50–59	2,000	1,000	S	2,000	1,000	1,000
60+	1,000	1,000	S	1,000	S	1,000
Mechanical engineers	7,000	7,000	1,000	6,000	2,000	3,000
<30	2,000	2,000	S	2,000	1,000	1,000
30–39	4,000	4,000	S	3,000	1,000	2,000
40–49	4,000	3,000	500	4,000	1,000	2,000
50–59	4,000	3,000	500	3,000	1,000	1,000
60+	2,000	2,000	*	2,000	1,000	1,000
Postsecondary teachers-engineering	2,000	1,000	2,000	1,000	500	500
<30	1,000	1,000	1,000	500	S	500
30–39	1,000	1,000	1,000	500	*	S
40–49	1,000	1,000	1,000	500	500	*
50–59	1,000	1,000	1,000	500	*	*
60+	1,000	500	1,000	500	500	*
Other engineers	12,000	9,000	2,000	11,000	4,000	6,000
<30	4,000	4,000	S	4,000	1,000	1,000
30–39	7,000	4,000	1,000	7,000	3,000	4,000
40–49	8,000	6,000	1,000	7,000	2,000	3,000
50–59	5,000	3,000	500	4,000	1,000	3,000
60+	3,000	2,000	500	2,000	1,000	1,000
S&E-related occupations	48,000	26,000	31,000	36,000	18,000	31,000
<30	18,000	10,000	11,000	10,000	6,000	15,000
30–39	27,000	14,000	17,000	20,000	11,000	22,000
40–49	27,000	12,000	17,000	21,000	10,000	20,000
50–59	24,000	10,000	15,000	17,000	7,000	15,000
60+	13,000	6,000	8,000	9,000	4,000	10,000
Health-related occupations	32,000	19,000	23,000	26,000	11,000	29,000
<30	16,000	8,000	9,000	8,000	3,000	15,000
30–39	21,000	10,000	12,000	15,000	6,000	20,000
40–49	21,000	9,000	13,000	17,000	6,000	19,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	17,000	8,000	10,000	13,000	5,000	14,000
60+	10,000	4,000	5,000	7,000	2,000	9,000
S&E managers	14,000	5,000	2,000	14,000	7,000	6,000
<30	2,000	1,000	S	2,000	1,000	S
30–39	7,000	4,000	1,000	6,000	3,000	3,000
40–49	9,000	3,000	500	9,000	4,000	4,000
50–59	7,000	2,000	S	7,000	2,000	3,000
60+	10,000	4,000	S	7,000	2,000	9,000
S&E precollege teachers	21,000	8,000	20,000	13,000	8,000	7,000
<30	6,000	3,000	6,000	4,000	2,000	1,000
30–39	12,000	4,000	12,000	8,000	3,000	3,000
40–49	11,000	4,000	10,000	6,000	3,000	4,000
50–59	10,000	4,000	10,000	6,000	4,000	3,000
60+	6,000	3,000	6,000	2,000	2,000	3,000
S&E technicians/technologists	15,000	10,000	3,000	10,000	10,000	7,000
<30	6,000	4,000	1,000	3,000	4,000	2,000
30–39	8,000	6,000	1,000	5,000	6,000	4,000
40–49	9,000	5,000	1,000	6,000	6,000	4,000
50–59	6,000	4,000	1,000	4,000	3,000	4,000
60+	3,000	2,000	S	2,000	2,000	1,000
Other S&E-related occupations	10,000	9,000	S	9,000	4,000	6,000
<30	3,000	3,000	S	2,000	2,000	1,000
30–39	6,000	5,000	S	5,000	2,000	3,000
40–49	5,000	4,000	S	5,000	2,000	3,000
50–59	5,000	4,000	S	4,000	1,000	3,000
60+	4,000	2,000	S	3,000	1,000	3,000
Non-S&E occupations	70,000	34,000	25,000	65,000	25,000	44,000
<30	21,000	10,000	9,000	19,000	7,000	13,000
30–39	38,000	15,000	14,000	36,000	13,000	22,000
40–49	38,000	17,000	17,000	36,000	14,000	21,000
50–59	39,000	15,000	15,000	33,000	10,000	25,000
60+	21,000	8,000	7,000	19,000	7,000	14,000
Art/humanities/related occupations	17,000	10,000	3,000	13,000	7,000	9,000
<30	4,000	2,000	2,000	4,000	2,000	2,000
30–39	10,000	6,000	*	8,000	5,000	5,000
40–49	8,000	5,000	3,000	6,000	2,000	5,000
50–59	7,000	5,000	2,000	5,000	3,000	6,000
60+	4,000	2,000	1,000	3,000	2,000	3,000
Management-related occupations	34,000	12,000	6,000	33,000	11,000	15,000
<30	9,000	4,000	1,000	9,000	3,000	4,000
30–39	18,000	6,000	3,000	17,000	4,000	8,000
40–49	17,000	7,000	4,000	16,000	7,000	9,000
50–59	16,000	6,000	4,000	15,000	5,000	9,000
60+	8,000	3,000	2,000	7,000	3,000	5,000
Non-S&E managers	26,000	9,000	3,000	26,000	6,000	9,000
<30	3,000	1,000	S	3,000	S	1,000
30–39	13,000	3,000	1,000	13,000	3,000	4,000
40–49	15,000	7,000	2,000	15,000	3,000	5,000
50–59	13,000	4,000	2,000	13,000	3,000	6,000
60+	7,000	4,000	1,000	7,000	2,000	2,000
Non-S&E postsecondary teachers	7,000	4,000	7,000	4,000	2,000	3,000
<30	3,000	3,000	3,000	1,000	1,000	1,000
30–39	3,000	2,000	2,000	1,000	1,000	1,000
40–49	3,000	2,000	3,000	2,000	1,000	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	4,000	2,000	4,000	2,000	2,000	1,000
60+	2,000	1,000	2,000	1,000	500	1,000
Non-S&E precollege/other teachers	21,000	8,000	21,000	13,000	5,000	8,000
<30	7,000	4,000	7,000	4,000	S	2,000
30–39	12,000	4,000	12,000	7,000	2,000	4,000
40–49	12,000	4,000	12,000	7,000	3,000	4,000
50–59	12,000	4,000	11,000	6,000	2,000	4,000
60+	5,000	1,000	4,000	3,000	1,000	2,000
Sales/marketing occupations	32,000	13,000	5,000	31,000	9,000	14,000
<30	11,000	3,000	1,000	10,000	4,000	4,000
30–39	20,000	8,000	3,000	20,000	4,000	6,000
40–49	17,000	6,000	2,000	16,000	4,000	7,000
50–59	15,000	5,000	2,000	15,000	4,000	8,000
60+	10,000	3,000	2,000	10,000	4,000	5,000
Social services/related occupations	17,000	5,000	10,000	13,000	5,000	15,000
<30	7,000	3,000	3,000	5,000	2,000	6,000
30–39	10,000	3,000	6,000	7,000	4,000	9,000
40–49	9,000	3,000	5,000	5,000	2,000	8,000
50–59	8,000	2,000	4,000	7,000	2,000	7,000
60+	5,000	2,000	3,000	3,000	S	4,000
Other non-S&E occupations	41,000	16,000	12,000	35,000	15,000	30,000
<30	15,000	6,000	3,000	12,000	5,000	10,000
30–39	22,000	8,000	6,000	19,000	8,000	16,000
40–49	21,000	9,000	7,000	18,000	9,000	16,000
50–59	23,000	8,000	6,000	19,000	6,000	17,000
60+	14,000	4,000	3,000	11,000	4,000	10,000
Bachelor's degrees, all occupations	69,000	39,000	29,000	63,000	34,000	47,000
<30	27,000	15,000	12,000	22,000	11,000	15,000
30–39	40,000	20,000	18,000	34,000	20,000	26,000
40–49	41,000	18,000	16,000	37,000	20,000	26,000
50–59	36,000	17,000	15,000	32,000	14,000	22,000
60+	19,000	8,000	7,000	15,000	7,000	12,000
S&E occupations	32,000	23,000	8,000	25,000	22,000	13,000
<30	13,000	11,000	4,000	9,000	8,000	5,000
30–39	19,000	13,000	3,000	14,000	13,000	8,000
40–49	19,000	12,000	4,000	15,000	14,000	8,000
50–59	12,000	8,000	2,000	10,000	7,000	7,000
60+	6,000	4,000	1,000	5,000	3,000	3,000
Scientists	27,000	18,000	7,000	21,000	20,000	11,000
<30	13,000	9,000	4,000	8,000	8,000	4,000
30–39	16,000	11,000	3,000	12,000	12,000	7,000
40–49	16,000	9,000	4,000	12,000	13,000	7,000
50–59	9,000	6,000	2,000	8,000	6,000	5,000
60+	5,000	3,000	1,000	3,000	2,000	2,000
Biological/agricultural/other life scientists	9,000	6,000	2,000	6,000	2,000	5,000
<30	5,000	5,000	1,000	3,000	1,000	2,000
30–39	4,000	3,000	1,000	2,000	1,000	3,000
40–49	5,000	4,000	1,000	4,000	1,000	4,000
50–59	4,000	2,000	S	3,000	1,000	2,000
60+	1,000	1,000	S	1,000	S	1,000
Agricultural/food scientists	3,000	3,000	1,000	2,000	500	2,000
<30	2,000	2,000	S	1,000	S	500
30–39	1,000	1,000	S	1,000	S	S
40–49	2,000	1,000	S	1,000	S	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	2,000	1,000	S	1,000	S	1,000
60+	1,000	S	S	1,000	S	S
Biological/medical scientists	7,000	6,000	1,000	5,000	1,000	5,000
<30	4,000	4,000	1,000	2,000	1,000	2,000
30–39	4,000	3,000	S	2,000	1,000	3,000
40–49	4,000	2,000	S	4,000	1,000	3,000
50–59	2,000	2,000	S	2,000	500	1,000
60+	1,000	500	S	S	S	500
Environmental life scientists	4,000	2,000	S	3,000	2,000	2,000
<30	1,000	500	S	1,000	S	500
30–39	1,000	500	S	500	S	1,000
40–49	2,000	2,000	S	2,000	1,000	1,000
50–59	2,000	500	S	2,000	1,000	1,000
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	2,000	1,000	1,000	1,000	S	S
<30	1,000	1,000	1,000	S	S	S
30–39	1,000	S	S	S	S	S
40–49	1,000	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Computer/mathematical scientists	24,000	15,000	6,000	19,000	20,000	8,000
<30	10,000	6,000	4,000	6,000	8,000	3,000
30–39	15,000	9,000	3,000	11,000	12,000	5,000
40–49	13,000	8,000	3,000	10,000	12,000	4,000
50–59	7,000	5,000	2,000	6,000	6,000	3,000
60+	4,000	2,000	1,000	2,000	2,000	1,000
Computer/information scientists	23,000	14,000	6,000	19,000	19,000	8,000
<30	9,000	6,000	4,000	6,000	7,000	3,000
30–39	14,000	9,000	2,000	11,000	12,000	5,000
40–49	12,000	8,000	3,000	10,000	11,000	4,000
50–59	7,000	5,000	1,000	6,000	6,000	3,000
60+	3,000	2,000	1,000	2,000	2,000	1,000
Mathematical scientists	5,000	3,000	500	3,000	3,000	3,000
<30	2,000	1,000	S	1,000	2,000	S
30–39	2,000	2,000	S	2,000	1,000	S
40–49	3,000	1,000	S	1,000	3,000	3,000
50–59	2,000	2,000	S	2,000	500	500
60+	1,000	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	2,000	1,000	2,000	500	2,000	500
<30	1,000	1,000	1,000	500	500	500
30–39	1,000	500	1,000	S	1,000	S
40–49	2,000	1,000	2,000	S	2,000	S
50–59	1,000	500	1,000	S	1,000	S
60+	1,000	S	1,000	S	S	S
Physical/related scientists	8,000	6,000	2,000	5,000	2,000	5,000
<30	4,000	4,000	1,000	2,000	1,000	2,000
30–39	3,000	2,000	1,000	2,000	1,000	2,000
40–49	4,000	3,000	S	3,000	1,000	4,000
50–59	3,000	2,000	500	2,000	1,000	1,000
60+	1,000	1,000	S	500	500	500
Chemists, except biochemists	6,000	5,000	500	4,000	1,000	3,000
<30	4,000	4,000	S	2,000	1,000	1,000
30–39	2,000	1,000	S	1,000	1,000	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40–49	3,000	2,000	S	2,000	1,000	2,000
50–59	2,000	2,000	S	2,000	S	1,000
60+	500	500	S	500	S	500
Earth/atmospheric/ocean scientists	3,000	3,000	500	2,000	2,000	2,000
<30	1,000	1,000	S	500	500	500
30–39	1,000	1,000	S	1,000	500	1,000
40–49	2,000	2,000	S	1,000	1,000	1,000
50–59	2,000	1,000	S	1,000	1,000	1,000
60+	1,000	500	S	S	S	S
Physicists/astronomers	1,000	1,000	S	500	500	500
<30	500	500	S	S	500	*
30–39	500	500	S	S	S	S
40–49	500	*	S	S	S	S
50–59	500	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	2,000	1,000	2,000	500	S	1,000
<30	1,000	1,000	1,000	500	S	1,000
30–39	1,000	1,000	1,000	S	S	S
40–49	S	S	S	S	S	S
50–59	500	S	500	S	S	S
60+	S	S	S	S	S	S
Other physical/related scientists	4,000	2,000	S	2,000	500	3,000
<30	1,000	1,000	S	1,000	S	1,000
30–39	2,000	2,000	S	1,000	S	1,000
40–49	3,000	1,000	S	1,000	S	2,000
50–59	1,000	1,000	S	1,000	S	1,000
60+	S	S	S	S	S	S
Social/related scientists	8,000	6,000	3,000	6,000	3,000	5,000
<30	5,000	4,000	1,000	3,000	1,000	2,000
30–39	4,000	3,000	1,000	4,000	S	3,000
40–49	3,000	2,000	1,000	2,000	1,000	3,000
50–59	4,000	3,000	1,000	2,000	1,000	3,000
60+	2,000	2,000	S	1,000	S	1,000
Economists	2,000	2,000	S	1,000	500	2,000
<30	1,000	500	S	500	500	500
30–39	500	S	S	S	S	S
40–49	500	S	S	S	S	S
50–59	2,000	S	S	1,000	S	S
60+	S	S	S	S	S	S
Political/related scientists	2,000	2,000	S	1,000	S	1,000
<30	2,000	1,000	S	1,000	S	500
30–39	1,000	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	2,000	1,000	2,000	1,000	S	1,000
<30	1,000	1,000	1,000	S	S	S
30–39	1,000	S	1,000	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Psychologists	3,000	2,000	1,000	1,000	S	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	2,000	2,000	1,000	1,000	S	500
30–39	1,000	S	S	S	S	1,000
40–49	1,000	S	S	S	S	1,000
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Sociologists/anthropologists	2,000	2,000	S	1,000	S	1,000
<30	1,000	1,000	S	S	S	S
30–39	500	500	S	S	S	S
40–49	1,000	S	S	1,000	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other social/related scientists	6,000	4,000	S	6,000	2,000	5,000
<30	3,000	3,000	S	3,000	S	2,000
30–39	4,000	3,000	S	4,000	S	3,000
40–49	3,000	2,000	S	2,000	S	2,000
50–59	3,000	2,000	S	2,000	1,000	2,000
60+	1,000	S	S	1,000	S	S
Engineers	17,000	13,000	2,000	14,000	6,000	8,000
<30	5,000	5,000	1,000	4,000	2,000	2,000
30–39	11,000	8,000	1,000	9,000	4,000	5,000
40–49	10,000	7,000	1,000	8,000	4,000	4,000
50–59	7,000	5,000	1,000	5,000	2,000	4,000
60+	4,000	3,000	500	4,000	1,000	2,000
Aerospace/aeronautical/astronautical engineers	4,000	3,000	S	3,000	2,000	1,000
<30	1,000	1,000	S	500	500	500
30–39	1,000	1,000	S	1,000	500	1,000
40–49	3,000	2,000	S	2,000	1,000	1,000
50–59	2,000	1,000	S	1,000	1,000	1,000
60+	1,000	1,000	S	1,000	S	S
Chemical engineers	3,000	2,000	S	2,000	1,000	2,000
<30	1,000	1,000	S	1,000	500	1,000
30–39	2,000	2,000	S	2,000	1,000	500
40–49	1,000	1,000	S	1,000	1,000	1,000
50–59	1,000	1,000	S	1,000	500	500
60+	500	500	S	500	S	S
Civil/architectural/sanitary engineers	7,000	4,000	1,000	6,000	2,000	3,000
<30	2,000	1,000	S	1,000	1,000	1,000
30–39	5,000	3,000	S	4,000	1,000	1,000
40–49	4,000	3,000	S	3,000	2,000	1,000
50–59	3,000	1,000	S	2,000	1,000	2,000
60+	2,000	1,000	S	2,000	500	1,000
Electrical/computer hardware engineers	7,000	6,000	1,000	5,000	4,000	3,000
<30	2,000	2,000	S	1,000	1,000	1,000
30–39	5,000	5,000	S	3,000	3,000	1,000
40–49	4,000	3,000	S	3,000	2,000	2,000
50–59	3,000	3,000	S	2,000	1,000	2,000
60+	2,000	1,000	S	1,000	500	500
Industrial engineers	4,000	3,000	1,000	3,000	1,000	2,000
<30	1,000	1,000	S	1,000	500	500
30–39	2,000	2,000	S	2,000	1,000	1,000
40–49	2,000	1,000	S	2,000	500	1,000
50–59	2,000	1,000	S	2,000	1,000	1,000
60+	1,000	500	S	1,000	S	1,000
Mechanical engineers	6,000	6,000	500	4,000	2,000	3,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	2,000	2,000	S	1,000	1,000	1,000
30–39	4,000	4,000	S	3,000	1,000	2,000
40–49	3,000	3,000	S	3,000	1,000	1,000
50–59	3,000	2,000	S	2,000	1,000	1,000
60+	2,000	2,000	S	2,000	1,000	1,000
Postsecondary teachers-engineering	1,000	1,000	1,000	500	S	500
<30	1,000	1,000	500	S	S	500
30–39	S	S	S	S	S	S
40–49	500	S	500	S	S	S
50–59	500	S	S	S	S	S
60+	S	S	S	S	S	S
Other engineers	11,000	8,000	2,000	10,000	4,000	6,000
<30	4,000	4,000	S	4,000	1,000	1,000
30–39	6,000	4,000	1,000	6,000	3,000	4,000
40–49	6,000	5,000	1,000	6,000	2,000	2,000
50–59	4,000	3,000	500	3,000	1,000	3,000
60+	3,000	2,000	S	2,000	500	1,000
S&E-related occupations	39,000	21,000	23,000	30,000	16,000	29,000
<30	15,000	8,000	9,000	9,000	6,000	12,000
30–39	23,000	11,000	13,000	16,000	9,000	18,000
40–49	22,000	9,000	12,000	17,000	8,000	17,000
50–59	18,000	8,000	10,000	13,000	6,000	11,000
60+	9,000	5,000	6,000	7,000	4,000	7,000
Health-related occupations	31,000	15,000	17,000	22,000	10,000	26,000
<30	13,000	6,000	7,000	7,000	3,000	12,000
30–39	19,000	7,000	11,000	12,000	5,000	17,000
40–49	18,000	7,000	9,000	14,000	4,000	16,000
50–59	12,000	6,000	7,000	10,000	4,000	11,000
60+	7,000	4,000	4,000	5,000	2,000	6,000
S&E managers	12,000	4,000	2,000	12,000	5,000	5,000
<30	2,000	1,000	S	2,000	1,000	S
30–39	6,000	3,000	S	6,000	3,000	3,000
40–49	8,000	2,000	S	8,000	4,000	4,000
50–59	5,000	2,000	S	5,000	1,000	2,000
60+	7,000	4,000	S	5,000	S	6,000
S&E precollege teachers	14,000	6,000	14,000	9,000	5,000	6,000
<30	5,000	3,000	5,000	3,000	2,000	1,000
30–39	9,000	3,000	9,000	6,000	2,000	3,000
40–49	8,000	4,000	8,000	4,000	2,000	4,000
50–59	7,000	3,000	7,000	4,000	2,000	2,000
60+	4,000	2,000	4,000	1,000	2,000	2,000
S&E technicians/technologists	14,000	9,000	3,000	9,000	10,000	7,000
<30	5,000	4,000	S	3,000	4,000	2,000
30–39	7,000	5,000	1,000	4,000	6,000	4,000
40–49	8,000	4,000	1,000	5,000	5,000	4,000
50–59	6,000	4,000	1,000	4,000	3,000	3,000
60+	2,000	2,000	S	1,000	1,000	1,000
Other S&E-related occupations	9,000	7,000	S	7,000	3,000	5,000
<30	3,000	2,000	S	1,000	2,000	1,000
30–39	5,000	4,000	S	4,000	2,000	3,000
40–49	4,000	3,000	S	3,000	1,000	3,000
50–59	5,000	4,000	S	4,000	1,000	2,000
60+	2,000	2,000	S	2,000	S	1,000
Non-S&E occupations	58,000	26,000	20,000	53,000	22,000	34,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	20,000	8,000	7,000	18,000	7,000	10,000
30–39	33,000	11,000	12,000	31,000	11,000	18,000
40–49	32,000	13,000	11,000	29,000	13,000	16,000
50–59	32,000	11,000	11,000	27,000	9,000	19,000
60+	15,000	6,000	4,000	13,000	5,000	9,000
Art/humanities/related occupations	14,000	7,000	3,000	11,000	7,000	7,000
<30	4,000	2,000	2,000	4,000	2,000	2,000
30–39	8,000	5,000	S	7,000	5,000	4,000
40–49	6,000	4,000	S	5,000	2,000	4,000
50–59	6,000	4,000	S	5,000	3,000	4,000
60+	3,000	S	S	2,000	S	2,000
Management-related occupations	28,000	9,000	5,000	27,000	8,000	12,000
<30	9,000	4,000	S	8,000	2,000	4,000
30–39	16,000	4,000	2,000	15,000	4,000	7,000
40–49	14,000	4,000	4,000	14,000	5,000	7,000
50–59	13,000	5,000	3,000	12,000	4,000	7,000
60+	5,000	3,000	1,000	5,000	2,000	3,000
Non-S&E managers	21,000	7,000	2,000	21,000	5,000	5,000
<30	2,000	500	S	2,000	S	500
30–39	11,000	3,000	S	11,000	3,000	3,000
40–49	12,000	5,000	2,000	12,000	3,000	3,000
50–59	9,000	3,000	2,000	9,000	2,000	4,000
60+	6,000	3,000	S	5,000	1,000	1,000
Non-S&E postsecondary teachers	3,000	2,000	3,000	2,000	1,000	1,000
<30	2,000	1,000	1,000	1,000	1,000	500
30–39	1,000	1,000	1,000	1,000	S	S
40–49	2,000	1,000	1,000	1,000	S	S
50–59	2,000	1,000	2,000	1,000	S	S
60+	1,000	S	500	S	S	S
Non-S&E precollege/other teachers	17,000	6,000	17,000	9,000	4,000	6,000
<30	5,000	2,000	5,000	3,000	S	1,000
30–39	10,000	3,000	10,000	6,000	S	4,000
40–49	8,000	4,000	8,000	4,000	3,000	4,000
50–59	8,000	2,000	8,000	4,000	2,000	3,000
60+	3,000	S	2,000	3,000	S	S
Sales/marketing occupations	28,000	9,000	4,000	27,000	8,000	12,000
<30	10,000	3,000	1,000	10,000	4,000	4,000
30–39	18,000	5,000	3,000	18,000	4,000	6,000
40–49	14,000	4,000	2,000	14,000	3,000	6,000
50–59	13,000	5,000	2,000	12,000	3,000	6,000
60+	8,000	2,000	1,000	7,000	4,000	4,000
Social services/related occupations	12,000	4,000	6,000	8,000	4,000	11,000
<30	6,000	2,000	2,000	4,000	2,000	5,000
30–39	7,000	3,000	4,000	4,000	3,000	6,000
40–49	5,000	1,000	2,000	4,000	2,000	4,000
50–59	4,000	S	2,000	4,000	1,000	4,000
60+	3,000	S	2,000	1,000	S	2,000
Other non-S&E occupations	36,000	13,000	9,000	31,000	14,000	26,000
<30	13,000	4,000	3,000	12,000	4,000	8,000
30–39	20,000	6,000	5,000	17,000	8,000	13,000
40–49	19,000	8,000	6,000	16,000	8,000	12,000
50–59	19,000	7,000	5,000	16,000	5,000	13,000
60+	10,000	2,000	2,000	7,000	3,000	7,000
Master's degrees, all occupations	47,000	24,000	23,000	39,000	20,000	28,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	13,000	9,000	8,000	9,000	4,000	9,000
30–39	24,000	12,000	13,000	19,000	10,000	14,000
40–49	27,000	14,000	13,000	22,000	10,000	16,000
50–59	24,000	12,000	13,000	20,000	8,000	14,000
60+	16,000	7,000	7,000	14,000	5,000	10,000
S&E occupations	20,000	14,000	6,000	16,000	12,000	9,000
<30	7,000	6,000	2,000	4,000	4,000	3,000
30–39	10,000	7,000	3,000	8,000	7,000	6,000
40–49	13,000	9,000	2,000	10,000	6,000	6,000
50–59	9,000	6,000	4,000	8,000	5,000	4,000
60+	6,000	4,000	2,000	4,000	2,000	2,000
Scientists	18,000	12,000	6,000	13,000	11,000	8,000
<30	7,000	5,000	2,000	4,000	4,000	2,000
30–39	9,000	6,000	3,000	7,000	6,000	5,000
40–49	10,000	7,000	2,000	7,000	6,000	5,000
50–59	8,000	4,000	4,000	6,000	5,000	4,000
60+	4,000	3,000	2,000	3,000	2,000	2,000
Biological/agricultural/other life scientists	5,000	4,000	2,000	4,000	1,000	3,000
<30	2,000	2,000	1,000	1,000	1,000	500
30–39	3,000	2,000	1,000	2,000	1,000	2,000
40–49	3,000	3,000	1,000	2,000	500	1,000
50–59	2,000	2,000	1,000	2,000	500	1,000
60+	1,000	500	500	1,000	S	1,000
Agricultural/food scientists	2,000	2,000	S	2,000	500	1,000
<30	500	500	S	500	S	S
30–39	1,000	1,000	S	S	S	S
40–49	2,000	2,000	S	1,000	S	S
50–59	1,000	1,000	S	1,000	S	1,000
60+	S	S	S	S	S	S
Biological/medical scientists	4,000	3,000	1,000	3,000	1,000	2,000
<30	1,000	1,000	S	500	1,000	500
30–39	2,000	2,000	S	2,000	500	2,000
40–49	2,000	2,000	S	2,000	500	1,000
50–59	1,000	1,000	S	1,000	S	1,000
60+	1,000	500	S	S	S	S
Environmental life scientists	2,000	1,000	S	2,000	1,000	1,000
<30	500	*	S	*	S	S
30–39	1,000	500	S	1,000	S	S
40–49	500	500	S	500	S	S
50–59	1,000	1,000	S	1,000	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	2,000	1,000	2,000	1,000	S	500
<30	1,000	500	1,000	S	S	S
30–39	1,000	500	1,000	*	S	500
40–49	1,000	500	1,000	1,000	S	S
50–59	1,000	S	1,000	500	S	S
60+	500	S	500	S	S	S
Computer/mathematical scientists	14,000	9,000	4,000	11,000	11,000	4,000
<30	5,000	3,000	1,000	4,000	4,000	1,000
30–39	7,000	5,000	2,000	6,000	6,000	2,000
40–49	7,000	5,000	1,000	6,000	5,000	2,000
50–59	6,000	3,000	3,000	5,000	5,000	2,000
60+	3,000	2,000	1,000	2,000	2,000	1,000
Computer/information scientists	13,000	9,000	2,000	11,000	10,000	3,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	5,000	3,000	S	4,000	3,000	1,000
30–39	7,000	5,000	500	5,000	6,000	2,000
40–49	7,000	5,000	1,000	5,000	5,000	2,000
50–59	5,000	3,000	2,000	4,000	5,000	2,000
60+	3,000	2,000	1,000	2,000	2,000	S
Mathematical scientists	3,000	2,000	1,000	2,000	2,000	1,000
<30	1,000	500	S	500	500	S
30–39	2,000	2,000	S	1,000	1,000	1,000
40–49	2,000	1,000	S	1,000	500	1,000
50–59	1,000	1,000	S	1,000	1,000	S
60+	1,000	1,000	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	3,000	1,000	3,000	1,000	1,000	2,000
<30	500	500	500	*	500	S
30–39	2,000	1,000	2,000	500	500	S
40–49	1,000	500	1,000	500	500	S
50–59	2,000	1,000	2,000	1,000	1,000	S
60+	1,000	500	1,000	500	S	500
Physical/related scientists	5,000	4,000	2,000	3,000	2,000	2,000
<30	1,000	1,000	1,000	500	1,000	500
30–39	3,000	1,000	1,000	2,000	1,000	1,000
40–49	3,000	3,000	1,000	2,000	1,000	1,000
50–59	2,000	1,000	1,000	1,000	1,000	1,000
60+	2,000	1,000	1,000	1,000	S	1,000
Chemists, except biochemists	3,000	2,000	S	2,000	500	1,000
<30	500	500	S	*	S	*
30–39	2,000	1,000	S	1,000	S	1,000
40–49	1,000	1,000	S	1,000	S	500
50–59	1,000	1,000	S	1,000	S	1,000
60+	1,000	1,000	S	S	S	1,000
Earth/atmospheric/ocean scientists	3,000	3,000	S	1,000	2,000	1,000
<30	500	500	S	*	*	*
30–39	1,000	1,000	S	1,000	1,000	1,000
40–49	3,000	3,000	S	1,000	1,000	1,000
50–59	1,000	1,000	S	1,000	500	500
60+	1,000	1,000	S	S	S	1,000
Physicists/astronomers	1,000	1,000	*	1,000	1,000	1,000
<30	500	500	S	S	*	S
30–39	1,000	500	S	1,000	500	*
40–49	500	500	S	S	S	S
50–59	1,000	1,000	S	S	S	S
60+	500	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	2,000	1,000	2,000	1,000	500	500
<30	1,000	1,000	1,000	*	S	S
30–39	1,000	500	1,000	1,000	S	S
40–49	1,000	S	1,000	S	S	S
50–59	1,000	S	1,000	500	S	S
60+	1,000	S	1,000	S	S	S
Other physical/related scientists	1,000	1,000	S	1,000	1,000	1,000
<30	1,000	1,000	S	S	S	S
30–39	1,000	1,000	S	1,000	S	S
40–49	1,000	500	S	1,000	S	1,000
50–59	500	500	S	S	S	S

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
60+	1,000	S	S	S	S	S
Social/related scientists	10,000	6,000	4,000	7,000	2,000	7,000
<30	4,000	3,000	2,000	2,000	500	2,000
30–39	5,000	3,000	2,000	4,000	1,000	4,000
40–49	6,000	3,000	1,000	4,000	1,000	4,000
50–59	4,000	2,000	2,000	3,000	1,000	3,000
60+	2,000	1,000	1,000	1,000	S	1,000
Economists	3,000	2,000	S	2,000	500	1,000
<30	1,000	1,000	S	500	S	S
30–39	2,000	1,000	S	2,000	500	1,000
40–49	2,000	1,000	S	1,000	S	S
50–59	1,000	1,000	S	1,000	S	S
60+	S	S	S	S	S	S
Political/related scientists	1,000	1,000	S	1,000	S	1,000
<30	500	500	S	S	S	S
30–39	1,000	500	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	2,000	2,000	2,000	1,000	1,000	1,000
<30	1,000	1,000	1,000	500	S	S
30–39	1,000	1,000	1,000	*	S	500
40–49	1,000	1,000	1,000	S	S	1,000
50–59	1,000	1,000	1,000	1,000	S	500
60+	1,000	1,000	1,000	500	S	500
Psychologists	6,000	3,000	3,000	4,000	1,000	5,000
<30	2,000	2,000	1,000	1,000	S	1,000
30–39	4,000	2,000	2,000	2,000	500	4,000
40–49	3,000	1,000	1,000	2,000	S	3,000
50–59	3,000	1,000	1,000	2,000	S	2,000
60+	1,000	500	S	1,000	S	1,000
Sociologists/anthropologists	2,000	1,000	S	1,000	S	1,000
<30	500	500	S	S	S	S
30–39	1,000	1,000	S	1,000	S	S
40–49	1,000	1,000	S	500	S	1,000
50–59	500	500	S	500	S	S
60+	S	S	S	S	S	S
Other social/related scientists	6,000	4,000	S	5,000	1,000	3,000
<30	2,000	2,000	S	2,000	S	1,000
30–39	2,000	1,000	S	2,000	S	1,000
40–49	4,000	2,000	S	3,000	S	3,000
50–59	2,000	1,000	S	2,000	S	1,000
60+	1,000	1,000	S	1,000	S	S
Engineers	9,000	8,000	1,000	8,000	3,000	4,000
<30	3,000	2,000	500	1,000	1,000	1,000
30–39	5,000	4,000	1,000	3,000	2,000	2,000
40–49	7,000	5,000	1,000	5,000	2,000	3,000
50–59	5,000	4,000	1,000	5,000	2,000	2,000
60+	4,000	3,000	1,000	3,000	1,000	1,000
Aerospace/aeronautical/astronautical engineers	4,000	3,000	S	3,000	1,000	2,000
<30	1,000	1,000	S	*	500	S
30–39	1,000	1,000	S	1,000	500	500
40–49	2,000	1,000	S	1,000	1,000	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	1,000	1,000	S	1,000	500	S
60+	2,000	2,000	S	2,000	S	S
Chemical engineers	2,000	2,000	S	1,000	1,000	1,000
<30	1,000	1,000	S	500	*	500
30–39	1,000	1,000	S	1,000	500	500
40–49	1,000	1,000	S	1,000	S	1,000
50–59	1,000	1,000	S	1,000	500	1,000
60+	1,000	500	S	S	S	S
Civil/architectural/sanitary engineers	3,000	3,000	S	3,000	1,000	2,000
<30	1,000	1,000	S	1,000	500	1,000
30–39	2,000	2,000	S	2,000	1,000	1,000
40–49	2,000	1,000	S	2,000	500	1,000
50–59	2,000	1,000	S	1,000	500	1,000
60+	1,000	1,000	S	1,000	500	1,000
Electrical/computer hardware engineers	5,000	4,000	500	4,000	2,000	2,000
<30	1,000	1,000	S	1,000	1,000	500
30–39	2,000	2,000	S	2,000	1,000	1,000
40–49	3,000	2,000	S	2,000	1,000	1,000
50–59	3,000	3,000	S	3,000	1,000	1,000
60+	1,000	1,000	S	1,000	500	500
Industrial engineers	3,000	2,000	S	2,000	1,000	1,000
<30	500	500	S	500	500	500
30–39	2,000	2,000	S	2,000	S	500
40–49	1,000	1,000	S	1,000	S	500
50–59	1,000	1,000	S	1,000	S	500
60+	1,000	1,000	S	S	S	S
Mechanical engineers	4,000	4,000	500	3,000	1,000	1,000
<30	1,000	1,000	S	1,000	500	500
30–39	2,000	2,000	S	1,000	1,000	500
40–49	2,000	2,000	S	2,000	1,000	1,000
50–59	3,000	3,000	S	3,000	500	1,000
60+	1,000	1,000	S	1,000	S	500
Postsecondary teachers-engineering	1,000	1,000	1,000	500	500	S
<30	500	500	500	S	S	S
30–39	1,000	1,000	1,000	S	S	S
40–49	500	500	500	S	S	S
50–59	500	S	500	S	S	S
60+	1,000	S	1,000	S	S	S
Other engineers	6,000	5,000	500	5,000	1,000	3,000
<30	1,000	1,000	S	500	500	500
30–39	2,000	2,000	S	2,000	1,000	1,000
40–49	4,000	4,000	S	4,000	1,000	2,000
50–59	3,000	2,000	S	3,000	1,000	1,000
60+	2,000	1,000	S	1,000	1,000	500
S&E-related occupations	23,000	12,000	16,000	17,000	8,000	16,000
<30	8,000	4,000	5,000	4,000	2,000	6,000
30–39	11,000	7,000	8,000	8,000	5,000	7,000
40–49	14,000	6,000	9,000	10,000	5,000	11,000
50–59	12,000	6,000	9,000	8,000	4,000	8,000
60+	7,000	3,000	5,000	5,000	2,000	4,000
Health-related occupations	16,000	7,000	11,000	11,000	5,000	15,000
<30	6,000	3,000	3,000	3,000	1,000	6,000
30–39	8,000	4,000	5,000	5,000	2,000	7,000
40–49	10,000	4,000	6,000	7,000	3,000	10,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	8,000	3,000	5,000	7,000	2,000	7,000
60+	4,000	1,000	2,000	3,000	1,000	3,000
S&E managers	7,000	3,000	S	7,000	3,000	3,000
<30	500	500	S	500	S	S
30–39	3,000	2,000	S	3,000	2,000	1,000
40–49	4,000	1,000	S	4,000	2,000	2,000
50–59	4,000	2,000	S	4,000	2,000	2,000
60+	4,000	S	S	3,000	S	3,000
S&E precollege teachers	12,000	5,000	12,000	9,000	5,000	3,000
<30	5,000	2,000	5,000	3,000	1,000	1,000
30–39	7,000	3,000	7,000	5,000	2,000	1,000
40–49	7,000	2,000	7,000	4,000	3,000	2,000
50–59	7,000	2,000	7,000	4,000	3,000	2,000
60+	4,000	2,000	4,000	2,000	1,000	1,000
S&E technicians/technologists	6,000	4,000	S	4,000	5,000	2,000
<30	2,000	1,000	S	1,000	2,000	1,000
30–39	3,000	3,000	S	2,000	3,000	1,000
40–49	4,000	2,000	S	3,000	2,000	2,000
50–59	2,000	2,000	S	1,000	2,000	1,000
60+	1,000	1,000	S	1,000	1,000	S
Other S&E-related occupations	5,000	4,000	S	5,000	2,000	4,000
<30	2,000	1,000	S	1,000	S	S
30–39	2,000	2,000	S	2,000	1,000	1,000
40–49	3,000	3,000	S	3,000	S	2,000
50–59	2,000	2,000	S	2,000	S	1,000
60+	3,000	1,000	S	2,000	S	3,000
Non-S&E occupations	38,000	18,000	17,000	34,000	12,000	22,000
<30	9,000	5,000	6,000	7,000	1,000	5,000
30–39	19,000	9,000	9,000	17,000	5,000	11,000
40–49	20,000	9,000	10,000	17,000	5,000	11,000
50–59	19,000	8,000	9,000	17,000	5,000	11,000
60+	13,000	5,000	5,000	11,000	4,000	8,000
Art/humanities/related occupations	8,000	5,000	1,000	7,000	2,000	6,000
<30	1,000	S	S	500	S	1,000
30–39	5,000	3,000	S	5,000	2,000	3,000
40–49	4,000	3,000	S	3,000	1,000	3,000
50–59	4,000	3,000	S	2,000	S	3,000
60+	2,000	1,000	S	2,000	S	2,000
Management-related occupations	16,000	8,000	3,000	15,000	6,000	9,000
<30	3,000	2,000	S	3,000	1,000	1,000
30–39	8,000	5,000	1,000	7,000	2,000	5,000
40–49	9,000	5,000	1,000	9,000	4,000	5,000
50–59	10,000	4,000	2,000	9,000	3,000	5,000
60+	6,000	2,000	S	6,000	3,000	4,000
Non-S&E managers	13,000	6,000	2,000	13,000	3,000	6,000
<30	2,000	S	S	2,000	S	S
30–39	6,000	2,000	S	6,000	1,000	3,000
40–49	9,000	4,000	1,000	8,000	1,000	3,000
50–59	8,000	3,000	1,000	8,000	2,000	4,000
60+	4,000	2,000	S	4,000	1,000	1,000
Non-S&E postsecondary teachers	6,000	3,000	6,000	3,000	2,000	2,000
<30	3,000	3,000	3,000	500	S	1,000
30–39	2,000	1,000	2,000	1,000	1,000	1,000
40–49	3,000	2,000	3,000	2,000	1,000	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	3,000	1,000	3,000	1,000	2,000	1,000
60+	1,000	500	1,000	1,000	S	1,000
Non-S&E precollege/other teachers	14,000	6,000	14,000	8,000	3,000	5,000
<30	4,000	3,000	4,000	2,000	S	1,000
30–39	7,000	2,000	7,000	4,000	1,000	2,000
40–49	8,000	2,000	8,000	6,000	1,000	2,000
50–59	7,000	2,000	7,000	4,000	1,000	3,000
60+	4,000	1,000	3,000	2,000	1,000	2,000
Sales/marketing occupations	16,000	7,000	2,000	15,000	4,000	6,000
<30	4,000	1,000	S	3,000	S	1,000
30–39	9,000	5,000	1,000	9,000	2,000	2,000
40–49	7,000	2,000	S	7,000	2,000	3,000
50–59	8,000	2,000	S	8,000	2,000	4,000
60+	6,000	2,000	S	6,000	2,000	3,000
Social services/related occupations	12,000	4,000	6,000	9,000	3,000	11,000
<30	4,000	1,000	2,000	4,000	1,000	4,000
30–39	7,000	2,000	4,000	5,000	2,000	7,000
40–49	6,000	2,000	4,000	4,000	1,000	6,000
50–59	6,000	2,000	3,000	5,000	1,000	6,000
60+	3,000	1,000	1,000	2,000	S	3,000
Other non-S&E occupations	18,000	7,000	7,000	15,000	5,000	12,000
<30	3,000	1,000	2,000	3,000	1,000	2,000
30–39	10,000	4,000	4,000	8,000	2,000	7,000
40–49	8,000	4,000	3,000	7,000	3,000	6,000
50–59	9,000	3,000	3,000	8,000	2,000	7,000
60+	7,000	2,000	2,000	7,000	2,000	5,000
Doctorate degrees, all occupations	11,000	8,000	6,000	8,000	3,000	5,000
<30	3,000	3,000	2,000	1,000	500	1,000
30–39	5,000	3,000	3,000	4,000	2,000	2,000
40–49	5,000	4,000	2,000	4,000	1,000	2,000
50–59	6,000	5,000	4,000	4,000	1,000	3,000
60+	4,000	3,000	3,000	3,000	1,000	2,000
S&E occupations	5,000	5,000	4,000	3,000	2,000	2,000
<30	3,000	3,000	2,000	500	500	500
30–39	3,000	3,000	1,000	1,000	1,000	1,000
40–49	3,000	3,000	1,000	2,000	1,000	1,000
50–59	3,000	2,000	1,000	2,000	1,000	1,000
60+	2,000	1,000	2,000	1,000	1,000	1,000
Scientists	5,000	5,000	4,000	2,000	1,000	2,000
<30	3,000	3,000	2,000	500	500	500
30–39	3,000	3,000	1,000	1,000	1,000	1,000
40–49	2,000	2,000	1,000	1,000	1,000	1,000
50–59	2,000	2,000	1,000	1,000	1,000	1,000
60+	2,000	1,000	2,000	1,000	500	1,000
Biological/agricultural/other life scientists	3,000	3,000	1,000	1,000	500	1,000
<30	2,000	2,000	*	500	*	S
30–39	2,000	2,000	1,000	1,000	500	500
40–49	2,000	1,000	1,000	1,000	500	1,000
50–59	1,000	1,000	1,000	1,000	500	1,000
60+	1,000	1,000	1,000	500	*	500
Agricultural/food scientists	500	500	*	500	500	500
<30	*	*	S	S	S	S
30–39	500	500	*	500	S	*
40–49	500	500	S	500	*	500

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	500	500	S	500	*	*
60+	500	500	S	500	S	*
Biological/medical scientists	3,000	3,000	1,000	1,000	500	1,000
<30	2,000	2,000	S	500	*	S
30–39	2,000	2,000	1,000	1,000	500	500
40–49	1,000	1,000	500	1,000	500	500
50–59	1,000	1,000	500	1,000	500	1,000
60+	1,000	1,000	*	500	*	500
Environmental life scientists	500	500	S	500	*	*
<30	S	S	S	S	S	S
30–39	*	*	S	S	S	S
40–49	500	500	S	*	S	S
50–59	500	500	S	*	S	S
60+	*	S	S	S	S	S
Postsecondary teachers-life/related sciences	1,000	1,000	1,000	1,000	*	500
<30	*	S	*	S	S	S
30–39	1,000	1,000	500	500	S	*
40–49	1,000	1,000	1,000	500	S	*
50–59	1,000	1,000	1,000	500	S	500
60+	1,000	500	1,000	500	S	500
Computer/mathematical scientists	3,000	3,000	2,000	1,000	1,000	1,000
<30	2,000	2,000	2,000	*	500	S
30–39	1,000	1,000	1,000	500	1,000	500
40–49	1,000	1,000	1,000	1,000	1,000	500
50–59	1,000	1,000	1,000	1,000	1,000	1,000
60+	1,000	1,000	1,000	500	500	500
Computer/information scientists	2,000	2,000	500	1,000	1,000	1,000
<30	*	*	S	S	*	S
30–39	1,000	1,000	S	500	1,000	500
40–49	1,000	1,000	*	1,000	1,000	500
50–59	1,000	1,000	S	1,000	1,000	500
60+	500	500	*	500	500	*
Mathematical scientists	1,000	1,000	500	500	500	500
<30	*	*	S	S	S	S
30–39	500	500	S	*	500	*
40–49	500	500	*	500	500	*
50–59	500	500	*	500	500	*
60+	500	500	S	*	500	*
Postsecondary teachers-computer/ mathematical sciences	2,000	2,000	2,000	500	500	500
<30	2,000	2,000	2,000	S	S	S
30–39	1,000	1,000	1,000	500	*	*
40–49	1,000	1,000	1,000	500	*	*
50–59	1,000	500	1,000	500	500	*
60+	1,000	500	1,000	500	500	500
Physical/related scientists	2,000	2,000	1,000	1,000	500	1,000
<30	500	500	*	*	*	*
30–39	1,000	1,000	500	500	500	500
40–49	1,000	1,000	1,000	1,000	500	500
50–59	1,000	1,000	500	1,000	500	500
60+	1,000	1,000	500	500	500	500
Chemists, except biochemists	1,000	1,000	*	1,000	500	500
<30	500	500	S	*	S	*
30–39	1,000	1,000	S	500	*	500

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40–49	1,000	1,000	*	500	*	500
50–59	1,000	1,000	S	500	*	500
60+	500	500	*	500	*	500
Earth/atmospheric/ocean scientists	1,000	500	*	500	500	500
<30	S	S	S	S	S	S
30–39	500	500	*	500	500	*
40–49	500	500	S	500	500	*
50–59	500	500	S	500	500	500
60+	500	500	*	*	S	*
Physicists/astronomers	1,000	1,000	500	500	500	500
<30	*	*	S	S	S	S
30–39	500	500	*	500	500	*
40–49	500	500	*	500	500	*
50–59	500	500	S	500	500	*
60+	500	500	*	500	*	*
Postsecondary teachers-physical/ related sciences	1,000	1,000	1,000	500	500	500
<30	*	*	*	S	S	S
30–39	1,000	500	500	500	*	*
40–49	1,000	1,000	1,000	500	*	500
50–59	500	500	500	500	*	*
60+	500	500	500	500	*	500
Other physical/related scientists	1,000	1,000	S	1,000	*	500
<30	S	S	S	S	S	S
30–39	500	500	S	*	S	*
40–49	500	500	S	500	S	*
50–59	500	500	S	500	S	*
60+	*	*	S	S	S	S
Social/related scientists	2,000	2,000	2,000	1,000	500	1,000
<30	500	500	*	500	S	*
30–39	1,000	1,000	1,000	1,000	500	1,000
40–49	1,000	1,000	1,000	1,000	500	1,000
50–59	1,000	1,000	1,000	1,000	500	1,000
60+	1,000	1,000	1,000	1,000	500	1,000
Economists	500	500	*	500	500	500
<30	S	S	S	S	S	S
30–39	500	500	*	500	*	*
40–49	500	500	S	500	*	500
50–59	500	500	S	500	S	500
60+	500	500	S	*	S	*
Political/related scientists	500	500	*	500	S	*
<30	S	S	S	S	S	S
30–39	*	*	S	*	S	S
40–49	*	*	S	*	S	S
50–59	*	*	S	*	S	*
60+	500	*	S	*	S	*
Postsecondary teachers-social/ related sciences	2,000	2,000	2,000	1,000	500	1,000
<30	500	*	*	S	S	S
30–39	1,000	1,000	1,000	500	S	500
40–49	1,000	1,000	1,000	500	*	500
50–59	1,000	1,000	1,000	500	*	500
60+	1,000	1,000	1,000	500	*	500
Psychologists	1,000	1,000	500	1,000	500	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	500	500	S	*	S	*
30–39	500	500	500	500	*	500
40–49	1,000	500	500	500	*	1,000
50–59	1,000	500	500	1,000	*	1,000
60+	1,000	500	500	1,000	*	1,000
Sociologists/anthropologists	1,000	1,000	*	500	*	500
<30	S	S	S	S	S	S
30–39	1,000	1,000	S	*	S	S
40–49	500	500	*	500	S	*
50–59	500	500	S	500	S	*
60+	500	*	S	*	S	*
Other social/related scientists	1,000	1,000	*	500	*	500
<30	S	S	S	S	S	S
30–39	500	500	S	500	*	*
40–49	500	500	S	500	S	*
50–59	500	500	S	500	S	*
60+	500	500	S	*	S	*
Engineers	2,000	2,000	1,000	1,000	1,000	1,000
<30	500	500	*	*	500	S
30–39	1,000	1,000	500	500	500	500
40–49	1,000	1,000	500	1,000	500	500
50–59	1,000	1,000	500	1,000	500	500
60+	1,000	1,000	500	500	500	500
Aerospace/aeronautical/astronautical engineers	1,000	1,000	S	500	500	*
<30	S	S	S	S	S	S
30–39	500	500	S	*	*	S
40–49	500	500	S	*	*	S
50–59	500	500	S	*	*	S
60+	500	500	S	*	*	S
Chemical engineers	1,000	1,000	S	500	500	500
<30	*	*	S	*	S	S
30–39	500	500	S	500	*	*
40–49	500	500	S	500	*	500
50–59	500	500	S	*	*	*
60+	500	500	S	*	S	S
Civil/architectural/sanitary engineers	500	500	S	500	500	500
<30	S	S	S	S	S	S
30–39	500	500	S	*	*	*
40–49	500	500	S	500	*	*
50–59	500	500	S	500	*	*
60+	500	500	S	500	S	*
Electrical/computer hardware engineers	1,000	1,000	*	500	500	500
<30	500	500	S	S	*	S
30–39	500	500	S	500	500	*
40–49	500	500	S	500	500	500
50–59	500	500	S	500	500	*
60+	500	500	S	500	*	*
Industrial engineers	1,000	1,000	S	500	*	*
<30	S	S	S	S	S	S
30–39	*	*	S	*	S	S
40–49	1,000	1,000	S	*	*	S
50–59	*	*	S	*	S	S
60+	*	S	S	S	S	S
Mechanical engineers	500	500	*	500	500	500

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	*	*	S	S	S	S
30–39	500	500	S	500	500	*
40–49	500	500	S	500	500	*
50–59	500	500	S	500	*	*
60+	500	500	*	*	*	S
Postsecondary teachers-engineering	1,000	1,000	1,000	500	500	500
<30	*	S	*	S	S	S
30–39	500	500	500	500	S	S
40–49	500	500	500	500	*	*
50–59	500	500	500	500	*	*
60+	500	500	500	500	*	*
Other engineers	1,000	1,000	*	500	500	500
<30	500	500	S	S	S	S
30–39	1,000	1,000	S	500	500	500
40–49	1,000	1,000	S	500	500	500
50–59	500	500	S	500	500	500
60+	500	500	S	500	*	500
S&E-related occupations	5,000	3,000	3,000	3,000	2,000	3,000
<30	1,000	*	*	1,000	S	1,000
30–39	3,000	1,000	2,000	1,000	2,000	1,000
40–49	2,000	1,000	1,000	2,000	500	2,000
50–59	3,000	2,000	2,000	1,000	1,000	2,000
60+	2,000	2,000	1,000	2,000	500	1,000
Health-related occupations	3,000	2,000	2,000	2,000	1,000	3,000
<30	1,000	*	*	1,000	S	1,000
30–39	1,000	1,000	1,000	1,000	*	1,000
40–49	2,000	1,000	1,000	2,000	*	2,000
50–59	2,000	2,000	1,000	1,000	500	2,000
60+	1,000	500	1,000	1,000	*	1,000
S&E managers	1,000	1,000	*	1,000	500	500
<30	S	S	S	S	S	S
30–39	500	500	S	500	*	*
40–49	500	500	S	500	*	500
50–59	1,000	500	S	1,000	*	500
60+	1,000	500	S	1,000	S	1,000
S&E precollege teachers	3,000	1,000	3,000	500	2,000	1,000
<30	S	S	S	S	S	S
30–39	2,000	*	2,000	*	S	S
40–49	1,000	500	1,000	500	S	S
50–59	1,000	1,000	1,000	500	S	S
60+	500	S	500	*	S	S
S&E technicians/technologists	1,000	1,000	*	500	500	500
<30	S	S	S	S	S	S
30–39	1,000	1,000	S	500	500	*
40–49	500	500	S	500	500	S
50–59	500	500	S	*	500	S
60+	500	500	S	S	*	S
Other S&E-related occupations	2,000	1,000	S	1,000	S	*
<30	S	S	S	S	S	S
30–39	500	500	S	S	S	S
40–49	*	S	S	S	S	S
50–59	*	S	S	S	S	S
60+	S	S	S	S	S	S
Non-S&E occupations	8,000	5,000	4,000	7,000	1,000	4,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	*	*	S	*	S	*
30–39	4,000	1,000	1,000	3,000	500	1,000
40–49	4,000	3,000	1,000	4,000	1,000	1,000
50–59	5,000	4,000	3,000	4,000	500	2,000
60+	3,000	1,000	2,000	3,000	500	2,000
Art/humanities/related occupations	1,000	1,000	*	1,000	500	1,000
<30	S	S	S	S	S	S
30–39	500	500	S	500	S	500
40–49	1,000	500	S	1,000	*	1,000
50–59	1,000	1,000	*	500	S	1,000
60+	500	500	S	500	S	500
Management-related occupations	4,000	2,000	1,000	3,000	500	1,000
<30	*	S	S	S	S	S
30–39	3,000	1,000	*	3,000	500	500
40–49	1,000	500	1,000	1,000	*	500
50–59	2,000	1,000	*	2,000	500	1,000
60+	1,000	1,000	500	1,000	*	1,000
Non-S&E managers	4,000	2,000	1,000	4,000	1,000	2,000
<30	S	S	S	S	S	S
30–39	1,000	500	S	1,000	*	1,000
40–49	2,000	1,000	*	1,000	1,000	500
50–59	3,000	1,000	1,000	3,000	*	1,000
60+	2,000	1,000	1,000	2,000	*	1,000
Non-S&E postsecondary teachers	3,000	2,000	3,000	2,000	500	1,000
<30	S	S	S	S	S	S
30–39	1,000	1,000	1,000	500	S	*
40–49	1,000	1,000	1,000	1,000	*	500
50–59	2,000	2,000	2,000	1,000	*	500
60+	1,000	1,000	1,000	1,000	S	1,000
Non-S&E precollege/other teachers	2,000	2,000	2,000	1,000	S	1,000
<30	S	S	S	S	S	S
30–39	500	S	500	*	S	S
40–49	500	S	500	*	S	S
50–59	2,000	2,000	2,000	1,000	S	500
60+	500	S	500	S	S	*
Sales/marketing occupations	3,000	2,000	1,000	3,000	500	500
<30	S	S	S	S	S	S
30–39	500	500	S	500	*	*
40–49	3,000	2,000	S	3,000	S	*
50–59	1,000	500	S	1,000	*	500
60+	1,000	500	S	1,000	*	*
Social services/related occupations	2,000	1,000	2,000	1,000	*	2,000
<30	S	S	S	S	S	S
30–39	500	*	S	*	S	500
40–49	500	*	500	500	S	500
50–59	1,000	*	1,000	1,000	S	1,000
60+	1,000	1,000	1,000	500	S	1,000
Other non-S&E occupations	2,000	1,000	1,000	2,000	500	2,000
<30	S	S	S	S	S	S
30–39	1,000	500	*	1,000	S	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40–49	1,000	1,000	*	1,000	*	500
50–59	1,000	1,000	*	1,000	S	1,000
60+	2,000	500	1,000	1,000	500	1,000

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
All degree levels and occupations[a]	82,000	32,000	43,000	38,000	39,000	35,000	31,000	27,000	22,000
Male	60,000	21,000	33,000	28,000	28,000	25,000	24,000	22,000	17,000
Female	56,000	23,000	29,000	28,000	28,000	25,000	21,000	16,000	14,000
S&E occupations	39,000	17,000	19,000	16,000	17,000	12,000	11,000	8,000	8,000
Male	30,000	12,000	16,000	14,000	14,000	11,000	9,000	8,000	7,000
Female	21,000	10,000	10,000	8,000	8,000	7,000	6,000	3,000	3,000
Scientists	34,000	16,000	15,000	15,000	14,000	10,000	9,000	7,000	6,000
Male	25,000	11,000	13,000	12,000	11,000	9,000	7,000	7,000	5,000
Female	20,000	10,000	9,000	7,000	8,000	7,000	6,000	3,000	2,000
Biological/agricultural/other life scientists	10,000	5,000	5,000	3,000	4,000	5,000	3,000	3,000	2,000
Male	8,000	4,000	3,000	2,000	4,000	4,000	3,000	3,000	2,000
Female	7,000	4,000	4,000	2,000	2,000	2,000	2,000	1,000	1,000
Agricultural/food scientists	4,000	1,000	2,000	1,000	2,000	2,000	2,000	1,000	1,000
Male	3,000	1,000	1,000	500	2,000	1,000	2,000	1,000	1,000
Female	2,000	1,000	2,000	500	1,000	1,000	500	1,000	S
Biological/medical scientists	9,000	5,000	4,000	3,000	3,000	4,000	2,000	2,000	2,000
Male	6,000	4,000	2,000	2,000	2,000	4,000	1,000	2,000	1,000
Female	6,000	4,000	3,000	2,000	2,000	2,000	2,000	1,000	1,000
Environmental life scientists	4,000	1,000	1,000	1,000	2,000	2,000	2,000	2,000	1,000
Male	4,000	1,000	1,000	1,000	2,000	2,000	2,000	2,000	1,000
Female	1,000	500	500	500	1,000	*	S	S	S
Postsecondary teachers-life/related sciences	3,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000	500
Male	2,000	1,000	500	1,000	1,000	500	1,000	500	500
Female	2,000	1,000	1,000	500	500	500	500	500	*
Computer/mathematical scientists	27,000	11,000	13,000	13,000	12,000	9,000	8,000	5,000	4,000
Male	23,000	9,000	12,000	11,000	9,000	7,000	6,000	5,000	4,000
Female	15,000	7,000	7,000	6,000	7,000	6,000	5,000	3,000	2,000
Computer/information scientists	26,000	11,000	13,000	12,000	11,000	8,000	7,000	5,000	4,000
Male	23,000	9,000	12,000	11,000	9,000	6,000	5,000	4,000	4,000
Female	15,000	7,000	7,000	6,000	6,000	6,000	4,000	2,000	2,000
Mathematical scientists	6,000	1,000	2,000	2,000	2,000	1,000	3,000	2,000	1,000
Male	4,000	1,000	1,000	2,000	1,000	1,000	3,000	1,000	1,000
Female	3,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	500
Postsecondary teachers-computer/ mathematical sciences	4,000	2,000	2,000	2,000	1,000	2,000	2,000	1,000	1,000
Male	3,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Female	3,000	2,000	1,000	1,000	1,000	1,000	1,000	500	500
Physical/related scientists	9,000	5,000	4,000	4,000	3,000	4,000	2,000	2,000	2,000
Male	7,000	2,000	3,000	3,000	3,000	4,000	2,000	2,000	2,000
Female	6,000	4,000	2,000	2,000	1,000	1,000	1,000	500	500
Chemists, except biochemists	6,000	4,000	2,000	2,000	2,000	2,000	2,000	1,000	1,000
Male	4,000	1,000	2,000	1,000	1,000	2,000	1,000	1,000	1,000
Female	5,000	4,000	2,000	1,000	1,000	1,000	1,000	500	500
Earth/atmospheric/ocean scientists	5,000	1,000	2,000	3,000	2,000	1,000	1,000	1,000	1,000
Male	4,000	1,000	2,000	3,000	2,000	1,000	1,000	1,000	1,000
Female	2,000	1,000	500	1,000	1,000	500	500	S	S

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Physicists/astronomers	2,000	1,000	1,000	500	500	1,000	500	1,000	1,000
Male	2,000	1,000	1,000	500	500	1,000	500	1,000	1,000
Female	500	500	500	*	500	*	S	S	S
Postsecondary teachers-physical/related scientists	3,000	1,000	2,000	1,000	1,000	500	1,000	500	1,000
Male	2,000	1,000	1,000	1,000	1,000	500	1,000	500	1,000
Female	2,000	1,000	1,000	500	500	500	*	500	*
Other physical/related scientists	4,000	2,000	2,000	1,000	1,000	3,000	1,000	1,000	500
Male	3,000	1,000	1,000	1,000	1,000	2,000	1,000	1,000	500
Female	2,000	1,000	1,000	1,000	500	1,000	1,000	S	S
Social/related scientists	14,000	7,000	6,000	5,000	4,000	4,000	3,000	3,000	2,000
Male	9,000	4,000	4,000	4,000	2,000	3,000	2,000	3,000	2,000
Female	10,000	5,000	4,000	3,000	3,000	3,000	3,000	1,000	1,000
Economists	3,000	1,000	1,000	2,000	500	2,000	1,000	1,000	1,000
Male	3,000	1,000	1,000	1,000	500	2,000	500	1,000	1,000
Female	2,000	1,000	1,000	1,000	500	*	500	S	S
Political/related scientists	2,000	1,000	1,000	1,000	1,000	1,000	*	1,000	*
Male	2,000	1,000	500	S	1,000	1,000	*	1,000	*
Female	2,000	1,000	1,000	1,000	S	S	S	S	S
Postsecondary teachers-social/related sciences	4,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
Male	3,000	2,000	1,000	1,000	500	1,000	1,000	1,000	1,000
Female	3,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	500
Psychologists	6,000	4,000	3,000	2,000	2,000	2,000	1,000	1,000	1,000
Male	3,000	2,000	1,000	1,000	1,000	2,000	1,000	1,000	500
Female	5,000	3,000	3,000	2,000	2,000	2,000	1,000	1,000	1,000
Sociologists/anthropologists	3,000	2,000	1,000	1,000	1,000	1,000	500	500	1,000
Male	2,000	1,000	1,000	1,000	1,000	*	500	*	S
Female	2,000	2,000	1,000	*	1,000	1,000	500	S	S
Other social/related scientists	9,000	4,000	5,000	3,000	3,000	2,000	3,000	2,000	2,000
Male	7,000	3,000	4,000	3,000	2,000	2,000	1,000	2,000	2,000
Female	6,000	3,000	3,000	2,000	2,000	1,000	2,000	1,000	1,000
Engineers	18,000	6,000	10,000	7,000	8,000	8,000	6,000	5,000	5,000
Male	18,000	5,000	10,000	6,000	8,000	8,000	5,000	5,000	5,000
Female	6,000	3,000	3,000	3,000	2,000	2,000	1,000	1,000	1,000
Aerospace/aeronautical/astronautical engineers	5,000	1,000	2,000	2,000	2,000	2,000	1,000	1,000	3,000
Male	5,000	1,000	2,000	1,000	2,000	2,000	1,000	1,000	3,000
Female	2,000	500	1,000	1,000	500	1,000	S	S	S
Chemical engineers	3,000	1,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000
Male	3,000	1,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000
Female	2,000	1,000	1,000	1,000	500	500	S	S	S
Civil/architectural/sanitary engineers	8,000	2,000	4,000	3,000	3,000	3,000	2,000	2,000	2,000
Male	8,000	2,000	4,000	3,000	3,000	3,000	2,000	2,000	2,000
Female	2,000	1,000	1,000	1,000	1,000	1,000	500	S	S
Electrical/computer hardware engineers	8,000	3,000	5,000	3,000	3,000	3,000	3,000	2,000	2,000
Male	7,000	3,000	5,000	3,000	3,000	3,000	3,000	2,000	2,000

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Female	4,000	1,000	2,000	2,000	1,000	1,000	*	*	S
Industrial engineers	5,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000
Male	5,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000
Female	1,000	500	1,000	500	500	500	S	S	S
Mechanical engineers	7,000	3,000	3,000	4,000	3,000	3,000	2,000	2,000	2,000
Male	7,000	3,000	3,000	3,000	2,000	3,000	2,000	2,000	2,000
Female	2,000	1,000	1,000	1,000	1,000	500	500	S	S
Postsecondary teachers-engineering	2,000	1,000	1,000	500	500	500	500	500	1,000
Male	2,000	1,000	1,000	500	500	500	500	500	1,000
Female	1,000	1,000	500	500	*	*	S	S	S
Other engineers	12,000	3,000	6,000	4,000	6,000	5,000	3,000	3,000	3,000
Male	12,000	3,000	6,000	4,000	6,000	5,000	3,000	3,000	3,000
Female	4,000	2,000	1,000	1,000	1,000	2,000	1,000	S	S
S&E-related occupations	48,000	21,000	25,000	22,000	19,000	19,000	17,000	14,000	12,000
Male	31,000	13,000	14,000	14,000	12,000	11,000	10,000	10,000	8,000
Female	33,000	16,000	18,000	18,000	16,000	16,000	14,000	9,000	7,000
Health-related occupations	32,000	18,000	20,000	18,000	16,000	16,000	15,000	10,000	9,000
Male	18,000	9,000	10,000	10,000	9,000	7,000	7,000	6,000	6,000
Female	27,000	14,000	17,000	16,000	13,000	14,000	12,000	7,000	6,000
S&E managers	14,000	3,000	6,000	6,000	5,000	6,000	5,000	4,000	4,000
Male	12,000	2,000	4,000	5,000	4,000	4,000	4,000	4,000	3,000
Female	8,000	2,000	3,000	3,000	3,000	4,000	3,000	1,000	2,000
S&E precollege teachers	21,000	8,000	10,000	8,000	8,000	6,000	6,000	6,000	5,000
Male	14,000	7,000	7,000	5,000	5,000	4,000	3,000	5,000	4,000
Female	14,000	7,000	7,000	7,000	6,000	5,000	5,000	4,000	4,000
S&E technicians/technologists	15,000	6,000	7,000	5,000	6,000	6,000	4,000	4,000	2,000
Male	13,000	5,000	6,000	4,000	6,000	5,000	4,000	4,000	2,000
Female	7,000	3,000	4,000	3,000	3,000	3,000	2,000	2,000	1,000
Other S&E-related occupations	10,000	3,000	4,000	4,000	4,000	5,000	3,000	3,000	3,000
Male	9,000	2,000	4,000	3,000	3,000	5,000	3,000	3,000	3,000
Female	5,000	2,000	2,000	2,000	2,000	2,000	2,000	1,000	S
Non-S&E occupations	70,000	24,000	29,000	31,000	29,000	27,000	25,000	20,000	20,000
Male	54,000	16,000	24,000	24,000	22,000	20,000	20,000	18,000	15,000
Female	48,000	18,000	21,000	21,000	20,000	18,000	15,000	12,000	12,000
Art/humanities/related occupations	17,000	3,000	7,000	8,000	6,000	4,000	6,000	5,000	3,000
Male	11,000	2,000	5,000	5,000	4,000	3,000	3,000	3,000	2,000
Female	12,000	2,000	5,000	6,000	5,000	4,000	6,000	3,000	2,000
Management-related occupations	34,000	10,000	14,000	14,000	13,000	12,000	11,000	9,000	7,000
Male	26,000	7,000	12,000	9,000	10,000	9,000	10,000	7,000	6,000
Female	20,000	7,000	10,000	9,000	8,000	8,000	6,000	5,000	4,000
Non-S&E managers	26,000	6,000	9,000	10,000	11,000	10,000	10,000	7,000	7,000
Male	22,000	5,000	7,000	9,000	10,000	9,000	9,000	6,000	6,000
Female	11,000	3,000	6,000	4,000	5,000	4,000	3,000	3,000	3,000
Non-S&E postsecondary teachers	7,000	4,000	3,000	2,000	2,000	1,000	3,000	2,000	1,000
Male	5,000	3,000	3,000	1,000	2,000	1,000	3,000	1,000	1,000
Female	5,000	3,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000
Non-S&E precollege/other teachers	21,000	9,000	10,000	9,000	9,000	9,000	8,000	6,000	5,000

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Male	9,000	3,000	4,000	4,000	2,000	3,000	4,000	4,000	2,000
Female	19,000	8,000	8,000	8,000	9,000	8,000	7,000	4,000	4,000
Sales/marketing occupations	32,000	10,000	17,000	14,000	11,000	12,000	10,000	11,000	9,000
Male	29,000	7,000	15,000	11,000	10,000	10,000	9,000	10,000	7,000
Female	18,000	7,000	8,000	8,000	6,000	6,000	7,000	5,000	5,000
Social services/related occupations	17,000	9,000	8,000	8,000	6,000	5,000	4,000	4,000	3,000
Male	10,000	4,000	6,000	4,000	3,000	3,000	3,000	3,000	2,000
Female	14,000	8,000	7,000	6,000	5,000	4,000	3,000	3,000	2,000
Other non-S&E occupations	41,000	15,000	18,000	17,000	17,000	17,000	16,000	12,000	11,000
Male	32,000	10,000	14,000	13,000	12,000	13,000	14,000	11,000	9,000
Female	29,000	12,000	13,000	11,000	11,000	11,000	9,000	7,000	6,000
Bachelor's degrees, all occupations	69,000	23,000	36,000	29,000	31,000	30,000	27,000	24,000	19,000
Male	51,000	15,000	27,000	20,000	22,000	21,000	21,000	19,000	14,000
Female	45,000	17,000	24,000	20,000	23,000	22,000	17,000	14,000	13,000
S&E occupations	32,000	12,000	16,000	14,000	14,000	10,000	10,000	7,000	6,000
Male	25,000	9,000	14,000	12,000	11,000	9,000	8,000	7,000	6,000
Female	16,000	8,000	8,000	6,000	7,000	6,000	5,000	3,000	2,000
Scientists	27,000	12,000	14,000	12,000	12,000	9,000	8,000	6,000	5,000
Male	20,000	8,000	11,000	10,000	9,000	7,000	6,000	5,000	4,000
Female	16,000	8,000	7,000	6,000	7,000	6,000	5,000	3,000	2,000
Biological/agricultural/other life scientists	9,000	4,000	4,000	2,000	4,000	5,000	3,000	2,000	1,000
Male	7,000	3,000	2,000	2,000	3,000	4,000	2,000	2,000	1,000
Female	6,000	3,000	3,000	2,000	2,000	2,000	2,000	1,000	1,000
Agricultural/food scientists	3,000	1,000	2,000	1,000	1,000	2,000	1,000	1,000	1,000
Male	2,000	1,000	1,000	500	1,000	1,000	1,000	1,000	1,000
Female	2,000	1,000	2,000	500	500	1,000	500	S	S
Biological/medical scientists	7,000	3,000	3,000	2,000	3,000	4,000	2,000	1,000	1,000
Male	5,000	3,000	2,000	1,000	2,000	3,000	1,000	1,000	500
Female	5,000	3,000	3,000	1,000	2,000	1,000	2,000	500	1,000
Environmental life scientists	4,000	1,000	1,000	1,000	2,000	2,000	2,000	2,000	1,000
Male	4,000	1,000	500	1,000	2,000	2,000	2,000	2,000	1,000
Female	1,000	*	S	S	1,000	S	S	S	S
Postsecondary teachers-life/related sciences	2,000	1,000	1,000	S	S	S	S	S	S
Male	1,000	1,000	S	S	S	S	S	S	S
Female	1,000	1,000	S	S	S	S	S	S	S
Computer/mathematical scientists	24,000	8,000	12,000	11,000	11,000	7,000	7,000	4,000	4,000
Male	19,000	6,000	10,000	10,000	8,000	6,000	5,000	3,000	4,000
Female	13,000	5,000	6,000	5,000	6,000	5,000	4,000	2,000	2,000
Computer/information scientists	23,000	8,000	12,000	11,000	11,000	7,000	6,000	4,000	4,000
Male	19,000	6,000	10,000	9,000	8,000	6,000	5,000	3,000	4,000
Female	13,000	5,000	6,000	5,000	6,000	5,000	4,000	2,000	2,000
Mathematical scientists	5,000	1,000	2,000	1,000	2,000	1,000	3,000	1,000	1,000
Male	4,000	1,000	S	1,000	S	500	3,000	S	S
Female	3,000	500	2,000	S	1,000	S	1,000	S	S
Postsecondary teachers-computer/ mathematical sciences	2,000	1,000	1,000	1,000	1,000	2,000	1,000	500	1,000

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Male	2,000	1,000	1,000	1,000	S	1,000	1,000	S	S
Female	2,000	1,000	500	S	S	S	500	S	S
Physical/related scientists	8,000	4,000	3,000	2,000	2,000	3,000	2,000	2,000	1,000
Male	6,000	2,000	3,000	1,000	2,000	3,000	2,000	2,000	1,000
Female	5,000	4,000	2,000	2,000	1,000	1,000	1,000	500	500
Chemists, except biochemists	6,000	4,000	2,000	1,000	2,000	2,000	1,000	1,000	500
Male	3,000	1,000	1,000	1,000	1,000	2,000	1,000	1,000	500
Female	4,000	4,000	1,000	1,000	1,000	1,000	1,000	500	*
Earth/atmospheric/ocean scientists	3,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	500
Male	3,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	S
Female	2,000	500	500	S	S	500	S	S	S
Physicists/astronomers	1,000	500	S	S	500	S	S	S	S
Male	1,000	500	S	S	S	S	S	S	S
Female	500	*	S	S	S	S	S	S	S
Postsecondary teachers-physical/related sciences	2,000	1,000	S	S	S	S	S	S	S
Male	2,000	500	S	S	S	S	S	S	S
Female	1,000	1,000	S	S	S	S	S	S	S
Other physical/related scientists	4,000	1,000	2,000	1,000	1,000	2,000	1,000	1,000	S
Male	3,000	1,000	1,000	S	S	2,000	1,000	1,000	S
Female	2,000	1,000	1,000	500	500	S	S	S	S
Social/related scientists	8,000	5,000	5,000	2,000	2,000	2,000	2,000	2,000	2,000
Male	6,000	3,000	4,000	2,000	1,000	2,000	1,000	2,000	1,000
Female	5,000	3,000	3,000	1,000	2,000	2,000	2,000	1,000	1,000
Economists	2,000	500	500	S	500	S	500	S	S
Male	2,000	500	S	S	S	S	500	S	S
Female	500	500	S	S	S	S	S	S	S
Political/related scientists	2,000	1,000	S	S	S	S	S	S	S
Male	1,000	500	S	S	S	S	S	S	S
Female	2,000	1,000	S	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	2,000	1,000	S	S	S	S	S	S
Male	1,000	1,000	S	S	S	S	S	S	S
Female	2,000	1,000	S	S	S	S	S	S	S
Psychologists	3,000	2,000	1,000	S	1,000	S	S	S	S
Male	2,000	1,000	S	S	S	S	S	S	S
Female	2,000	1,000	S	S	1,000	S	S	S	S
Sociologists/anthropologists	2,000	1,000	1,000	S	S	S	S	S	S
Male	1,000	1,000	S	S	S	S	S	S	S
Female	2,000	S	S	S	S	S	S	S	S
Other social/related scientists	6,000	3,000	5,000	2,000	2,000	1,000	2,000	2,000	1,000
Male	6,000	2,000	4,000	2,000	1,000	1,000	1,000	2,000	1,000
Female	4,000	2,000	2,000	1,000	1,000	1,000	2,000	S	S
Engineers	17,000	4,000	9,000	6,000	7,000	7,000	5,000	4,000	4,000
Male	16,000	4,000	9,000	6,000	7,000	7,000	5,000	4,000	4,000
Female	5,000	2,000	3,000	2,000	2,000	2,000	1,000	1,000	500

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Aerospace/aeronautical/astronautical engineers	4,000	1,000	1,000	1,000	1,000	2,000	1,000	1,000	1,000
Male	3,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Female	1,000	500	500	S	500	1,000	S	S	S
Chemical engineers	3,000	1,000	2,000	1,000	2,000	1,000	1,000	1,000	500
Male	3,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	500
Female	1,000	500	1,000	1,000	500	500	S	S	S
Civil/architectural/sanitary engineers	7,000	1,000	4,000	2,000	3,000	2,000	2,000	2,000	2,000
Male	7,000	1,000	4,000	2,000	3,000	2,000	2,000	2,000	2,000
Female	2,000	1,000	1,000	500	1,000	1,000	500	S	S
Electrical/computer hardware engineers	7,000	2,000	4,000	3,000	2,000	2,000	2,000	1,000	2,000
Male	6,000	2,000	3,000	2,000	2,000	2,000	2,000	1,000	2,000
Female	3,000	1,000	2,000	1,000	1,000	500	S	S	S
Industrial engineers	4,000	1,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000
Male	4,000	1,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000
Female	1,000	500	1,000	500	500	500	S	S	S
Mechanical engineers	6,000	1,000	3,000	3,000	2,000	2,000	2,000	2,000	2,000
Male	6,000	1,000	3,000	3,000	2,000	2,000	2,000	2,000	2,000
Female	2,000	500	1,000	1,000	1,000	500	S	S	S
Postsecondary teachers-engineering	1,000	500	S	S	S	S	S	S	S
Male	1,000	500	S	S	S	S	S	S	S
Female	*	*	S	S	S	S	S	S	S
Other engineers	11,000	2,000	6,000	4,000	5,000	5,000	3,000	3,000	3,000
Male	11,000	2,000	6,000	4,000	4,000	5,000	3,000	3,000	3,000
Female	3,000	1,000	1,000	1,000	1,000	2,000	1,000	S	S
S&E-related occupations	39,000	14,000	20,000	17,000	15,000	16,000	15,000	12,000	9,000
Male	26,000	7,000	13,000	10,000	8,000	10,000	9,000	8,000	6,000
Female	30,000	11,000	15,000	14,000	14,000	14,000	12,000	8,000	7,000
Health-related occupations	31,000	11,000	17,000	15,000	13,000	13,000	13,000	8,000	6,000
Male	14,000	4,000	9,000	7,000	5,000	5,000	6,000	4,000	3,000
Female	26,000	10,000	14,000	13,000	12,000	12,000	11,000	6,000	6,000
S&E managers	12,000	2,000	4,000	5,000	4,000	5,000	5,000	3,000	4,000
Male	10,000	1,000	3,000	4,000	4,000	4,000	3,000	3,000	3,000
Female	7,000	1,000	3,000	2,000	2,000	3,000	3,000	1,000	2,000
S&E precollege teachers	14,000	5,000	8,000	7,000	6,000	4,000	5,000	5,000	5,000
Male	10,000	3,000	7,000	5,000	4,000	3,000	3,000	4,000	3,000
Female	10,000	4,000	5,000	5,000	4,000	4,000	4,000	3,000	4,000
S&E technicians/technologists	14,000	5,000	6,000	5,000	6,000	6,000	4,000	4,000	2,000
Male	12,000	4,000	5,000	4,000	5,000	5,000	4,000	3,000	2,000
Female	6,000	2,000	3,000	2,000	2,000	3,000	2,000	1,000	1,000
Other S&E-related occupations	9,000	2,000	4,000	3,000	3,000	4,000	3,000	3,000	2,000
Male	8,000	1,000	3,000	3,000	3,000	3,000	3,000	3,000	2,000
Female	4,000	2,000	2,000	1,000	1,000	2,000	2,000	S	S
Non-S&E occupations	58,000	16,000	23,000	25,000	24,000	23,000	22,000	18,000	17,000
Male	44,000	10,000	19,000	18,000	17,000	18,000	17,000	16,000	12,000
Female	37,000	13,000	16,000	16,000	16,000	15,000	13,000	10,000	10,000
Art/humanities/related occupations	14,000	3,000	5,000	7,000	5,000	4,000	6,000	3,000	2,000

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Male	9,000	2,000	4,000	5,000	3,000	2,000	2,000	2,000	2,000
Female	10,000	2,000	3,000	5,000	4,000	3,000	6,000	2,000	2,000
Management-related occupations	28,000	7,000	12,000	10,000	11,000	11,000	9,000	8,000	6,000
Male	21,000	5,000	10,000	7,000	9,000	8,000	7,000	7,000	5,000
Female	17,000	5,000	8,000	7,000	7,000	7,000	5,000	5,000	3,000
Non-S&E managers	21,000	1,000	6,000	8,000	9,000	8,000	8,000	6,000	6,000
Male	18,000	1,000	5,000	8,000	8,000	7,000	8,000	5,000	5,000
Female	8,000	1,000	4,000	3,000	3,000	3,000	3,000	3,000	3,000
Non-S&E postsecondary teachers	3,000	2,000	2,000	2,000	500	500	1,000	1,000	S
Male	2,000	1,000	1,000	1,000	S	500	S	1,000	S
Female	2,000	1,000	1,000	1,000	S	S	S	1,000	S
Non-S&E precollege/other teachers	17,000	5,000	7,000	8,000	7,000	7,000	6,000	4,000	5,000
Male	7,000	1,000	3,000	3,000	1,000	2,000	3,000	S	2,000
Female	15,000	4,000	6,000	7,000	7,000	6,000	5,000	3,000	4,000
Sales/marketing occupations	28,000	8,000	14,000	12,000	10,000	10,000	10,000	10,000	9,000
Male	25,000	5,000	12,000	9,000	9,000	9,000	8,000	9,000	7,000
Female	17,000	6,000	7,000	7,000	5,000	5,000	6,000	5,000	5,000
Social services/related occupations	12,000	6,000	6,000	5,000	4,000	3,000	3,000	3,000	2,000
Male	7,000	2,000	4,000	3,000	3,000	2,000	2,000	2,000	1,000
Female	9,000	5,000	5,000	3,000	4,000	3,000	2,000	2,000	2,000
Other non-S&E occupations	36,000	11,000	15,000	14,000	14,000	14,000	14,000	11,000	10,000
Male	27,000	7,000	11,000	11,000	10,000	10,000	12,000	9,000	8,000
Female	25,000	8,000	11,000	9,000	9,000	10,000	8,000	6,000	6,000
Master's degrees, all occupations	47,000	23,000	22,000	20,000	18,000	16,000	15,000	12,000	10,000
Male	33,000	15,000	16,000	15,000	14,000	12,000	11,000	10,000	9,000
Female	32,000	17,000	15,000	14,000	12,000	12,000	11,000	7,000	4,000
S&E occupations	20,000	11,000	9,000	8,000	9,000	6,000	5,000	5,000	4,000
Male	16,000	9,000	7,000	7,000	8,000	5,000	4,000	5,000	4,000
Female	12,000	7,000	5,000	4,000	4,000	3,000	3,000	1,000	1,000
Scientists	18,000	10,000	7,000	8,000	7,000	5,000	4,000	4,000	3,000
Male	14,000	8,000	6,000	6,000	6,000	4,000	3,000	4,000	2,000
Female	11,000	7,000	5,000	4,000	4,000	3,000	3,000	1,000	1,000
Biological/agricultural/other life scientists	5,000	3,000	2,000	2,000	2,000	2,000	2,000	1,000	1,000
Male	4,000	3,000	1,000	1,000	2,000	1,000	1,000	1,000	1,000
Female	3,000	2,000	2,000	1,000	1,000	1,000	500	500	500
Agricultural/food scientists	2,000	500	1,000	500	1,000	500	1,000	S	S
Male	2,000	500	S	S	1,000	500	S	S	S
Female	1,000	500	S	S	S	S	S	S	S
Biological/medical scientists	4,000	3,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000
Male	3,000	2,000	1,000	1,000	1,000	500	1,000	S	S
Female	3,000	2,000	1,000	1,000	1,000	1,000	500	S	500
Environmental life scientists	2,000	1,000	1,000	S	500	S	S	S	S
Male	2,000	500	S	S	500	S	S	S	S
Female	500	*	S	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	2,000	1,000	1,000	500	S	S	1,000	500	S
Male	1,000	1,000	S	S	S	S	S	S	S

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Female	1,000	1,000	1,000	500	S	S	S	S	S
Computer/mathematical scientists	14,000	8,000	5,000	6,000	5,000	4,000	3,000	4,000	1,000
Male	12,000	6,000	5,000	5,000	5,000	3,000	3,000	4,000	1,000
Female	7,000	5,000	3,000	3,000	2,000	2,000	2,000	1,000	500
Computer/information scientists	13,000	7,000	5,000	5,000	5,000	3,000	3,000	3,000	1,000
Male	12,000	6,000	5,000	5,000	5,000	3,000	3,000	3,000	1,000
Female	7,000	5,000	3,000	3,000	2,000	2,000	1,000	1,000	500
Mathematical scientists	3,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	S
Male	2,000	1,000	1,000	1,000	500	1,000	1,000	1,000	S
Female	2,000	1,000	1,000	1,000	S	500	S	S	S
Postsecondary teachers-computer/ mathematical sciences	3,000	1,000	2,000	1,000	1,000	1,000	2,000	1,000	1,000
Male	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Female	2,000	500	1,000	1,000	500	1,000	1,000	500	S
Physical/related scientists	5,000	2,000	2,000	3,000	2,000	1,000	1,000	1,000	1,000
Male	4,000	1,000	1,000	3,000	2,000	1,000	1,000	1,000	1,000
Female	3,000	2,000	1,000	1,000	1,000	500	500	500	S
Chemists, except biochemists	3,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500
Male	2,000	1,000	1,000	500	1,000	1,000	500	1,000	S
Female	2,000	1,000	1,000	1,000	S	S	500	S	S
Earth/atmospheric/ocean scientists	3,000	1,000	1,000	3,000	1,000	1,000	500	500	1,000
Male	3,000	500	1,000	3,000	1,000	1,000	500	500	1,000
Female	1,000	500	S	500	S	S	S	S	S
Physicists/astronomers	1,000	1,000	500	S	S	1,000	S	S	S
Male	1,000	1,000	500	S	S	1,000	S	S	S
Female	500	*	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	2,000	1,000	1,000	1,000	S	S	500	500	1,000
Male	1,000	500	S	S	S	S	500	500	S
Female	1,000	1,000	S	S	S	S	S	S	S
Other physical/related scientists	1,000	1,000	1,000	1,000	1,000	S	S	S	S
Male	1,000	500	1,000	S	S	S	S	S	S
Female	1,000	1,000	S	S	S	S	S	S	S
Social/related scientists	10,000	5,000	4,000	4,000	3,000	3,000	2,000	2,000	1,000
Male	6,000	3,000	2,000	3,000	2,000	3,000	1,000	2,000	1,000
Female	7,000	4,000	4,000	3,000	3,000	2,000	2,000	1,000	1,000
Economists	3,000	1,000	1,000	2,000	500	1,000	1,000	1,000	S
Male	2,000	1,000	1,000	1,000	S	S	S	1,000	S
Female	2,000	1,000	S	S	S	S	S	S	S
Political/related scientists	1,000	500	S	S	S	S	S	S	S
Male	1,000	500	S	S	S	S	S	S	S
Female	500	500	S	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500
Male	2,000	1,000	1,000	1,000	S	1,000	1,000	1,000	500
Female	2,000	1,000	1,000	500	1,000	500	500	500	S
Psychologists	6,000	3,000	3,000	2,000	2,000	2,000	1,000	1,000	1,000

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Male	3,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500
Female	5,000	3,000	3,000	2,000	2,000	2,000	1,000	1,000	1,000
Sociologists/anthropologists	2,000	1,000	1,000	S	S	1,000	S	S	S
Male	1,000	*	500	S	S	S	S	S	S
Female	1,000	1,000	S	S	S	S	S	S	S
Other social/related scientists	6,000	3,000	2,000	2,000	3,000	2,000	1,000	1,000	S
Male	4,000	2,000	1,000	2,000	2,000	2,000	S	1,000	S
Female	4,000	2,000	1,000	1,000	2,000	1,000	1,000	S	S
Engineers	9,000	4,000	5,000	3,000	5,000	4,000	3,000	2,000	3,000
Male	9,000	4,000	4,000	3,000	5,000	4,000	3,000	2,000	3,000
Female	3,000	2,000	2,000	2,000	1,000	1,000	1,000	S	1,000
Aerospace/aeronautical/astronautical engineers	4,000	1,000	2,000	1,000	1,000	1,000	1,000	500	2,000
Male	3,000	1,000	1,000	1,000	1,000	1,000	1,000	500	2,000
Female	1,000	500	S	S	S	S	S	S	S
Chemical engineers	2,000	1,000	1,000	1,000	1,000	500	1,000	500	500
Male	2,000	1,000	1,000	1,000	1,000	500	1,000	500	500
Female	1,000	1,000	S	500	S	S	S	S	S
Civil/architectural/sanitary engineers	3,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
Male	3,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
Female	2,000	1,000	1,000	500	1,000	S	S	S	S
Electrical/computer hardware engineers	5,000	2,000	3,000	2,000	2,000	1,000	1,000	1,000	1,000
Male	5,000	2,000	3,000	2,000	2,000	1,000	1,000	1,000	1,000
Female	2,000	1,000	1,000	1,000	1,000	S	S	S	S
Industrial engineers	3,000	2,000	1,000	2,000	1,000	500	1,000	1,000	S
Male	3,000	1,000	1,000	2,000	1,000	S	1,000	1,000	S
Female	1,000	500	500	S	S	S	S	S	S
Mechanical engineers	4,000	2,000	1,000	1,000	1,000	3,000	1,000	1,000	500
Male	4,000	2,000	1,000	1,000	1,000	3,000	1,000	1,000	500
Female	1,000	1,000	500	500	S	S	S	S	S
Postsecondary teachers-engineering	1,000	1,000	S	S	500	S	S	S	S
Male	1,000	1,000	S	S	S	S	S	S	S
Female	1,000	500	S	S	S	S	S	S	S
Other engineers	6,000	2,000	2,000	2,000	4,000	2,000	2,000	2,000	1,000
Male	6,000	2,000	2,000	1,000	4,000	2,000	2,000	2,000	1,000
Female	2,000	1,000	1,000	1,000	500	500	S	S	S
S&E-related occupations	23,000	12,000	12,000	10,000	9,000	8,000	8,000	5,000	4,000
Male	15,000	7,000	7,000	6,000	6,000	4,000	4,000	4,000	4,000
Female	18,000	11,000	10,000	8,000	7,000	7,000	6,000	3,000	1,000
Health-related occupations	16,000	9,000	9,000	8,000	8,000	6,000	5,000	3,000	2,000
Male	8,000	4,000	4,000	4,000	4,000	2,000	1,000	2,000	1,000
Female	13,000	8,000	8,000	6,000	6,000	5,000	5,000	3,000	1,000
S&E managers	7,000	2,000	3,000	3,000	3,000	3,000	2,000	2,000	1,000
Male	5,000	2,000	3,000	3,000	2,000	2,000	2,000	2,000	1,000
Female	4,000	2,000	2,000	2,000	2,000	2,000	1,000	500	S
S&E precollege teachers	12,000	7,000	6,000	5,000	4,000	4,000	4,000	3,000	2,000
Male	9,000	6,000	4,000	3,000	3,000	2,000	2,000	3,000	2,000

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Female	9,000	6,000	4,000	4,000	3,000	3,000	3,000	1,000	1,000
S&E technicians/technologists	6,000	3,000	3,000	2,000	3,000	2,000	1,000	2,000	1,000
Male	5,000	2,000	2,000	1,000	2,000	1,000	1,000	1,000	S
Female	4,000	1,000	3,000	1,000	2,000	500	1,000	1,000	500
Other S&E-related occupations	5,000	2,000	2,000	2,000	2,000	3,000	2,000	1,000	3,000
Male	5,000	1,000	2,000	2,000	1,000	3,000	2,000	1,000	3,000
Female	2,000	1,000	1,000	1,000	1,000	1,000	S	S	S
Non-S&E occupations	38,000	17,000	18,000	16,000	14,000	13,000	12,000	10,000	7,000
Male	26,000	11,000	12,000	12,000	10,000	10,000	10,000	8,000	6,000
Female	26,000	12,000	12,000	12,000	10,000	10,000	7,000	6,000	3,000
Art/humanities/related occupations	8,000	2,000	5,000	4,000	3,000	2,000	2,000	3,000	2,000
Male	6,000	1,000	3,000	3,000	2,000	2,000	2,000	S	2,000
Female	6,000	1,000	3,000	3,000	2,000	S	S	S	S
Management-related occupations	16,000	7,000	8,000	8,000	7,000	6,000	7,000	5,000	4,000
Male	13,000	4,000	5,000	6,000	5,000	4,000	6,000	4,000	4,000
Female	11,000	5,000	6,000	5,000	4,000	4,000	3,000	2,000	2,000
Non-S&E managers	13,000	5,000	6,000	6,000	5,000	6,000	5,000	3,000	3,000
Male	12,000	5,000	5,000	6,000	4,000	5,000	5,000	3,000	3,000
Female	6,000	3,000	3,000	3,000	2,000	3,000	2,000	1,000	S
Non-S&E postsecondary teachers	6,000	4,000	2,000	2,000	2,000	1,000	3,000	1,000	1,000
Male	4,000	3,000	1,000	1,000	1,000	500	3,000	1,000	500
Female	3,000	2,000	1,000	1,000	1,000	1,000	1,000	S	S
Non-S&E precollege/other teachers	14,000	8,000	7,000	5,000	6,000	5,000	5,000	3,000	2,000
Male	6,000	3,000	3,000	2,000	1,000	2,000	2,000	2,000	S
Female	13,000	7,000	6,000	4,000	6,000	4,000	4,000	2,000	1,000
Sales/marketing occupations	16,000	6,000	8,000	7,000	4,000	5,000	5,000	4,000	4,000
Male	13,000	5,000	7,000	6,000	3,000	5,000	5,000	4,000	3,000
Female	8,000	3,000	4,000	3,000	3,000	2,000	3,000	2,000	2,000
Social services/related occupations	12,000	7,000	5,000	6,000	4,000	4,000	3,000	3,000	2,000
Male	6,000	3,000	4,000	2,000	2,000	2,000	2,000	2,000	2,000
Female	11,000	6,000	5,000	5,000	4,000	3,000	3,000	2,000	1,000
Other non-S&E occupations	18,000	8,000	8,000	7,000	7,000	6,000	5,000	6,000	3,000
Male	13,000	5,000	6,000	5,000	5,000	5,000	5,000	5,000	2,000
Female	12,000	5,000	5,000	5,000	4,000	4,000	3,000	4,000	2,000
Doctorate degrees, all occupations	11,000	7,000	5,000	3,000	3,000	4,000	2,000	3,000	2,000
Male	8,000	5,000	4,000	3,000	3,000	3,000	2,000	3,000	2,000
Female	6,000	4,000	3,000	2,000	2,000	2,000	1,000	1,000	500
S&E occupations	5,000	4,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000
Male	4,000	3,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000
Female	3,000	3,000	1,000	1,000	1,000	1,000	1,000	500	500
Scientists	5,000	4,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000
Male	4,000	2,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000
Female	3,000	3,000	1,000	1,000	1,000	1,000	1,000	500	500
Biological/agricultural/other life scientists	3,000	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000
Male	2,000	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000
Female	2,000	2,000	1,000	1,000	1,000	500	500	500	*
Agricultural/food scientists	500	500	500	500	500	500	500	500	*

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Male	500	500	500	500	500	500	500	500	*
Female	500	*	*	*	*	*	*	S	S
Biological/medical scientists	3,000	2,000	1,000	1,000	1,000	1,000	500	500	500
Male	2,000	2,000	1,000	1,000	1,000	1,000	500	500	500
Female	2,000	1,000	1,000	1,000	1,000	500	500	500	*
Environmental life scientists	500	*	*	500	*	S	S	S	S
Male	500	*	*	*	*	S	S	S	S
Female	*	*	S	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	1,000	500	500	500	1,000	500	500	500	500
Male	1,000	500	500	500	500	500	500	500	500
Female	1,000	500	500	500	500	500	500	500	*
Computer/mathematical scientists	3,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000	500
Male	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500
Female	2,000	2,000	500	500	500	500	500	*	*
Computer/information scientists	2,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500
Male	2,000	1,000	1,000	500	1,000	1,000	500	500	500
Female	1,000	500	500	500	*	500	*	S	S
Mathematical scientists	1,000	500	500	500	500	500	500	500	*
Male	1,000	500	500	500	500	500	500	500	*
Female	500	500	500	*	*	S	*	S	S
Postsecondary teachers-computer/mathematical sciences	2,000	2,000	500	500	1,000	500	500	500	500
Male	1,000	1,000	500	500	1,000	500	500	500	500
Female	2,000	2,000	500	500	500	*	*	*	S
Physical/related scientists	2,000	1,000	1,000	1,000	1,000	1,000	500	500	500
Male	2,000	1,000	1,000	1,000	500	1,000	500	500	500
Female	1,000	500	500	500	500	500	500	500	*
Chemists, except biochemists	1,000	1,000	500	500	500	500	500	500	500
Male	1,000	1,000	500	500	500	500	500	500	500
Female	500	500	500	500	500	*	S	*	S
Earth/atmospheric/ocean scientists	1,000	500	500	500	500	500	500	500	500
Male	1,000	500	500	500	500	500	500	500	500
Female	500	*	*	*	*	S	*	S	S
Physicists/astronomers	1,000	500	500	500	500	500	500	500	500
Male	1,000	500	500	500	500	500	500	500	500
Female	500	500	*	*	S	S	S	S	S
Postsecondary teachers-physical/related sciences	1,000	1,000	500	500	500	500	500	500	500
Male	1,000	500	500	500	500	500	500	500	500
Female	500	500	500	500	500	*	*	*	*
Other physical/related scientists	1,000	500	500	500	*	500	*	*	*
Male	1,000	*	500	500	*	500	*	*	*
Female	500	*	*	*	S	S	S	S	S
Social/related scientists	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500
Male	2,000	1,000	1,000	1,000	500	1,000	1,000	500	500
Female	2,000	1,000	1,000	1,000	1,000	500	500	500	500

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Economists	500	500	500	500	500	500	500	500	*
Male	500	500	500	500	*	500	500	500	*
Female	500	*	*	*	*	*	*	S	S
Political/related scientists	500	*	*	*	S	S	*	S	*
Male	500	*	*	S	S	S	S	S	*
Female	*	*	*	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500
Male	2,000	1,000	1,000	500	500	1,000	1,000	500	500
Female	1,000	1,000	500	500	500	500	500	500	*
Psychologists	1,000	1,000	500	1,000	500	500	1,000	500	500
Male	1,000	500	500	500	500	500	1,000	500	500
Female	1,000	1,000	500	500	500	500	500	500	*
Sociologists/anthropologists	1,000	1,000	500	*	500	*	*	*	S
Male	500	*	*	*	*	*	*	*	S
Female	1,000	1,000	*	*	*	*	*	S	S
Other social/related scientists	1,000	500	500	500	500	*	500	*	*
Male	500	500	500	*	*	*	*	*	*
Female	500	500	500	*	*	*	*	*	S
Engineers	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000	1,000
Male	2,000	1,000	1,000	1,000	500	500	500	1,000	1,000
Female	1,000	500	500	500	500	*	*	S	S
Aerospace/aeronautical/astronautical engineers	1,000	500	500	500	500	*	*	500	500
Male	1,000	500	500	500	500	*	*	500	500
Female	*	S	S	S	S	S	S	S	S
Chemical engineers	1,000	500	500	500	500	500	500	500	*
Male	1,000	500	500	500	500	500	500	500	*
Female	500	*	*	*	S	S	S	S	S
Civil/architectural/sanitary engineers	500	500	500	500	500	*	*	*	*
Male	500	500	500	500	500	*	*	*	*
Female	*	S	*	S	S	S	S	S	S
Electrical/computer hardware engineers	1,000	500	500	500	500	500	500	500	500
Male	1,000	500	500	500	500	500	500	500	500
Female	500	500	500	*	S	S	S	S	S
Industrial engineers	1,000	1,000	*	*	*	S	S	S	S
Male	1,000	S	*	*	S	S	S	S	S
Female	*	*	S	S	S	S	S	S	S
Mechanical engineers	500	500	500	500	500	500	500	500	*
Male	500	500	500	500	500	500	500	500	*
Female	500	*	*	*	S	S	S	S	S
Postsecondary teachers-engineering	1,000	500	500	500	500	500	500	500	500
Male	1,000	500	500	500	500	500	500	500	500
Female	500	500	*	*	*	*	S	S	S
Other engineers	1,000	500	1,000	500	500	500	500	500	500
Male	1,000	500	1,000	500	500	500	500	500	500
Female	500	500	500	*	*	S	S	S	S

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
S&E-related occupations	5,000	3,000	2,000	1,000	2,000	2,000	1,000	1,000	1,000
Male	3,000	1,000	1,000	1,000	500	2,000	1,000	1,000	1,000
Female	4,000	2,000	2,000	1,000	2,000	1,000	500	500	*
Health-related occupations	3,000	2,000	1,000	1,000	2,000	1,000	500	500	1,000
Male	1,000	1,000	500	1,000	500	1,000	500	500	500
Female	3,000	2,000	1,000	1,000	1,000	1,000	500	500	*
S&E managers	1,000	500	500	500	500	500	500	1,000	500
Male	1,000	500	500	500	500	500	500	1,000	500
Female	500	500	500	500	500	500	*	S	S
S&E precollege teachers	3,000	500	2,000	1,000	500	1,000	500	1,000	*
Male	1,000	500	500	500	*	1,000	500	1,000	*
Female	2,000	500	2,000	500	500	*	*	S	S
S&E technicians/technologists	1,000	1,000	500	500	500	*	*	*	*
Male	1,000	1,000	500	500	500	*	*	*	*
Female	500	*	500	*	S	S	S	S	S
Other S&E-related occupations	2,000	S	S	S	S	S	S	S	S
Male	1,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Non-S&E occupations	8,000	5,000	4,000	3,000	2,000	3,000	2,000	3,000	1,000
Male	7,000	4,000	3,000	2,000	2,000	2,000	2,000	3,000	1,000
Female	4,000	2,000	2,000	1,000	2,000	2,000	1,000	1,000	500
Art/humanities/related occupations	1,000	1,000	1,000	1,000	500	500	500	500	500
Male	1,000	500	1,000	1,000	*	*	*	500	500
Female	1,000	1,000	500	500	*	*	*	*	*
Management-related occupations	4,000	3,000	1,000	1,000	1,000	1,000	500	1,000	1,000
Male	3,000	3,000	1,000	1,000	1,000	1,000	500	1,000	1,000
Female	1,000	1,000	1,000	500	1,000	1,000	500	*	S
Non-S&E managers	4,000	1,000	2,000	2,000	1,000	2,000	1,000	1,000	500
Male	3,000	1,000	2,000	1,000	1,000	2,000	1,000	1,000	500
Female	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	*
Non-S&E postsecondary teachers	3,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	500
Male	2,000	1,000	2,000	1,000	1,000	1,000	1,000	500	500
Female	1,000	1,000	1,000	500	500	500	500	*	*
Non-S&E precollege/other teachers	2,000	500	500	1,000	500	500	S	2,000	S
Male	2,000	S	500	*	500	S	S	2,000	S
Female	1,000	*	500	1,000	*	500	S	S	S
Sales/marketing occupations	3,000	2,000	500	500	1,000	500	1,000	1,000	1,000
Male	3,000	2,000	500	500	1,000	500	1,000	1,000	1,000
Female	1,000	500	*	*	1,000	*	*	S	S
Social services/related occupations	2,000	1,000	1,000	1,000	500	500	500	1,000	*
Male	2,000	500	1,000	1,000	*	500	*	1,000	*
Female	1,000	500	1,000	*	*	*	*	S	S

TABLE A-19. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Other non-S&E occupations	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000	1,000
Male	2,000	500	500	500	1,000	1,000	500	1,000	1,000
Female	2,000	1,000	1,000	1,000	500	1,000	500	*	S

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
All degrees and occupations[b]	82,000	32,000	43,000	38,000	39,000	35,000	31,000	27,000	22,000
American Indian/Alaska Native	6,000	3,000	3,000	2,000	2,000	2,000	2,000	1,000	1,000
Asian	22,000	10,000	11,000	10,000	9,000	9,000	7,000	6,000	5,000
Black	20,000	9,000	11,000	9,000	8,000	7,000	6,000	5,000	3,000
Hispanic	20,000	9,000	10,000	8,000	8,000	8,000	6,000	2,000	4,000
White	77,000	30,000	40,000	35,000	34,000	31,000	30,000	25,000	20,000
Other	12,000	5,000	8,000	5,000	4,000	3,000	4,000	3,000	2,000
S&E occupations	39,000	17,000	19,000	16,000	17,000	12,000	11,000	8,000	8,000
American Indian/Alaska Native	2,000	500	1,000	1,000	2,000	500	500	*	S
Asian	12,000	7,000	6,000	5,000	4,000	3,000	3,000	2,000	2,000
Black	7,000	4,000	4,000	3,000	3,000	3,000	2,000	1,000	1,000
Hispanic	7,000	3,000	4,000	3,000	2,000	3,000	1,000	1,000	1,000
White	36,000	14,000	16,000	14,000	16,000	12,000	10,000	8,000	7,000
Other	5,000	3,000	4,000	2,000	2,000	1,000	1,000	2,000	500
Scientists	34,000	16,000	15,000	15,000	14,000	10,000	9,000	7,000	6,000
American Indian/Alaska Native	2,000	500	1,000	1,000	1,000	500	S	S	S
Asian	10,000	6,000	5,000	4,000	3,000	2,000	2,000	1,000	1,000
Black	6,000	4,000	3,000	3,000	2,000	2,000	2,000	1,000	1,000
Hispanic	6,000	3,000	4,000	3,000	1,000	2,000	1,000	1,000	1,000
White	31,000	14,000	14,000	13,000	13,000	10,000	9,000	7,000	6,000
Other	4,000	3,000	2,000	1,000	1,000	1,000	1,000	1,000	500
Biological/agricultural/other life scientists	10,000	5,000	5,000	3,000	4,000	5,000	3,000	3,000	2,000
American Indian/Alaska Native	1,000	500	S	S	S	S	S	S	S
Asian	3,000	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000
Black	1,000	1,000	1,000	1,000	500	500	500	1,000	*
Hispanic	2,000	1,000	1,000	1,000	500	500	*	*	1,000
White	9,000	5,000	4,000	3,000	4,000	5,000	3,000	3,000	2,000
Other	1,000	1,000	1,000	500	500	500	*	S	S
Agricultural/food scientists	4,000	1,000	2,000	1,000	2,000	2,000	2,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	*	*	500	500	1,000	*	S
Black	500	*	*	500	S	S	S	S	S
Hispanic	1,000	*	1,000	*	S	S	S	S	S
White	3,000	1,000	2,000	1,000	2,000	2,000	1,000	1,000	1,000
Other	*	S	S	S	S	S	S	S	S
Biological/medical scientists	9,000	5,000	4,000	3,000	3,000	4,000	2,000	2,000	2,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	3,000	2,000	1,000	1,000	1,000	1,000	1,000	500	500
Black	1,000	1,000	1,000	500	*	500	*	S	S
Hispanic	2,000	1,000	1,000	1,000	500	500	*	S	S
White	8,000	4,000	3,000	3,000	3,000	4,000	2,000	1,000	1,000
Other	1,000	1,000	1,000	*	*	S	S	S	S
Environmental life scientists	4,000	1,000	1,000	1,000	2,000	2,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	500	S	S	S	S	S	S	S	S
Hispanic	500	S	S	S	S	S	S	S	S
White	4,000	1,000	1,000	1,000	2,000	2,000	2,000	2,000	1,000
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	3,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	500	*	500	*	*	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	500	*	*	*	*	*	*	S	S
Hispanic	500	*	*	*	*	S	*	S	S
White	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500
Other	500	S	*	*	S	S	S	S	S
Computer/mathematical scientists	27,000	11,000	13,000	13,000	12,000	9,000	8,000	5,000	4,000
American Indian/Alaska Native	1,000	500	1,000	S	S	S	S	S	S
Asian	9,000	6,000	4,000	4,000	3,000	2,000	2,000	1,000	1,000
Black	6,000	3,000	3,000	3,000	2,000	2,000	1,000	1,000	1,000
Hispanic	5,000	3,000	3,000	2,000	1,000	2,000	1,000	1,000	500
White	25,000	9,000	12,000	11,000	11,000	8,000	7,000	5,000	4,000
Other	3,000	1,000	2,000	1,000	1,000	1,000	1,000	500	S
Computer/information scientists	26,000	11,000	13,000	12,000	11,000	8,000	7,000	5,000	4,000
American Indian/Alaska Native	1,000	*	1,000	S	S	S	S	S	S
Asian	9,000	6,000	4,000	4,000	3,000	2,000	1,000	1,000	1,000
Black	5,000	2,000	3,000	3,000	2,000	1,000	1,000	1,000	S
Hispanic	5,000	3,000	3,000	2,000	1,000	2,000	1,000	1,000	500
White	25,000	9,000	12,000	11,000	11,000	8,000	6,000	5,000	4,000
Other	3,000	1,000	2,000	1,000	1,000	1,000	500	500	S
Mathematical scientists	6,000	1,000	2,000	2,000	2,000	1,000	3,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	500	500	500	*	1,000	S	S
Black	1,000	1,000	500	S	S	S	S	S	S
Hispanic	1,000	500	*	S	S	S	S	S	S
White	5,000	1,000	2,000	2,000	2,000	1,000	3,000	2,000	1,000
Other	1,000	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematics/science	4,000	2,000	2,000	2,000	1,000	2,000	2,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	500	1,000	1,000	500	*	500	*
Black	2,000	2,000	1,000	500	*	500	*	*	S
Hispanic	1,000	500	500	*	*	500	S	S	S
White	3,000	1,000	1,000	1,000	1,000	2,000	2,000	1,000	1,000
Other	500	S	S	S	S	S	S	S	S
Physical/related scientists	9,000	5,000	4,000	4,000	3,000	4,000	2,000	2,000	2,000
American Indian/Alaska Native	500	*	*	S	S	S	S	S	S
Asian	2,000	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000
Black	1,000	500	500	500	500	500	500	S	S
Hispanic	1,000	1,000	1,000	1,000	500	1,000	500	500	*
White	8,000	4,000	3,000	3,000	3,000	4,000	2,000	2,000	1,000
Other	1,000	1,000	500	500	*	*	500	S	S
Chemists, except biochemists	6,000	4,000	2,000	2,000	2,000	2,000	2,000	1,000	1,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	500	1,000	500	1,000	500	500
Black	1,000	500	500	500	500	500	500	S	S
Hispanic	1,000	500	*	1,000	*	1,000	500	S	S
White	5,000	4,000	2,000	1,000	2,000	2,000	1,000	1,000	1,000
Other	1,000	1,000	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	5,000	1,000	2,000	3,000	2,000	1,000	1,000	1,000	1,000
American Indian/Alaska Native	*	*	S	S	S	S	S	S	S
Asian	500	500	*	*	*	S	S	S	S
Black	500	*	S	S	S	S	S	S	S
Hispanic	500	500	500	500	*	S	*	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	5,000	1,000	2,000	3,000	2,000	1,000	1,000	1,000	1,000
Other	500	*	S	S	S	S	S	S	S
Physicists/astronomers	2,000	1,000	1,000	500	500	1,000	500	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	500	500	500	*	*	S	S
Black	500	S	S	S	S	S	S	S	S
Hispanic	500	*	*	S	S	S	S	S	S
White	2,000	1,000	1,000	500	500	1,000	500	1,000	500
Other	*	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	3,000	1,000	2,000	1,000	1,000	500	1,000	500	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	500	*	*	*	*	*	500
Black	500	*	*	*	*	S	*	S	S
Hispanic	1,000	1,000	*	*	*	*	S	S	S
White	3,000	1,000	2,000	1,000	1,000	500	500	500	1,000
Other	500	*	S	*	S	S	S	S	S
Other physical/related scientists	4,000	2,000	2,000	1,000	1,000	3,000	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	*	S	S	S	S	S	S
Black	500	S	S	S	S	S	S	S	S
Hispanic	1,000	*	S	S	S	S	S	S	S
White	4,000	2,000	2,000	1,000	1,000	3,000	1,000	1,000	*
Other	*	S	S	S	S	S	S	S	S
Social/related scientists	14,000	7,000	6,000	5,000	4,000	4,000	3,000	3,000	2,000
American Indian/Alaska Native	1,000	*	1,000	S	S	S	S	S	S
Asian	3,000	2,000	1,000	1,000	500	500	500	500	1,000
Black	3,000	2,000	2,000	1,000	1,000	1,000	1,000	500	S
Hispanic	2,000	1,000	1,000	1,000	1,000	500	500	500	S
White	12,000	6,000	6,000	4,000	4,000	4,000	3,000	3,000	2,000
Other	2,000	2,000	1,000	*	*	*	500	*	S
Economists	3,000	1,000	1,000	2,000	500	2,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	500	500	S	S	S	S	S
Black	1,000	500	*	S	S	S	S	S	S
Hispanic	500	*	*	S	S	S	S	S	S
White	3,000	1,000	1,000	2,000	500	1,000	1,000	1,000	1,000
Other	*	S	S	S	S	S	S	S	S
Political/related scientists	2,000	1,000	1,000	1,000	1,000	1,000	*	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	*	S	S	S	S	S	S	S	S
Black	500	S	S	S	S	S	S	S	S
Hispanic	500	S	S	S	S	S	S	S	S
White	2,000	1,000	1,000	1,000	1,000	1,000	*	S	*
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	4,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
American Indian/Alaska Native	*	S	*	S	S	S	S	S	S
Asian	1,000	1,000	500	500	500	500	*	*	S
Black	1,000	500	500	500	*	*	500	*	S
Hispanic	1,000	500	500	500	*	*	S	*	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	4,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
Other	500	500	500	S	*	S	S	S	S
Psychologists	6,000	4,000	3,000	2,000	2,000	2,000	1,000	1,000	1,000
American Indian/Alaska Native	*	*	S	S	S	S	S	S	S
Asian	1,000	1,000	500	*	*	*	S	S	S
Black	2,000	1,000	2,000	1,000	*	500	*	S	S
Hispanic	1,000	1,000	1,000	1,000	500	500	*	S	S
White	6,000	3,000	3,000	2,000	2,000	2,000	1,000	1,000	1,000
Other	500	*	500	*	*	*	500	S	S
Sociologists/anthropologists	3,000	2,000	1,000	1,000	1,000	1,000	500	500	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	*	S	S	S	S	S	S	S	S
Black	1,000	*	S	S	S	S	S	S	S
Hispanic	1,000	1,000	500	S	S	S	S	S	S
White	2,000	2,000	1,000	1,000	1,000	1,000	500	*	1,000
Other	*	S	S	S	S	S	S	S	S
Other social/related scientists	9,000	4,000	5,000	3,000	3,000	2,000	3,000	2,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	S	S	S	S	S
Black	2,000	2,000	1,000	S	S	*	1,000	S	S
Hispanic	1,000	500	1,000	500	S	S	S	S	S
White	8,000	3,000	5,000	3,000	3,000	2,000	2,000	2,000	2,000
Other	2,000	S	*	S	S	S	S	S	S
Engineers	18,000	6,000	10,000	7,000	8,000	8,000	6,000	5,000	5,000
American Indian/Alaska Native	1,000	500	S	500	1,000	S	S	S	S
Asian	6,000	3,000	3,000	2,000	2,000	2,000	2,000	1,000	1,000
Black	4,000	2,000	1,000	1,000	2,000	2,000	1,000	1,000	500
Hispanic	4,000	1,000	2,000	2,000	1,000	2,000	1,000	500	1,000
White	18,000	5,000	9,000	7,000	8,000	7,000	5,000	4,000	5,000
Other	4,000	1,000	3,000	1,000	1,000	1,000	1,000	1,000	500
Aerospace/aeronautical/astronautical engineers	5,000	1,000	2,000	2,000	2,000	2,000	1,000	1,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	500	500	500	500	500	500	S
Black	1,000	*	500	S	S	S	S	S	S
Hispanic	1,000	500	500	*	500	*	S	S	S
White	5,000	1,000	2,000	2,000	1,000	2,000	1,000	1,000	3,000
Other	1,000	*	S	S	1,000	S	S	S	S
Chemical engineers	3,000	1,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	500	500	500	500	*
Black	500	500	S	S	S	*	S	S	S
Hispanic	1,000	500	500	*	500	S	S	S	S
White	3,000	1,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000
Other	1,000	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	8,000	2,000	4,000	3,000	3,000	3,000	2,000	2,000	2,000
American Indian/Alaska Native	500	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	500	1,000	1,000	1,000	1,000
Black	1,000	500	500	1,000	500	500	500	S	S
Hispanic	2,000	1,000	1,000	1,000	1,000	500	500	500	1,000
White	7,000	2,000	3,000	2,000	3,000	3,000	2,000	2,000	2,000
Other	3,000	500	3,000	500	S	S	1,000	1,000	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Electrical/computer hardware engineers	8,000	3,000	5,000	3,000	3,000	3,000	3,000	2,000	2,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	4,000	1,000	3,000	1,000	2,000	1,000	2,000	1,000	500
Black	2,000	1,000	1,000	500	1,000	500	1,000	S	S
Hispanic	2,000	500	1,000	1,000	1,000	1,000	1,000	S	S
White	6,000	3,000	4,000	3,000	2,000	3,000	2,000	1,000	1,000
Other	1,000	1,000	500	S	500	*	1,000	S	S
Industrial engineers	5,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	500	500	S	S	S
Black	1,000	*	1,000	S	S	S	S	S	S
Hispanic	1,000	500	1,000	S	500	S	S	S	S
White	4,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000
Other	500	S	S	S	S	S	S	S	S
Mechanical engineers	7,000	3,000	3,000	4,000	3,000	3,000	2,000	2,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	500	1,000	500	500	500
Black	1,000	500	500	500	1,000	*	S	S	S
Hispanic	1,000	1,000	1,000	1,000	500	500	500	S	500
White	7,000	2,000	3,000	3,000	3,000	3,000	2,000	2,000	2,000
Other	1,000	500	500	500	S	S	S	S	S
Postsecondary teachers-engineering	2,000	1,000	1,000	500	500	500	500	500	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	500	500	500	500	500	*	*
Black	500	*	*	*	*	S	*	S	S
Hispanic	500	500	*	*	*	S	*	S	S
White	1,000	1,000	1,000	500	500	500	500	500	500
Other	*	S	S	S	S	S	S	S	S
Other engineers	12,000	3,000	6,000	4,000	6,000	5,000	3,000	3,000	3,000
American Indian/Alaska Native	500	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500
Black	2,000	1,000	1,000	500	1,000	2,000	500	S	S
Hispanic	2,000	500	1,000	1,000	1,000	1,000	500	S	S
White	12,000	3,000	6,000	4,000	6,000	4,000	3,000	3,000	3,000
Other	1,000	1,000	500	S	500	S	*	S	S
S&E-related occupations	48,000	21,000	25,000	22,000	19,000	19,000	17,000	14,000	12,000
American Indian/Alaska Native	3,000	1,000	2,000	1,000	500	1,000	1,000	S	S
Asian	12,000	6,000	6,000	6,000	5,000	5,000	5,000	3,000	3,000
Black	11,000	5,000	5,000	5,000	5,000	4,000	2,000	2,000	2,000
Hispanic	10,000	5,000	4,000	4,000	5,000	3,000	3,000	2,000	2,000
White	42,000	19,000	23,000	21,000	17,000	17,000	16,000	13,000	11,000
Other	7,000	3,000	5,000	3,000	3,000	2,000	2,000	1,000	1,000
Health-related occupations	32,000	18,000	20,000	18,000	16,000	16,000	15,000	10,000	9,000
American Indian/Alaska Native	2,000	1,000	500	1,000	500	1,000	S	S	S
Asian	11,000	6,000	4,000	5,000	5,000	5,000	4,000	3,000	3,000
Black	8,000	4,000	5,000	5,000	4,000	3,000	2,000	1,000	2,000
Hispanic	8,000	4,000	4,000	3,000	4,000	3,000	3,000	1,000	2,000
White	30,000	17,000	19,000	17,000	15,000	13,000	13,000	9,000	8,000
Other	6,000	3,000	4,000	3,000	2,000	1,000	2,000	1,000	1,000
S&E managers	14,000	3,000	6,000	6,000	5,000	6,000	5,000	4,000	4,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	3,000	1,000	1,000	2,000	1,000	1,000	1,000	500	500

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	2,000	1,000	1,000	1,000	1,000	1,000	1,000	S	S
Hispanic	2,000	1,000	1,000	1,000	1,000	*	500	S	S
White	30,000	17,000	19,000	17,000	15,000	13,000	13,000	9,000	8,000
Other	6,000	3,000	4,000	3,000	2,000	1,000	S	S	S
S&E precollege teachers	21,000	8,000	10,000	8,000	8,000	6,000	6,000	6,000	5,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	S	1,000	500	500	S
Black	5,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000
Hispanic	4,000	2,000	2,000	1,000	2,000	1,000	1,000	1,000	S
White	20,000	8,000	9,000	8,000	7,000	6,000	6,000	6,000	5,000
Other	2,000	1,000	1,000	S	S	S	S	S	S
S&E technicians/technologists	15,000	6,000	7,000	5,000	6,000	6,000	4,000	4,000	2,000
American Indian/Alaska Native	1,000	*	S	S	S	S	S	S	S
Asian	5,000	2,000	3,000	1,000	2,000	1,000	1,000	1,000	1,000
Black	3,000	1,000	1,000	1,000	1,000	2,000	500	S	S
Hispanic	3,000	1,000	1,000	1,000	1,000	1,000	1,000	S	1,000
White	14,000	5,000	7,000	5,000	6,000	5,000	4,000	4,000	2,000
Other	2,000	1,000	1,000	1,000	S	S	S	S	S
Other S&E-related occupations	10,000	3,000	4,000	4,000	4,000	5,000	3,000	3,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	1,000	1,000	S	1,000	500
Black	2,000	S	S	S	1,000	S	S	S	S
Hispanic	2,000	1,000	1,000	S	1,000	500	500	S	S
White	10,000	2,000	4,000	3,000	4,000	5,000	3,000	3,000	3,000
Other	1,000	S	S	S	S	S	S	S	S
Non-S&E occupations	70,000	24,000	29,000	31,000	29,000	27,000	25,000	20,000	20,000
American Indian/Alaska Native	5,000	3,000	2,000	2,000	2,000	2,000	2,000	S	S
Asian	13,000	6,000	8,000	7,000	6,000	6,000	5,000	5,000	3,000
Black	16,000	6,000	9,000	7,000	6,000	7,000	5,000	4,000	2,000
Hispanic	15,000	6,000	7,000	6,000	6,000	6,000	4,000	2,000	3,000
White	63,000	22,000	28,000	29,000	26,000	24,000	24,000	20,000	19,000
Other	9,000	3,000	6,000	4,000	2,000	2,000	3,000	2,000	1,000
Art/humanities/related occupations	17,000	3,000	7,000	8,000	6,000	4,000	6,000	5,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	S	1,000	1,000	S	S
Black	3,000	500	S	S	S	S	S	S	S
Hispanic	4,000	1,000	1,000	3,000	1,000	S	S	S	S
White	15,000	3,000	7,000	7,000	6,000	3,000	6,000	4,000	3,000
Other	2,000	S	S	S	S	S	S	S	S
Management-related occupations	34,000	10,000	14,000	14,000	13,000	12,000	11,000	9,000	7,000
American Indian/Alaska Native	3,000	S	S	S	S	S	2,000	S	S
Asian	8,000	3,000	4,000	3,000	3,000	3,000	2,000	3,000	1,000
Black	7,000	3,000	4,000	3,000	3,000	2,000	3,000	1,000	1,000
Hispanic	6,000	3,000	3,000	3,000	2,000	2,000	2,000	1,000	S
White	32,000	9,000	12,000	12,000	12,000	11,000	10,000	8,000	7,000
Other	3,000	1,000	2,000	1,000	S	1,000	1,000	S	S
Non-S&E managers	26,000	6,000	9,000	10,000	11,000	10,000	10,000	7,000	7,000
American Indian/Alaska Native	1,000	500	S	S	S	S	S	S	S
Asian	4,000	2,000	1,000	2,000	2,000	1,000	2,000	1,000	1,000
Black	5,000	2,000	2,000	2,000	2,000	2,000	2,000	1,000	S
Hispanic	4,000	1,000	2,000	2,000	2,000	1,000	1,000	500	1,000

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	24,000	5,000	8,000	10,000	10,000	10,000	9,000	6,000	7,000
Other	2,000	S	S	1,000	S	500	S	500	S
Non-S&E postsecondary teachers	7,000	4,000	3,000	2,000	2,000	1,000	3,000	2,000	1,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	1,000	1,000	500	500	500	500	S	1,000	S
Black	1,000	1,000	1,000	500	*	500	500	500	S
Hispanic	2,000	2,000	1,000	500	500	500	500	S	S
White	7,000	4,000	3,000	2,000	2,000	1,000	3,000	1,000	1,000
Other	1,000	S	*	S	*	S	S	S	S
Non-S&E precollege/other teachers	21,000	9,000	10,000	9,000	9,000	9,000	8,000	6,000	5,000
American Indian/Alaska Native	1,000	1,000	S	S	S	S	S	S	S
Asian	3,000	1,000	1,000	2,000	1,000	1,000	1,000	S	S
Black	6,000	2,000	3,000	1,000	2,000	2,000	2,000	1,000	1,000
Hispanic	5,000	2,000	2,000	2,000	1,000	2,000	1,000	S	S
White	21,000	8,000	9,000	8,000	9,000	9,000	7,000	5,000	5,000
Other	2,000	1,000	S	1,000	500	S	S	S	S
Sales/marketing occupations	32,000	10,000	17,000	14,000	11,000	12,000	10,000	11,000	9,000
American Indian/Alaska Native	2,000	1,000	S	S	S	S	S	S	S
Asian	8,000	2,000	4,000	3,000	3,000	2,000	3,000	2,000	2,000
Black	5,000	2,000	2,000	3,000	2,000	3,000	2,000	2,000	S
Hispanic	5,000	2,000	2,000	2,000	2,000	2,000	2,000	1,000	1,000
White	29,000	9,000	15,000	12,000	10,000	11,000	10,000	11,000	9,000
Other	5,000	500	5,000	2,000	S	S	S	S	1,000
Social services/related occupations	17,000	9,000	8,000	8,000	6,000	5,000	4,000	4,000	3,000
American Indian/Alaska Native	2,000	2,000	500	S	S	S	S	S	S
Asian	3,000	1,000	1,000	1,000	1,000	1,000	1,000	S	S
Black	6,000	3,000	3,000	2,000	2,000	1,000	1,000	1,000	1,000
Hispanic	4,000	2,000	2,000	2,000	1,000	2,000	1,000	S	S
White	15,000	8,000	7,000	7,000	6,000	5,000	4,000	4,000	3,000
Other	2,000	1,000	1,000	1,000	1,000	S	S	S	S
Other non-S&E occupations	41,000	15,000	18,000	17,000	17,000	17,000	16,000	12,000	11,000
American Indian/Alaska Native	2,000	1,000	S	S	S	S	S	S	S
Asian	9,000	4,000	4,000	5,000	4,000	4,000	4,000	3,000	3,000
Black	10,000	3,000	5,000	3,000	4,000	4,000	3,000	2,000	1,000
Hispanic	9,000	3,000	5,000	4,000	4,000	3,000	2,000	1,000	1,000
White	37,000	13,000	17,000	16,000	15,000	15,000	15,000	12,000	11,000
Other	5,000	2,000	3,000	2,000	2,000	1,000	2,000	1,000	S
Bachelor's degrees, all occupations	69,000	23,000	36,000	29,000	31,000	30,000	27,000	24,000	19,000
American Indian/Alaska Native	5,000	3,000	3,000	2,000	2,000	2,000	1,000	1,000	S
Asian	18,000	5,000	9,000	8,000	8,000	8,000	7,000	5,000	4,000
Black	16,000	6,000	8,000	7,000	7,000	7,000	5,000	4,000	2,000
Hispanic	15,000	6,000	8,000	7,000	6,000	7,000	5,000	2,000	3,000
White	64,000	21,000	33,000	27,000	27,000	28,000	25,000	23,000	17,000
Other	10,000	4,000	6,000	5,000	3,000	2,000	3,000	2,000	1,000
S&E occupations	32,000	12,000	16,000	14,000	14,000	10,000	10,000	7,000	6,000
American Indian/Alaska Native	2,000	500	1,000	500	2,000	500	S	S	S
Asian	8,000	4,000	4,000	4,000	2,000	3,000	2,000	1,000	1,000
Black	6,000	3,000	3,000	3,000	3,000	3,000	2,000	1,000	1,000
Hispanic	6,000	2,000	4,000	3,000	2,000	3,000	1,000	1,000	1,000
White	30,000	11,000	14,000	12,000	13,000	10,000	9,000	7,000	6,000
Other	5,000	2,000	3,000	2,000	1,000	1,000	1,000	1,000	500

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Scientists	27,000	12,000	14,000	12,000	12,000	9,000	8,000	6,000	5,000
American Indian/Alaska Native	2,000	500	1,000	500	S	S	S	S	S
Asian	7,000	4,000	3,000	3,000	2,000	2,000	1,000	1,000	1,000
Black	5,000	3,000	3,000	3,000	2,000	2,000	1,000	1,000	1,000
Hispanic	5,000	2,000	3,000	2,000	1,000	2,000	1,000	1,000	500
White	25,000	11,000	12,000	11,000	11,000	8,000	7,000	6,000	5,000
Other	3,000	2,000	2,000	1,000	1,000	1,000	1,000	500	S
Biological/agricultural/other life scientists	9,000	4,000	4,000	2,000	4,000	5,000	3,000	2,000	1,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	2,000	2,000	1,000	S	1,000	S	1,000	S	S
Black	1,000	1,000	S	S	S	500	S	S	S
Hispanic	2,000	500	1,000	1,000	S	S	S	S	S
White	8,000	3,000	3,000	2,000	3,000	5,000	3,000	2,000	1,000
Other	1,000	1,000	1,000	S	S	S	S	S	S
Agricultural/food scientists	3,000	1,000	2,000	1,000	1,000	2,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	3,000	1,000	2,000	500	1,000	2,000	1,000	1,000	1,000
Other	S	S	S	S	S	S	S	S	S
Biological/medical scientists	7,000	3,000	3,000	2,000	3,000	4,000	2,000	1,000	1,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	2,000	2,000	1,000	S	1,000	S	500	S	S
Black	1,000	1,000	S	S	S	S	S	S	S
Hispanic	1,000	500	1,000	S	S	S	S	S	S
White	7,000	3,000	3,000	2,000	3,000	4,000	2,000	1,000	1,000
Other	1,000	1,000	1,000	S	S	S	S	S	S
Environmental life scientists	4,000	1,000	1,000	1,000	2,000	2,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	500	S	S	S	S	S	S	S	S
White	4,000	1,000	500	1,000	2,000	2,000	2,000	2,000	1,000
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	2,000	1,000	1,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	1,000	1,000	1,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Computer/mathematical scientists	24,000	8,000	12,000	11,000	11,000	7,000	7,000	4,000	4,000
American Indian/Alaska Native	1,000	S	1,000	S	S	S	S	S	S
Asian	6,000	3,000	3,000	3,000	2,000	2,000	1,000	1,000	1,000
Black	5,000	2,000	3,000	3,000	2,000	1,000	1,000	500	S
Hispanic	4,000	2,000	3,000	2,000	1,000	2,000	1,000	1,000	500
White	23,000	7,000	10,000	10,000	10,000	7,000	6,000	4,000	4,000
Other	2,000	1,000	2,000	1,000	1,000	1,000	1,000	S	S
Computer/information scientists	23,000	8,000	12,000	11,000	11,000	7,000	6,000	4,000	4,000
American Indian/Alaska Native	1,000	S	1,000	S	S	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Asian	6,000	3,000	3,000	3,000	2,000	2,000	1,000	1,000	1,000
Black	4,000	2,000	2,000	3,000	2,000	1,000	1,000	500	S
Hispanic	4,000	2,000	3,000	2,000	1,000	2,000	1,000	1,000	500
White	22,000	7,000	10,000	10,000	10,000	7,000	6,000	4,000	4,000
Other	3,000	1,000	2,000	1,000	1,000	1,000	500	S	S
Mathematical scientists	5,000	1,000	2,000	1,000	2,000	1,000	3,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	1,000	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	5,000	1,000	2,000	1,000	2,000	1,000	3,000	1,000	1,000
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematics/science	2,000	1,000	1,000	1,000	1,000	2,000	1,000	500	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	S	S	S	S	S	S	S
Black	1,000	S	S	S	S	S	S	S	S
Hispanic	500	*	S	S	S	S	S	S	S
White	2,000	1,000	1,000	1,000	1,000	2,000	1,000	500	1,000
Other	S	S	S	S	S	S	S	S	S
Physical/related scientists	8,000	4,000	3,000	2,000	2,000	3,000	2,000	2,000	1,000
American Indian/Alaska Native	500	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	S	500	500	S	500	500
Black	1,000	500	500	500	S	500	500	S	S
Hispanic	1,000	1,000	1,000	1,000	S	S	S	S	S
White	7,000	4,000	3,000	2,000	2,000	3,000	2,000	2,000	1,000
Other	1,000	1,000	S	S	S	S	S	S	S
Chemists, except biochemists	6,000	4,000	2,000	1,000	2,000	2,000	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	S	S	500	500	S	500	500
Black	1,000	500	S	500	S	S	*	S	S
Hispanic	1,000	500	S	S	S	S	S	S	S
White	5,000	3,000	2,000	1,000	1,000	2,000	1,000	1,000	500
Other	1,000	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	3,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	500	*	S	S	S	S	S	S	S
White	3,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	S
Other	S	S	S	S	S	S	S	S	S
Physicists/astronomers	1,000	500	S	S	500	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	*	*	S	S	S	S	S	S	S
White	1,000	500	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	2,000	1,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	*	*	S	S	S	S	S	S	S
Hispanic	1,000	500	S	S	S	S	S	S	S
White	2,000	1,000	S	S	S	S	S	S	S
Other	500	*	S	S	S	S	S	S	S
Other physical/related scientists	4,000	1,000	2,000	1,000	1,000	2,000	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S
White	3,000	1,000	1,000	1,000	1,000	2,000	1,000	1,000	S
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	8,000	5,000	5,000	2,000	2,000	2,000	2,000	2,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	S	S	S	S	S	S	S
Black	3,000	2,000	S	S	S	S	S	S	S
Hispanic	1,000	1,000	1,000	S	1,000	S	S	S	S
White	7,000	4,000	4,000	2,000	2,000	2,000	2,000	2,000	2,000
Other	S	S	S	S	S	S	S	S	S
Economists	2,000	500	500	S	500	S	500	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	500	S	S	S	S	S	S	S	S
White	1,000	500	S	S	S	S	500	S	S
Other	S	S	S	S	S	S	S	S	S
Political/related scientists	2,000	1,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	1,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	2,000	2,000	1,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	500	*	S	S	S	S	S	S	S
White	2,000	2,000	1,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Psychologists	3,000	2,000	1,000	S	1,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	1,000	500	S	S	S	S	S	S	S
White	2,000	2,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Sociologists/anthropologists	2,000	1,000	1,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	2,000	1,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other social/related scientists	6,000	3,000	5,000	2,000	2,000	1,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	S	S	S	S	S	S	S
Black	2,000	2,000	S	S	S	S	S	S	S
Hispanic	1,000	*	S	S	S	S	S	S	S
White	6,000	2,000	4,000	2,000	2,000	1,000	2,000	2,000	1,000
Other	S	S	S	S	S	S	S	S	S
Engineers	17,000	4,000	9,000	6,000	7,000	7,000	5,000	4,000	4,000
American Indian/Alaska Native	1,000	*	S	500	1,000	S	S	S	S
Asian	5,000	1,000	3,000	2,000	1,000	2,000	2,000	1,000	1,000
Black	4,000	2,000	1,000	1,000	2,000	2,000	1,000	1,000	S
Hispanic	3,000	1,000	2,000	2,000	1,000	2,000	1,000	500	1,000
White	16,000	3,000	8,000	6,000	7,000	6,000	4,000	4,000	4,000
Other	4,000	1,000	3,000	1,000	1,000	1,000	1,000	1,000	500
Aerospace/aeronautical/astronautical engineers	4,000	1,000	1,000	1,000	1,000	2,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	S	S	500	S	S	S	S
Black	1,000	*	S	S	S	S	S	S	S
Hispanic	1,000	500	500	S	S	S	S	S	S
White	3,000	1,000	1,000	1,000	1,000	2,000	1,000	1,000	1,000
Other	1,000	S	S	S	S	S	S	S	S
Chemical engineers	3,000	1,000	2,000	1,000	2,000	1,000	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	500	S	S	S	S	S	S
Black	500	*	S	S	S	S	S	S	S
Hispanic	500	*	S	S	500	S	S	S	S
White	3,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	500
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	7,000	1,000	4,000	2,000	3,000	2,000	2,000	2,000	2,000
American Indian/Alaska Native	500	S	S	S	S	S	S	S	S
Asian	1,000	500	500	500	500	1,000	1,000	500	500
Black	1,000	500	500	1,000	500	500	S	S	S
Hispanic	2,000	500	1,000	1,000	1,000	500	500	500	1,000
White	6,000	1,000	3,000	2,000	3,000	2,000	2,000	1,000	2,000
Other	3,000	500	S	S	S	S	S	1,000	S
Electrical/computer hardware engineers	7,000	2,000	4,000	3,000	2,000	2,000	2,000	1,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	1,000	2,000	1,000	1,000	1,000	2,000	500	500
Black	2,000	1,000	1,000	500	1,000	500	1,000	S	S
Hispanic	1,000	500	1,000	1,000	1,000	1,000	S	S	S
White	5,000	2,000	3,000	2,000	2,000	2,000	2,000	1,000	1,000
Other	1,000	500	S	S	S	S	S	S	S
Industrial engineers	4,000	1,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	S	S	S	S	S	S	S
Black	1,000	*	1,000	S	S	S	S	S	S
Hispanic	1,000	500	1,000	S	500	S	S	S	S
White	3,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
Other	500	S	S	S	S	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Mechanical engineers	6,000	1,000	3,000	3,000	2,000	2,000	2,000	2,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	500	500	1,000	500	1,000	500	500	500
Black	1,000	500	500	500	S	S	S	S	S
Hispanic	1,000	500	1,000	500	500	S	500	S	500
White	5,000	1,000	3,000	3,000	2,000	2,000	2,000	2,000	2,000
Other	500	500	S	500	S	S	S	S	S
Postsecondary teachers-engineering	1,000	500	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	500	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	*	*	S	S	S	S	S	S	S
White	1,000	500	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other engineers	11,000	2,000	6,000	4,000	5,000	5,000	3,000	3,000	3,000
American Indian/Alaska Native	500	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	500	1,000	S	500	S
Black	2,000	1,000	1,000	500	500	2,000	S	S	S
Hispanic	2,000	500	1,000	1,000	1,000	1,000	S	S	S
White	11,000	2,000	6,000	4,000	5,000	4,000	3,000	3,000	3,000
Other	1,000	1,000	S	S	500	S	S	S	S
S&E-related occupations	39,000	14,000	20,000	17,000	15,000	16,000	15,000	12,000	9,000
American Indian/Alaska Native	3,000	1,000	2,000	1,000	S	S	S	S	S
Asian	11,000	3,000	4,000	5,000	5,000	4,000	4,000	3,000	2,000
Black	9,000	3,000	5,000	5,000	4,000	4,000	2,000	2,000	2,000
Hispanic	7,000	3,000	3,000	3,000	4,000	3,000	3,000	1,000	2,000
White	34,000	13,000	18,000	16,000	14,000	15,000	13,000	11,000	9,000
Other	7,000	3,000	4,000	3,000	3,000	1,000	2,000	500	1,000
Health-related occupations	31,000	11,000	17,000	15,000	13,000	13,000	13,000	8,000	6,000
American Indian/Alaska Native	2,000	1,000	S	1,000	S	S	S	S	S
Asian	9,000	2,000	4,000	4,000	4,000	4,000	4,000	3,000	2,000
Black	7,000	3,000	4,000	4,000	4,000	3,000	2,000	1,000	1,000
Hispanic	6,000	3,000	3,000	2,000	3,000	2,000	2,000	1,000	2,000
White	27,000	11,000	16,000	14,000	12,000	11,000	11,000	7,000	6,000
Other	6,000	2,000	4,000	3,000	2,000	1,000	2,000	S	S
S&E managers	12,000	2,000	4,000	5,000	4,000	5,000	5,000	3,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	500	2,000	1,000	1,000	S	S	S
Black	2,000	*	S	500	1,000	S	1,000	S	S
Hispanic	1,000	500	1,000	500	1,000	S	S	S	S
White	27,000	11,000	16,000	14,000	12,000	11,000	11,000	7,000	6,000
Other	6,000	S	S	S	S	S	S	S	S
S&E precollege teachers	14,000	5,000	8,000	7,000	6,000	4,000	5,000	5,000	5,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S	S
Asian	1,000	1,000	S	S	S	S	S	S	S
Black	3,000	1,000	1,000	2,000	1,000	1,000	S	1,000	S
Hispanic	3,000	1,000	2,000	1,000	2,000	1,000	1,000	S	S
White	14,000	4,000	8,000	6,000	5,000	4,000	5,000	5,000	4,000
Other	2,000	500	1,000	S	S	S	S	S	S
S&E technicians/technologists	14,000	5,000	6,000	5,000	6,000	6,000	4,000	4,000	2,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	4,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	3,000	500	1,000	1,000	1,000	2,000	500	S	S
Hispanic	3,000	1,000	1,000	1,000	1,000	1,000	S	S	1,000
White	13,000	4,000	6,000	5,000	5,000	5,000	4,000	3,000	2,000
Other	2,000	1,000	1,000	500	S	S	S	S	S
Other S&E-related occupations	9,000	2,000	4,000	3,000	3,000	4,000	3,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	500	1,000	1,000	1,000	1,000	S	S	S
Black	1,000	S	S	S	1,000	S	S	S	S
Hispanic	2,000	1,000	1,000	S	1,000	S	500	S	S
White	8,000	2,000	3,000	3,000	3,000	3,000	3,000	3,000	2,000
Other	1,000	S	S	S	S	S	S	S	S
Non-S&E occupations	58,000	16,000	23,000	25,000	24,000	23,000	22,000	18,000	17,000
American Indian/Alaska Native	4,000	2,000	2,000	2,000	1,000	2,000	1,000	S	S
Asian	12,000	4,000	7,000	6,000	5,000	5,000	5,000	4,000	3,000
Black	14,000	4,000	6,000	5,000	5,000	5,000	4,000	4,000	2,000
Hispanic	12,000	4,000	7,000	6,000	5,000	5,000	3,000	2,000	3,000
White	53,000	14,000	22,000	23,000	21,000	21,000	20,000	18,000	16,000
Other	6,000	2,000	3,000	4,000	2,000	2,000	3,000	1,000	1,000
Art/humanities/related occupations	14,000	3,000	5,000	7,000	5,000	4,000	6,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	1,000	S	S	S	S	S
Black	2,000	500	S	S	S	S	S	S	S
Hispanic	4,000	1,000	1,000	S	S	S	S	S	S
White	12,000	3,000	4,000	6,000	5,000	3,000	6,000	3,000	2,000
Other	2,000	S	S	S	S	S	S	S	S
Management-related occupations	28,000	7,000	12,000	10,000	11,000	11,000	9,000	8,000	6,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S	S
Asian	6,000	1,000	3,000	3,000	2,000	2,000	1,000	3,000	1,000
Black	5,000	2,000	3,000	3,000	2,000	2,000	2,000	1,000	1,000
Hispanic	5,000	2,000	2,000	2,000	2,000	1,000	2,000	S	S
White	26,000	6,000	11,000	9,000	10,000	10,000	8,000	8,000	5,000
Other	3,000	1,000	2,000	S	S	1,000	1,000	S	S
Non-S&E managers	21,000	1,000	6,000	8,000	9,000	8,000	8,000	6,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	S	1,000	2,000	1,000	1,000	1,000	S	S
Black	3,000	*	2,000	1,000	1,000	1,000	S	1,000	S
Hispanic	3,000	S	2,000	1,000	1,000	1,000	1,000	S	1,000
White	20,000	1,000	6,000	8,000	9,000	8,000	8,000	6,000	6,000
Other	1,000	S	S	S	S	S	S	S	S
Non-S&E postsecondary teachers	3,000	2,000	2,000	2,000	500	500	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	S	S	S	S	S	S	S
Black	1,000	*	S	S	S	S	S	S	S
Hispanic	1,000	500	S	S	S	S	S	S	S
White	3,000	1,000	2,000	2,000	S	500	S	1,000	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	17,000	5,000	7,000	8,000	7,000	7,000	6,000	4,000	5,000
American Indian/Alaska Native	500	500	S	S	S	S	S	S	S
Asian	3,000	1,000	1,000	S	S	S	S	S	S
Black	4,000	1,000	2,000	1,000	1,000	2,000	1,000	S	1,000
Hispanic	3,000	1,000	2,000	2,000	1,000	1,000	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	16,000	4,000	6,000	7,000	7,000	6,000	6,000	4,000	5,000
Other	2,000	1,000	S	S	S	S	S	S	S
Sales/marketing occupations	28,000	8,000	14,000	12,000	10,000	10,000	10,000	10,000	9,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	7,000	2,000	4,000	2,000	3,000	2,000	2,000	2,000	2,000
Black	5,000	1,000	1,000	3,000	2,000	3,000	1,000	2,000	S
Hispanic	4,000	1,000	2,000	2,000	1,000	2,000	2,000	1,000	S
White	26,000	7,000	13,000	10,000	9,000	9,000	9,000	10,000	8,000
Other	3,000	500	2,000	S	S	S	S	S	S
Social services/related occupations	12,000	6,000	6,000	5,000	4,000	3,000	3,000	3,000	2,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S	S
Asian	2,000	1,000	S	S	S	S	S	S	S
Black	5,000	2,000	3,000	2,000	1,000	1,000	1,000	S	S
Hispanic	3,000	2,000	1,000	1,000	1,000	1,000	1,000	S	S
White	10,000	4,000	5,000	4,000	4,000	3,000	3,000	2,000	2,000
Other	1,000	500	S	S	S	S	S	S	S
Other non-S&E occupations	36,000	11,000	15,000	14,000	14,000	14,000	14,000	11,000	10,000
American Indian/Alaska Native	2,000	1,000	S	S	S	S	S	S	S
Asian	8,000	3,000	4,000	5,000	4,000	4,000	3,000	3,000	2,000
Black	9,000	3,000	4,000	3,000	4,000	3,000	3,000	2,000	1,000
Hispanic	7,000	3,000	4,000	4,000	3,000	3,000	2,000	1,000	1,000
White	34,000	10,000	14,000	13,000	13,000	12,000	13,000	10,000	9,000
Other	4,000	2,000	2,000	2,000	2,000	1,000	2,000	1,000	S
Master's degrees, all occupations	47,000	23,000	22,000	20,000	18,000	16,000	15,000	12,000	10,000
American Indian/Alaska Native	3,000	1,000	1,000	1,000	1,000	S	2,000	S	S
Asian	11,000	7,000	6,000	5,000	4,000	4,000	3,000	3,000	1,000
Black	11,000	7,000	6,000	4,000	3,000	3,000	3,000	2,000	1,000
Hispanic	9,000	5,000	4,000	4,000	4,000	3,000	3,000	1,000	1,000
White	39,000	20,000	20,000	18,000	16,000	15,000	14,000	12,000	10,000
Other	6,000	3,000	5,000	1,000	1,000	1,000	1,000	1,000	500
S&E occupations	20,000	11,000	9,000	8,000	9,000	6,000	5,000	5,000	4,000
American Indian/Alaska Native	1,000	500	S	S	S	S	S	S	S
Asian	8,000	6,000	3,000	3,000	2,000	1,000	2,000	1,000	1,000
Black	3,000	2,000	2,000	1,000	1,000	1,000	1,000	500	500
Hispanic	3,000	2,000	2,000	1,000	1,000	1,000	500	500	1,000
White	18,000	9,000	8,000	8,000	9,000	6,000	5,000	5,000	4,000
Other	2,000	1,000	1,000	1,000	1,000	500	1,000	S	500
Scientists	18,000	10,000	7,000	8,000	7,000	5,000	4,000	4,000	3,000
American Indian/Alaska Native	1,000	500	S	S	S	S	S	S	S
Asian	7,000	5,000	3,000	3,000	2,000	1,000	1,000	1,000	500
Black	3,000	2,000	2,000	1,000	1,000	1,000	1,000	500	S
Hispanic	3,000	2,000	1,000	1,000	1,000	1,000	500	500	S
White	16,000	8,000	6,000	7,000	7,000	5,000	4,000	4,000	2,000
Other	2,000	1,000	1,000	1,000	1,000	500	500	S	S
Biological/agricultural/other life scientists	5,000	3,000	2,000	2,000	2,000	2,000	2,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	500	500	S	S	S	S
Black	500	500	S	S	S	S	S	S	S
Hispanic	1,000	500	S	500	S	S	S	S	S
White	5,000	3,000	2,000	2,000	2,000	2,000	1,000	1,000	500
Other	1,000	500	S	S	S	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Agricultural/food scientists	2,000	500	1,000	500	1,000	500	1,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	S	S	S	S	S	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	500	1,000	S	1,000	500	S	S	S
Other	S	S	S	S	S	S	S	S	S
Biological/medical scientists	4,000	3,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	500	S	S	S	S
Black	500	500	S	S	S	S	S	S	S
Hispanic	1,000	500	S	500	S	S	S	S	S
White	4,000	2,000	1,000	1,000	1,000	1,000	1,000	S	S
Other	500	S	S	S	S	S	S	S	S
Environmental life scientists	2,000	1,000	1,000	S	500	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	1,000	1,000	S	500	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	2,000	1,000	1,000	500	S	S	1,000	500	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	1,000	1,000	500	S	S	1,000	500	S
Other	500	S	S	S	S	S	S	S	S
Computer/mathematical scientists	14,000	8,000	5,000	6,000	5,000	4,000	3,000	4,000	1,000
American Indian/Alaska Native	500	*	S	S	S	S	S	S	S
Asian	6,000	5,000	3,000	3,000	2,000	1,000	1,000	1,000	S
Black	3,000	2,000	1,000	1,000	1,000	1,000	500	S	S
Hispanic	2,000	2,000	1,000	1,000	500	500	S	S	S
White	12,000	5,000	5,000	5,000	5,000	3,000	3,000	4,000	1,000
Other	1,000	1,000	1,000	500	1,000	S	S	S	S
Computer/information scientists	13,000	7,000	5,000	5,000	5,000	3,000	3,000	3,000	1,000
American Indian/Alaska Native	500	S	S	S	S	S	S	S	S
Asian	6,000	5,000	3,000	3,000	2,000	1,000	1,000	1,000	S
Black	3,000	2,000	1,000	1,000	1,000	1,000	500	S	S
Hispanic	2,000	2,000	1,000	1,000	500	500	S	S	S
White	11,000	5,000	5,000	5,000	5,000	3,000	3,000	3,000	1,000
Other	1,000	1,000	1,000	500	S	S	S	S	S
Mathematical scientists	3,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	500	S	S	S	S	S	S
Black	1,000	1,000	S	S	S	S	S	S	S
Hispanic	500	*	S	S	S	S	S	S	S
White	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematics/science	3,000	1,000	2,000	1,000	1,000	1,000	2,000	1,000	1,000

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	500	500	S	S	S	S	S
Black	1,000	*	S	S	S	S	S	S	S
Hispanic	1,000	*	S	S	S	S	S	S	S
White	3,000	1,000	1,000	1,000	1,000	1,000	2,000	1,000	1,000
Other	S	S	S	S	S	S	S	S	S
Physical/related scientists	5,000	2,000	2,000	3,000	2,000	1,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	S	500	S	S	S
Black	500	500	S	S	S	S	S	S	S
Hispanic	1,000	500	S	500	S	S	S	S	S
White	5,000	2,000	2,000	3,000	2,000	1,000	1,000	1,000	1,000
Other	500	*	S	S	S	S	S	S	S
Chemists, except biochemists	3,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	S	S	S	S	S
Black	500	500	S	S	S	S	S	S	S
Hispanic	500	*	S	S	S	S	S	S	S
White	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000	S
Other	S	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	3,000	1,000	1,000	3,000	1,000	1,000	500	500	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	500	*	S	S	S	S	S	S	S
White	3,000	1,000	1,000	3,000	1,000	1,000	500	500	1,000
Other	500	S	S	S	S	S	S	S	S
Physicists/astronomers	1,000	1,000	500	S	S	1,000	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	500	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	1,000	1,000	500	S	S	1,000	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	2,000	1,000	1,000	1,000	S	S	500	500	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	S	S	S	S	S	S	S
Black	*	*	S	S	S	S	S	S	S
Hispanic	*	*	S	S	S	S	S	S	S
White	2,000	500	1,000	1,000	S	S	500	500	S
Other	S	S	S	S	S	S	S	S	S
Other physical/related scientists	1,000	1,000	1,000	1,000	1,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	500	S	S	S	S	S	S	S	S
White	1,000	1,000	1,000	S	1,000	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	10,000	5,000	4,000	4,000	3,000	3,000	2,000	2,000	1,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	S	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	2,000	1,000	2,000	S	S	S	1,000	S	S
Hispanic	1,000	1,000	1,000	1,000	S	S	S	S	S
White	9,000	5,000	3,000	4,000	3,000	3,000	2,000	2,000	1,000
Other	1,000	1,000	500	S	S	S	S	S	S
Economists	3,000	1,000	1,000	2,000	500	1,000	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	S	S	S	S	S	S	S
Black	500	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	3,000	1,000	1,000	2,000	500	1,000	1,000	1,000	S
Other	S	S	S	S	S	S	S	S	S
Political/related scientists	1,000	500	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	1,000	500	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	S	S	S	S	S	S	S
Black	500	500	S	S	S	S	S	S	S
Hispanic	500	*	S	S	S	S	S	S	S
White	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500
Other	500	S	S	S	S	S	S	S	S
Psychologists	6,000	3,000	3,000	2,000	2,000	2,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	S	S	S	S	S	S	S
Black	2,000	500	2,000	S	S	S	S	S	S
Hispanic	1,000	1,000	S	1,000	S	S	S	S	S
White	5,000	3,000	3,000	2,000	2,000	2,000	1,000	1,000	1,000
Other	500	S	500	S	S	S	S	S	S
Sociologists/anthropologists	2,000	1,000	1,000	S	S	1,000	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	1,000	500	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other social/related scientists	6,000	3,000	2,000	2,000	3,000	2,000	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	S	1,000	S	S	S	S	S
Black	1,000	S	S	S	S	S	S	S	S
Hispanic	1,000	500	S	S	S	S	S	S	S
White	5,000	3,000	1,000	2,000	3,000	2,000	S	1,000	S
Other	S	S	S	S	S	S	S	S	S
Engineers	9,000	4,000	5,000	3,000	5,000	4,000	3,000	2,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
Black	1,000	1,000	1,000	1,000	500	500	S	S	S
Hispanic	2,000	1,000	1,000	1,000	1,000	500	500	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	9,000	4,000	4,000	3,000	5,000	4,000	3,000	2,000	3,000
Other	1,000	1,000	500	500	S	S	1,000	S	*
Aerospace/aeronautical/astronautical engineers	4,000	1,000	2,000	1,000	1,000	1,000	1,000	500	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	500	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	500	*	S	S	S	S	S	S	S
White	4,000	1,000	1,000	1,000	1,000	1,000	1,000	500	2,000
Other	500	S	S	S	S	S	S	S	S
Chemical engineers	2,000	1,000	1,000	1,000	1,000	500	1,000	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	S	S	S	500	500	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	*	*	S	S	S	S	S	S	S
White	2,000	1,000	1,000	1,000	1,000	S	1,000	500	500
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	3,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	500	1,000	*	500	500	500	500
Black	500	*	S	S	S	S	S	S	S
Hispanic	1,000	1,000	500	S	S	S	S	S	S
White	3,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
Other	500	S	S	S	S	S	S	S	S
Electrical/computer hardware engineers	5,000	2,000	3,000	2,000	2,000	1,000	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	1,000	500	500	500	S
Black	1,000	1,000	500	S	S	S	S	S	S
Hispanic	1,000	500	1,000	500	S	S	S	S	S
White	4,000	2,000	3,000	2,000	2,000	1,000	1,000	1,000	1,000
Other	1,000	1,000	S	S	S	S	S	S	S
Industrial engineers	3,000	2,000	1,000	2,000	1,000	500	1,000	1,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	500	S	S	S	S	S	S
Black	500	S	S	S	S	S	S	S	S
Hispanic	1,000	500	1,000	S	S	S	S	S	S
White	2,000	1,000	1,000	2,000	1,000	500	500	1,000	S
Other	S	S	S	S	S	S	S	S	S
Mechanical engineers	4,000	2,000	1,000	1,000	1,000	3,000	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	500	*	*	500	S
Black	500	*	S	S	S	S	S	S	S
Hispanic	500	500	500	S	S	S	S	S	S
White	4,000	2,000	1,000	1,000	1,000	3,000	1,000	1,000	500
Other	500	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	1,000	1,000	S	S	500	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	500	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	1,000	1,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Other engineers	6,000	2,000	2,000	2,000	4,000	2,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	1,000	500	S	S	1,000	S
Black	1,000	500	500	S	S	S	S	S	S
Hispanic	1,000	500	500	500	S	S	S	S	S
White	6,000	2,000	2,000	1,000	4,000	2,000	2,000	1,000	1,000
Other	*	S	S	S	S	S	S	S	S
S&E-related occupations	23,000	12,000	12,000	10,000	9,000	8,000	8,000	5,000	4,000
American Indian/Alaska Native	1,000	500	S	S	S	S	S	S	S
Asian	6,000	3,000	3,000	2,000	2,000	2,000	1,000	1,000	1,000
Black	5,000	3,000	2,000	2,000	2,000	2,000	1,000	1,000	S
Hispanic	4,000	3,000	1,000	2,000	2,000	1,000	1,000	1,000	S
White	21,000	12,000	12,000	9,000	9,000	8,000	7,000	5,000	4,000
Other	3,000	2,000	1,000	1,000	1,000	1,000	500	S	S
Health-related occupations	16,000	9,000	9,000	8,000	8,000	6,000	5,000	3,000	2,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	5,000	3,000	1,000	2,000	2,000	2,000	1,000	1,000	1,000
Black	3,000	3,000	2,000	2,000	1,000	1,000	S	S	S
Hispanic	3,000	2,000	1,000	2,000	2,000	S	S	S	S
White	14,000	8,000	9,000	7,000	7,000	5,000	5,000	3,000	2,000
Other	2,000	2,000	S	S	S	S	S	S	S
S&E managers	7,000	2,000	3,000	3,000	3,000	3,000	2,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	1,000	500	S	S	S
Black	1,000	500	S	500	S	S	S	S	S
Hispanic	1,000	1,000	S	1,000	S	S	S	S	S
White	14,000	8,000	9,000	7,000	7,000	5,000	5,000	3,000	2,000
Other	2,000	S	S	S	S	S	S	S	S
S&E precollege teachers	12,000	7,000	6,000	5,000	4,000	4,000	4,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	S	S	500	S	S
Black	4,000	2,000	1,000	2,000	1,000	1,000	1,000	1,000	S
Hispanic	2,000	2,000	1,000	1,000	500	S	S	S	S
White	12,000	7,000	6,000	5,000	4,000	4,000	3,000	3,000	2,000
Other	2,000	1,000	S	S	S	S	S	S	S
S&E technicians/technologists	6,000	3,000	3,000	2,000	3,000	2,000	1,000	2,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	1,000	2,000	1,000	1,000	1,000	1,000	S	S
Black	1,000	500	500	S	S	S	S	S	S
Hispanic	1,000	500	500	S	S	S	S	S	S
White	5,000	2,000	2,000	1,000	3,000	1,000	1,000	2,000	1,000
Other	S	S	S	S	S	S	S	S	S
Other S&E-related occupations	5,000	2,000	2,000	2,000	2,000	3,000	2,000	1,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	1,000	S	S	S	S	S	S
Black	1,000	S	S	S	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S
White	5,000	2,000	2,000	2,000	2,000	3,000	1,000	1,000	3,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E occupations	38,000	17,000	18,000	16,000	14,000	13,000	12,000	10,000	7,000
American Indian/Alaska Native	3,000	1,000	1,000	1,000	S	S	2,000	S	S
Asian	7,000	4,000	4,000	3,000	3,000	3,000	3,000	2,000	1,000

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	10,000	5,000	5,000	4,000	3,000	3,000	3,000	2,000	1,000
Hispanic	7,000	3,000	3,000	3,000	3,000	3,000	2,000	1,000	500
White	32,000	15,000	16,000	15,000	13,000	12,000	11,000	9,000	7,000
Other	6,000	2,000	5,000	1,000	1,000	1,000	1,000	1,000	S
Art/humanities/related occupations	8,000	2,000	5,000	4,000	3,000	2,000	2,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	S	S	S	S	S	S	S
Black	2,000	*	S	S	S	S	S	S	S
Hispanic	1,000	1,000	S	S	S	S	S	S	S
White	8,000	2,000	5,000	4,000	3,000	2,000	2,000	3,000	2,000
Other	S	S	S	S	S	S	S	S	S
Management-related occupations	16,000	7,000	8,000	8,000	7,000	6,000	7,000	5,000	4,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S	S
Asian	5,000	3,000	3,000	1,000	2,000	2,000	2,000	1,000	S
Black	4,000	2,000	3,000	2,000	2,000	S	2,000	S	S
Hispanic	3,000	2,000	1,000	2,000	2,000	S	S	S	S
White	14,000	6,000	6,000	7,000	6,000	5,000	6,000	4,000	4,000
Other	2,000	1,000	1,000	S	S	S	S	S	S
Non-S&E managers	13,000	5,000	6,000	6,000	5,000	6,000	5,000	3,000	3,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	1,000	1,000	1,000	S	S
Black	3,000	2,000	2,000	1,000	1,000	1,000	1,000	500	S
Hispanic	2,000	1,000	1,000	1,000	1,000	1,000	1,000	S	S
White	13,000	5,000	5,000	6,000	5,000	5,000	5,000	3,000	3,000
Other	2,000	S	S	S	S	S	S	S	S
Non-S&E postsecondary teachers	6,000	4,000	2,000	2,000	2,000	1,000	3,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	S	S	S	S	S	S	S
Black	1,000	500	S	S	S	S	S	S	S
Hispanic	2,000	1,000	S	S	S	S	S	S	S
White	5,000	4,000	1,000	1,000	2,000	1,000	3,000	1,000	1,000
Other	500	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	14,000	8,000	7,000	5,000	6,000	5,000	5,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	S	S	1,000	S	S	S
Black	4,000	2,000	2,000	S	2,000	1,000	2,000	S	S
Hispanic	3,000	2,000	1,000	S	S	S	S	S	S
White	14,000	7,000	6,000	5,000	6,000	4,000	4,000	3,000	2,000
Other	1,000	1,000	S	S	S	S	S	S	S
Sales/marketing occupations	16,000	6,000	8,000	7,000	4,000	5,000	5,000	4,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	1,000	2,000	1,000	1,000	1,000	S	1,000	S
Black	3,000	2,000	1,000	S	S	S	S	S	S
Hispanic	3,000	1,000	2,000	1,000	1,000	2,000	S	S	S
White	13,000	5,000	6,000	6,000	4,000	5,000	5,000	4,000	4,000
Other	4,000	S	S	S	S	S	S	S	S
Social services/related occupations	12,000	7,000	5,000	6,000	4,000	4,000	3,000	3,000	2,000
American Indian/Alaska Native	1,000	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	S	S	S	S	S
Black	4,000	3,000	1,000	1,000	1,000	1,000	1,000	S	S
Hispanic	2,000	1,000	2,000	1,000	1,000	1,000	500	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	11,000	6,000	5,000	5,000	4,000	3,000	3,000	3,000	2,000
Other	1,000	1,000	1,000	S	S	S	S	S	S
Other non-S&E occupations	18,000	8,000	8,000	7,000	7,000	6,000	5,000	6,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	2,000	2,000	2,000	1,000	1,000	1,000	1,000	1,000
Black	4,000	1,000	3,000	1,000	500	2,000	1,000	S	S
Hispanic	3,000	1,000	1,000	2,000	2,000	1,000	1,000	S	S
White	17,000	7,000	7,000	6,000	6,000	6,000	5,000	6,000	2,000
Other	1,000	*	S	S	S	S	S	S	S
Doctorate degrees, all occupations	11,000	7,000	5,000	3,000	3,000	4,000	2,000	3,000	2,000
American Indian/Alaska Native	500	*	*	*	*	S	S	S	S
Asian	3,000	2,000	1,000	1,000	2,000	1,000	1,000	1,000	500
Black	2,000	2,000	1,000	1,000	500	1,000	500	500	*
Hispanic	2,000	1,000	1,000	1,000	1,000	1,000	500	500	500
White	10,000	6,000	4,000	3,000	3,000	4,000	2,000	3,000	2,000
Other	1,000	500	500	500	500	500	500	500	*
S&E occupations	5,000	4,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000
American Indian/Alaska Native	500	*	*	S	*	S	S	S	S
Asian	3,000	2,000	1,000	1,000	1,000	1,000	500	500	500
Black	2,000	2,000	500	500	500	500	500	500	*
Hispanic	1,000	1,000	500	500	500	500	500	500	*
White	4,000	3,000	2,000	1,000	1,000	2,000	1,000	1,000	1,000
Other	500	500	500	500	500	500	500	*	*
Scientists	5,000	4,000	2,000	2,000	2,000	2,000	1,000	1,000	1,000
American Indian/Alaska Native	500	*	*	S	*	S	S	S	S
Asian	2,000	2,000	1,000	1,000	1,000	1,000	500	500	500
Black	2,000	2,000	500	500	500	500	500	*	*
Hispanic	1,000	500	500	500	500	500	500	*	*
White	4,000	3,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Other	500	500	500	500	*	500	*	*	*
Biological/agricultural/other life scientists	3,000	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	1,000	500	500	500	*
Black	1,000	500	500	500	*	*	*	S	*
Hispanic	500	500	500	500	*	*	*	*	S
White	3,000	2,000	1,000	1,000	1,000	1,000	500	500	1,000
Other	500	*	*	*	S	*	S	S	S
Agricultural/food scientists	500	500	500	500	500	500	500	500	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	*	*	*	*	S	S	S	S
Black	*	*	S	S	S	S	S	S	S
Hispanic	*	S	*	*	S	S	S	S	S
White	500	500	500	500	500	500	500	500	*
Other	*	S	S	S	S	S	S	S	S
Biological/medical scientists	3,000	2,000	1,000	1,000	1,000	1,000	500	500	500
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	1,000	500	500	500	S
Black	500	500	*	*	*	S	S	S	S
Hispanic	1,000	500	500	*	*	*	*	S	S
White	2,000	2,000	1,000	1,000	1,000	1,000	500	500	500
Other	500	*	*	*	S	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Environmental life scientists	500	*	*	500	*	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	500	*	S	*	*	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	1,000	500	500	500	1,000	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	*	500	*	500	*	*	S	S
Black	500	*	*	*	*	*	*	S	S
Hispanic	500	*	*	*	*	S	*	S	S
White	1,000	500	500	500	500	500	500	500	500
Other	500	S	*	S	S	S	S	S	S
Computer/mathematical scientists	3,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	1,000	500	500	500	*
Black	2,000	2,000	500	*	*	*	*	*	S
Hispanic	500	*	*	*	*	*	*	S	S
White	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500
Other	500	*	*	S	*	S	S	S	S
Computer/information scientists	2,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	500	500	500	S	S
Black	500	500	*	S	S	S	S	S	S
Hispanic	500	*	*	*	S	S	S	S	S
White	1,000	1,000	1,000	500	1,000	1,000	1,000	500	500
Other	*	*	S	S	S	S	S	S	S
Mathematical scientists	1,000	500	500	500	500	500	500	500	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	500	500	500	*	S	S	S	S
Black	*	*	S	S	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S	S
White	1,000	500	500	500	500	500	500	500	*
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematics/science	2,000	2,000	500	500	1,000	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	500	500	1,000	*	*	*	S
Black	2,000	2,000	*	*	*	*	*	*	S
Hispanic	500	*	*	*	*	S	S	S	S
White	1,000	1,000	500	500	500	500	500	500	500
Other	*	S	S	S	S	S	S	S	S
Physical/related scientists	2,000	1,000	1,000	1,000	1,000	1,000	500	500	500
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	1,000	500	500	500	500	500	500	500	500
Black	500	500	*	*	*	*	*	S	S
Hispanic	500	*	*	*	*	*	*	S	S
White	2,000	1,000	1,000	1,000	500	1,000	500	500	500
Other	500	*	*	*	S	*	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Chemists, except biochemists	1,000	1,000	500	500	500	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	500	500	500	500	*	*	*
Black	500	*	*	S	*	S	S	S	S
Hispanic	500	*	*	*	S	S	S	S	S
White	1,000	500	500	500	500	500	500	500	500
Other	*	*	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	1,000	500	500	500	500	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	500	*	*	*	S	S	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	*	*	*	S	S	S	*	S	S
White	500	500	500	500	500	500	500	500	500
Other	*	S	S	S	S	S	S	S	S
Physicists/astronomers	1,000	500	500	500	500	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	500	*	500	*	*	*	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	*	*	S	S	S	S	S	S	S
White	1,000	500	500	500	500	500	500	500	500
Other	*	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	1,000	1,000	500	500	500	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	*	*	*	*	*	*	*	*
Black	500	*	*	*	*	S	*	S	S
Hispanic	500	*	*	*	*	*	S	S	S
White	1,000	1,000	500	500	500	500	500	500	500
Other	*	*	S	S	S	S	S	S	S
Other physical/related scientists	1,000	500	500	500	S	500	*	S	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	*	*	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	1,000	*	500	*	S	*	*	S	*
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500
American Indian/Alaska Native	*	*	*	S	S	S	S	S	S
Asian	1,000	1,000	500	500	500	500	*	*	S
Black	1,000	500	500	500	*	500	500	*	S
Hispanic	500	500	500	500	*	*	*	*	S
White	2,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500
Other	500	*	500	*	*	*	*	*	S
Economists	500	500	500	500	500	500	500	500	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	*	*	*	S	S	S	S	S
Black	*	*	*	S	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S	S
White	500	500	500	500	500	500	500	500	*
Other	*	S	S	S	S	S	S	S	S
Political/related scientists	500	*	*	*	S	S	*	S	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Asian	S	S	S	S	S	S	S	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	500	*	*	S	S	S	S	S	*
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	2,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500
American Indian/Alaska Native	*	S	*	S	S	S	S	S	S
Asian	1,000	1,000	500	500	500	500	*	*	S
Black	500	500	500	500	*	*	*	*	S
Hispanic	500	500	500	*	*	*	S	S	S
White	2,000	1,000	1,000	1,000	500	1,000	1,000	500	500
Other	500	*	500	S	*	S	S	S	S
Psychologists	1,000	1,000	500	1,000	500	500	1,000	500	500
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	500	*	*	*	*	*	S	S	S
Black	500	500	*	*	*	*	*	S	S
Hispanic	500	*	500	*	*	*	S	S	S
White	1,000	1,000	500	1,000	500	500	1,000	500	500
Other	500	*	*	*	*	*	S	S	S
Sociologists/anthropologists	1,000	1,000	500	*	500	*	*	*	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	*	S	S	S	S	S	S	S	S
Black	*	*	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	1,000	1,000	500	*	500	*	*	*	S
Other	*	S	S	S	S	S	S	S	S
Other social/related scientists	1,000	500	500	500	500	*	500	*	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	*	*	S	S	S	S	S	S
Black	500	*	*	S	S	S	S	S	S
Hispanic	*	S	*	S	S	S	S	S	S
White	1,000	500	500	500	*	*	500	*	S
Other	*	S	S	S	S	S	S	S	S
Engineers	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	1,000	500	500	500	500	500	500
Black	500	*	*	*	*	*	*	S	S
Hispanic	500	500	500	*	*	*	*	S	S
White	2,000	1,000	1,000	500	500	500	500	500	500
Other	500	*	*	S	S	*	S	S	S
Aerospace/aeronautical/astronautical engineers	1,000	500	500	500	500	*	*	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	S	S	*	*	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	1,000	500	500	500	*	*	*	500	500
Other	S	S	S	S	S	S	S	S	S
Chemical engineers	1,000	500	500	500	500	500	500	500	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	*	500	500	*	S	*	S	S
Black	*	*	S	S	S	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Hispanic	500	*	S	S	S	S	S	S	S
White	500	500	500	500	*	500	500	500	*
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	500	500	500	500	500	*	*	*	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	*	*	*	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	500	500	500	*	*	*	*	*	*
Other	S	S	S	S	S	S	S	S	S
Electrical/computer hardware engineers	1,000	500	500	500	500	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	500	500	500	*	500	S	S
Black	*	*	*	S	S	S	S	S	S
Hispanic	*	*	*	S	S	S	S	S	S
White	1,000	500	500	500	500	500	500	500	500
Other	*	S	S	S	S	S	S	S	S
Industrial engineers	1,000	1,000	*	*	*	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	S	*	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	1,000	S	S	S	*	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Mechanical engineers	500	500	500	500	500	500	500	500	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	500	500	500	*	S	*	*	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	500	500	500	500	500	*	*	500	*
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	1,000	500	500	500	500	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	500	*	500	500	500	500	*	*
Black	500	*	*	*	*	S	*	S	S
Hispanic	500	*	*	*	*	S	*	S	S
White	1,000	500	500	500	500	500	500	500	500
Other	*	S	S	S	S	S	S	S	S
Other engineers	1,000	500	1,000	500	500	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	500	500	500	500	*	*	S
Black	*	*	S	S	S	S	S	S	S
Hispanic	500	*	*	*	S	S	S	S	S
White	1,000	500	500	500	500	500	500	500	500
Other	*	S	S	S	S	S	S	S	S
S&E-related occupations	5,000	3,000	2,000	1,000	2,000	2,000	1,000	1,000	1,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	1,000	1,000	500	500	500	500	500	500	*
Black	1,000	500	500	500	500	*	*	*	S
Hispanic	1,000	500	*	500	*	1,000	*	S	S
White	5,000	2,000	2,000	1,000	2,000	2,000	1,000	1,000	500
Other	500	*	*	*	*	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Health-related occupations	3,000	2,000	1,000	1,000	2,000	1,000	500	500	1,000
American Indian/Alaska Native	*	S	S	S	S	S	S	S	S
Asian	1,000	500	500	500	500	*	*	*	*
Black	1,000	*	*	500	*	S	*	S	S
Hispanic	1,000	500	*	*	*	1,000	*	S	S
White	3,000	2,000	1,000	1,000	1,000	1,000	500	500	500
Other	500	*	*	*	S	S	S	S	S
S&E managers	1,000	500	500	500	500	500	500	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	*	500	500	500	*	*	*	S
Black	500	*	*	*	*	S	S	S	S
Hispanic	500	S	S	*	*	S	S	S	S
White	3,000	2,000	1,000	1,000	1,000	1,000	500	500	500
Other	500	S	S	S	*	S	S	S	S
S&E precollege teachers	3,000	500	2,000	1,000	500	1,000	500	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	*	S	S	S	S	S	S	S	S
Black	500	*	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	3,000	500	2,000	1,000	500	1,000	500	1,000	*
Other	S	S	S	S	S	S	S	S	S
S&E technicians/technologists	1,000	1,000	500	500	500	*	*	*	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	500	*	*	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	1,000	*	500	500	500	*	*	*	*
Other	S	S	S	S	S	S	S	S	S
Other S&E-related occupations	2,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	*	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E occupations	8,000	5,000	4,000	3,000	2,000	3,000	2,000	3,000	1,000
American Indian/Alaska Native	*	*	S	S	S	S	S	S	S
Asian	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000	*
Black	1,000	1,000	1,000	500	500	1,000	500	*	S
Hispanic	1,000	500	500	1,000	1,000	500	*	500	S
White	8,000	4,000	3,000	3,000	2,000	2,000	2,000	3,000	1,000
Other	1,000	500	*	*	*	*	*	S	S
Art/humanities/related occupations	1,000	1,000	1,000	1,000	500	500	500	500	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	500	*	*	S	S	S	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	1,000	500	1,000	1,000	500	500	500	500	500
Other	S	S	S	S	S	S	S	S	S
Management-related occupations	4,000	3,000	1,000	1,000	1,000	1,000	500	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Asian	1,000	*	500	500	*	500	*	500	S
Black	500	*	*	*	S	500	*	S	S
Hispanic	1,000	*	*	*	S	S	S	S	S
White	3,000	3,000	1,000	1,000	1,000	1,000	500	1,000	1,000
Other	*	S	S	S	S	S	S	S	S
Non-S&E managers	4,000	1,000	2,000	2,000	1,000	2,000	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	*	500	500	500	500	500	500	*
Black	1,000	*	*	500	*	1,000	500	*	S
Hispanic	500	*	*	*	*	*	*	*	S
White	4,000	1,000	2,000	1,000	1,000	2,000	1,000	1,000	500
Other	*	S	S	*	S	S	S	S	S
Non-S&E postsecondary teachers	3,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	500	500	500	S	S	S	S
Black	500	500	500	*	*	*	*	S	S
Hispanic	500	500	500	*	*	*	*	S	S
White	3,000	1,000	2,000	1,000	1,000	1,000	1,000	500	500
Other	500	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	2,000	500	500	1,000	500	500	S	2,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	*	S	S	S	S	S	S	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	1,000	S	S	S	S	S	S	S	S
White	2,000	*	500	1,000	500	*	S	2,000	S
Other	S	S	S	S	S	S	S	S	S
Sales/marketing occupations	3,000	2,000	500	500	1,000	500	1,000	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	*	*	*	1,000	S	*	S	S
Black	*	S	S	S	S	S	S	S	S
Hispanic	*	S	S	S	S	S	S	S	S
White	3,000	2,000	500	500	500	500	1,000	1,000	1,000
Other	S	S	S	S	S	S	S	S	S
Social services/related occupations	2,000	1,000	1,000	1,000	500	500	500	1,000	*
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	*	S	S	S	S	S	S	S
Black	1,000	500	500	500	S	S	S	S	S
Hispanic	500	S	S	S	S	S	S	S	S
White	2,000	500	1,000	1,000	500	500	*	1,000	*
Other	*	S	S	S	S	S	S	S	S
Other non-S&E occupations	2,000	1,000	1,000	1,000	1,000	1,000	500	1,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	*	*	1,000	*	500	S	S	S
Black	1,000	S	*	*	S	S	S	S	S

TABLE A-20. Standard errors for employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Hispanic	1,000	S	*	S	S	S	S	S	S
White	2,000	1,000	1,000	500	1,000	1,000	500	1,000	1,000
Other	500	S	S	S	S	S	S	S	S

* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] "Other" includes Native Hawaiian/Other Pacific Islander and non-Hispanic respondents reporting 2 or more races.

[b] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Standard errors of less than 500 are rounded up to 500 and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
All degree levels and fields[a]	1,000	1,000	1,000	3,000	500	1,000	1,000	1,000	500	1,000	1,000
Male	1,000	1,000	500	6,000	3,000	1,000	2,000	1,000	1,000	1,000	1,000
Female	500	1,000	500	500	2,000	500	1,000	1,000	1,000	2,000	1,000
S&E fields	500	500	500	2,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Male	500	500	500	4,000	2,000	1,000	1,000	500	1,000	3,000	1,000
Female	500	1,000	1,000	1,000	2,000	1,000	1,000	1,000	1,000	3,000	1,000
Sciences	1,000	1,000	2,000	2,000	1,000	1,000	500	1,000	500	1,000	1,000
Male	500	2,000	2,000	1,000	3,000	1,000	1,000	500	2,000	2,000	2,000
Female	1,000	1,000	1,000	1,000	2,000	1,000	1,000	1,000	1,000	3,000	1,000
Biological/agricultural/environmental life sciences	1,000	1,000	1,000	5,000	1,000	1,000	1,000	1,000	2,000	2,000	2,000
Male	500	1,000	2,000	7,000	2,000	1,000	1,000	2,000	2,000	4,000	2,000
Female	1,000	1,000	1,000	3,000	2,000	1,000	1,000	3,000	2,000	3,000	3,000
Agricultural/food sciences	2,000	3,000	1,000	5,000	3,000	4,000	3,000	7,000	5,000	8,000	6,000
Male	3,000	4,000	3,000	5,000	11,000	10,000	5,000	19,000	8,000	9,000	6,000
Female	4,000	6,000	5,000	5,000	1,000	2,000	3,000	9,000	7,000	13,000	14,000
Biological sciences	500	2,000	1,000	7,000	2,000	1,000	1,000	1,000	1,000	5,000	3,000
Male	2,000	3,000	4,000	5,000	3,000	1,000	1,000	4,000	3,000	4,000	2,000
Female	1,000	500	2,000	5,000	4,000	1,000	1,000	3,000	3,000	3,000	3,000
Environmental life sciences	2,000	5,000	4,000	5,000	3,000	3,000	3,000	5,000	4,000	9,000	4,000
Male	4,000	5,000	5,000	6,000	4,000	5,000	10,000	S	7,000	12,000	8,000
Female	2,000	5,000	5,000	S	3,000	7,000	6,000	4,000	10,000	22,000	8,000
Computer/mathematical sciences	500	1,000	1,000	4,000	6,000	1,000	2,000	3,000	3,000	5,000	2,000
Male	2,000	2,000	2,000	2,000	5,000	2,000	3,000	2,000	3,000	6,000	5,000
Female	2,000	3,000	1,000	3,000	5,000	2,000	2,000	3,000	2,000	4,000	5,000
Computer/information sciences	2,000	1,000	1,000	5,000	7,000	1,000	3,000	3,000	5,000	6,000	2,000
Male	1,000	3,000	2,000	2,000	4,000	3,000	4,000	4,000	5,000	8,000	5,000
Female	2,000	1,000	2,000	5,000	7,000	3,000	500	3,000	4,000	6,000	6,000
Mathematical sciences	3,000	3,000	1,000	6,000	7,000	1,000	3,000	1,000	1,000	7,000	8,000
Male	3,000	4,000	4,000	11,000	20,000	3,000	3,000	3,000	3,000	9,000	13,000
Female	3,000	5,000	5,000	7,000	5,000	3,000	2,000	5,000	2,000	11,000	4,000
Physical/related sciences	2,000	2,000	2,000	5,000	15,000	2,000	2,000	2,000	3,000	2,000	2,000
Male	1,000	2,000	2,000	6,000	14,000	2,000	1,000	3,000	3,000	5,000	4,000
Female	3,000	2,000	3,000	10,000	7,000	3,000	3,000	3,000	4,000	8,000	2,000
Chemistry, except biochemistry	2,000	3,000	2,000	7,000	17,000	2,000	3,000	3,000	4,000	3,000	8,000

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	3,000	2,000	1,000	10,000	37,000	3,000	4,000	6,000	4,000	9,000	8,000
Female	1,000	4,000	4,000	1,000	12,000	2,000	3,000	8,000	10,000	9,000	4,000
Earth/atmospheric/ocean sciences	3,000	4,000	3,000	7,000	15,000	6,000	4,000	10,000	3,000	8,000	3,000
Male	3,000	4,000	4,000	7,000	125,000	5,000	2,000	14,000	3,000	9,000	3,000
Female	2,000	9,000	6,000	S	12,000	6,000	11,000	6,000	4,000	13,000	5,000
Physics/astronomy	3,000	3,000	5,000	15,000	5,000	4,000	1,000	13,000	6,000	6,000	43,000
Male	2,000	5,000	3,000	21,000	6,000	3,000	1,000	5,000	5,000	4,000	17,000
Female	7,000	4,000	4,000	S	S	9,000	10,000	8,000	5,000	5,000	S
Other physical sciences	6,000	15,000	26,000	S	S	4,000	13,000	S	4,000	19,000	4,000
Male	8,000	4,000	6,000	S	S	25,000	26,000	S	5,000	29,000	S
Female	5,000	5,000	9,000	S	S	6,000	3,000	S	26,000	S	S
Social/related sciences	1,000	1,000	500	3,000	2,000	1,000	2,000	1,000	2,000	3,000	1,000
Male	2,000	3,000	2,000	4,000	2,000	2,000	4,000	500	2,000	6,000	2,000
Female	1,000	1,000	2,000	4,000	1,000	1,000	2,000	1,000	1,000	4,000	1,000
Economics	1,000	2,000	4,000	10,000	11,000	3,000	6,000	2,000	4,000	6,000	5,000
Male	4,000	4,000	5,000	13,000	12,000	7,000	7,000	2,000	6,000	6,000	5,000
Female	3,000	3,000	5,000	5,000	14,000	4,000	2,000	5,000	5,000	4,000	16,000
Political/related sciences	2,000	2,000	2,000	4,000	3,000	2,000	4,000	4,000	5,000	2,000	2,000
Male	2,000	2,000	5,000	8,000	10,000	4,000	4,000	3,000	5,000	3,000	2,000
Female	2,000	2,000	4,000	3,000	5,000	2,000	7,000	3,000	5,000	16,000	4,000
Psychology	2,000	1,000	2,000	3,000	1,000	1,000	1,000	1,000	1,000	6,000	1,000
Male	1,000	4,000	3,000	3,000	5,000	5,000	6,000	8,000	3,000	10,000	3,000
Female	500	2,000	3,000	3,000	2,000	2,000	2,000	2,000	2,000	9,000	2,000
Sociology/anthropology	1,000	2,000	2,000	4,000	1,000	1,000	1,000	3,000	1,000	4,000	1,000
Male	1,000	3,000	3,000	7,000	6,000	5,000	5,000	6,000	5,000	7,000	2,000
Female	1,000	2,000	2,000	5,000	1,000	1,000	1,000	4,000	3,000	3,000	4,000
Other social sciences	1,000	1,000	3,000	6,000	2,000	2,000	4,000	2,000	4,000	3,000	5,000
Male	3,000	4,000	8,000	11,000	6,000	5,000	6,000	8,000	2,000	3,000	4,000
Female	1,000	3,000	4,000	6,000	3,000	2,000	2,000	1,000	4,000	27,000	3,000
Engineering	1,000	500	1,000	2,000	5,000	3,000	2,000	1,000	2,000	1,000	1,000
Male	500	1,000	1,000	2,000	8,000	2,000	3,000	5,000	1,000	2,000	2,000
Female	2,000	1,000	1,000	9,000	18,000	3,000	3,000	5,000	2,000	5,000	4,000
Aerospace/related engineering	3,000	5,000	5,000	22,000	59,000	2,000	2,000	S	7,000	5,000	S
Male	4,000	5,000	4,000	26,000	S	6,000	10,000	S	6,000	4,000	S

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	15,000	15,000	8,000	S	S	7,000	1,000	S	29,000	29,000	S
Chemical engineering	3,000	3,000	3,000	12,000	33,000	6,000	9,000	2,000	2,000	6,000	5,000
Male	3,000	2,000	3,000	12,000	3,000	5,000	6,000	S	1,000	3,000	10,000
Female	1,000	2,000	2,000	S	S	3,000	2,000	S	4,000	12,000	S
Civil/architectural engineering	2,000	2,000	1,000	4,000	12,000	12,000	3,000	4,000	2,000	3,000	2,000
Male	500	2,000	2,000	9,000	14,000	7,000	3,000	S	3,000	3,000	2,000
Female	2,000	2,000	3,000	S	S	14,000	12,000	S	2,000	3,000	4,000
Electrical/computer engineering	2,000	500	1,000	6,000	8,000	2,000	3,000	9,000	2,000	2,000	6,000
Male	500	1,000	2,000	9,000	7,000	5,000	3,000	15,000	2,000	3,000	6,000
Female	2,000	4,000	3,000	S	S	7,000	18,000	8,000	10,000	13,000	S
Industrial engineering	3,000	2,000	2,000	25,000	S	14,000	7,000	S	8,000	8,000	11,000
Male	2,000	2,000	2,000	S	S	20,000	1,000	S	6,000	7,000	S
Female	8,000	9,000	10,000	S	S	500	10,000	S	19,000	S	S
Mechanical engineering	2,000	2,000	1,000	18,000	12,000	9,000	7,000	12,000	3,000	5,000	8,000
Male	1,000	1,000	500	17,000	11,000	5,000	5,000	11,000	3,000	5,000	8,000
Female	5,000	5,000	3,000	S	S	6,000	16,000	S	16,000	19,000	S
Other engineering	2,000	1,000	3,000	13,000	7,000	6,000	4,000	7,000	2,000	5,000	1,000
Male	2,000	3,000	2,000	12,000	8,000	2,000	7,000	13,000	4,000	5,000	4,000
Female	4,000	5,000	3,000	S	S	3,000	9,000	S	5,000	3,000	6,000
S&E-related fields	500	500	2,000	3,000	1,000	1,000	2,000	1,000	2,000	2,000	2,000
Male	1,000	500	500	8,000	2,000	2,000	4,000	2,000	2,000	5,000	4,000
Female	1,000	1,000	500	4,000	2,000	2,000	1,000	1,000	1,000	2,000	1,000
Health	1,000	500	1,000	4,000	2,000	1,000	3,000	1,000	1,000	2,000	2,000
Male	2,000	1,000	2,000	11,000	5,000	7,000	9,000	11,000	3,000	6,000	3,000
Female	2,000	500	500	3,000	2,000	1,000	1,000	1,000	1,000	3,000	1,000
Science/mathematics teacher education	1,000	4,000	4,000	8,000	7,000	1,000	4,000	1,000	4,000	4,000	5,000
Male	2,000	4,000	14,000	S	S	2,000	11,000	1,000	10,000	S	S
Female	1,000	4,000	2,000	S	S	1,000	6,000	1,000	16,000	S	S
Technology/technical fields	2,000	1,000	1,000	6,000	7,000	7,000	12,000	7,000	7,000	7,000	4,000
Male	2,000	500	2,000	9,000	7,000	6,000	14,000	6,000	7,000	12,000	5,000
Female	6,000	7,000	9,000	S	S	S	S	S	S	S	S
Other S&E-related fields	3,000	3,000	4,000	7,000	13,000	5,000	4,000	S	5,000	8,000	5,000
Male	4,000	3,000	3,000	5,000	S	5,000	5,000	S	6,000	S	5,000
Female	3,000	4,000	4,000	7,000	S	24,000	S	S	8,000	S	9,000

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Non-S&E fields	1,000	2,000	1,000	2,000	2,000	500	1,000	1,000	1,000	3,000	1,000
Male	1,000	2,000	1,000	3,000	3,000	1,000	2,000	1,000	2,000	3,000	2,000
Female	1,000	1,000	2,000	6,000	2,000	1,000	2,000	1,000	1,000	4,000	2,000
Arts/humanities	1,000	3,000	2,000	16,000	6,000	2,000	1,000	2,000	5,000	10,000	5,000
Male	3,000	4,000	1,000	15,000	2,000	4,000	2,000	5,000	6,000	8,000	10,000
Female	1,000	4,000	5,000	9,000	2,000	2,000	2,000	3,000	6,000	S	3,000
Education, except science/mathematics education teacher	1,000	3,000	3,000	10,000	3,000	1,000	3,000	1,000	3,000	11,000	5,000
Male	500	4,000	5,000	15,000	3,000	2,000	7,000	2,000	7,000	7,000	6,000
Female	1,000	3,000	4,000	7,000	7,000	1,000	2,000	1,000	6,000	18,000	4,000
Management/administration	1,000	2,000	500	2,000	2,000	3,000	7,000	3,000	1,000	3,000	3,000
Male	1,000	2,000	2,000	4,000	10,000	5,000	4,000	5,000	3,000	3,000	2,000
Female	1,000	2,000	3,000	3,000	4,000	2,000	3,000	2,000	2,000	5,000	6,000
Sales/marketing	4,000	4,000	6,000	4,000	S	4,000	4,000	S	S	S	S
Male	8,000	6,000	6,000	S	S	3,000	S	S	S	S	S
Female	6,000	6,000	5,000	S	S	S	S	S	S	S	S
Social services/related	1,000	2,000	1,000	5,000	500	2,000	2,000	5,000	2,000	7,000	3,000
Male	2,000	3,000	8,000	6,000	4,000	2,000	3,000	3,000	3,000	S	4,000
Female	1,000	1,000	3,000	7,000	1,000	5,000	4,000	7,000	3,000	S	3,000
Other non-S&E fields	3,000	3,000	3,000	8,000	3,000	2,000	4,000	2,000	3,000	6,000	2,000
Male	3,000	4,000	5,000	3,000	8,000	3,000	5,000	4,000	4,000	7,000	3,000
Female	2,000	3,000	4,000	5,000	3,000	2,000	4,000	3,000	3,000	11,000	1,000
Bachelor's degrees	500	1,000	500	2,000	1,000	1,000	1,000	1,000	500	2,000	500
Male	500	500	1,000	4,000	2,000	1,000	3,000	1,000	1,000	2,000	500
Female	500	1,000	1,000	2,000	1,000	1,000	1,000	1,000	1,000	3,000	1,000
S&E fields	500	1,000	500	2,000	1,000	500	2,000	1,000	500	3,000	500
Male	1,000	500	1,000	2,000	4,000	1,000	2,000	1,000	1,000	2,000	500
Female	1,000	1,000	1,000	3,000	1,000	500	1,000	1,000	4,000	2,000	1,000
Sciences	500	1,000	1,000	1,000	2,000	1,000	2,000	1,000	1,000	3,000	1,000
Male	1,000	500	1,000	1,000	3,000	3,000	2,000	1,000	1,000	500	2,000
Female	500	1,000	500	1,000	1,000	500	1,000	1,000	1,000	2,000	1,000
Biological/agricultural/environmental life sciences	1,000	1,000	1,000	5,000	3,000	1,000	1,000	3,000	2,000	4,000	2,000
Male	2,000	1,000	1,000	5,000	6,000	2,000	3,000	2,000	1,000	5,000	3,000
Female	1,000	3,000	1,000	4,000	2,000	2,000	2,000	3,000	3,000	4,000	3,000
Agricultural/food sciences	3,000	2,000	4,000	5,000	S	3,000	4,000	7,000	5,000	9,000	6,000

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	3,000	4,000	4,000	6,000	S	7,000	S	S	7,000	12,000	6,000
Female	5,000	6,000	6,000	5,000	S	9,000	8,000	S	10,000	S	S
Biological sciences	1,000	2,000	1,000	7,000	1,000	1,000	2,000	1,000	3,000	4,000	3,000
Male	2,000	2,000	3,000	8,000	7,000	2,000	3,000	1,000	2,000	5,000	2,000
Female	1,000	2,000	1,000	5,000	4,000	2,000	2,000	4,000	2,000	3,000	2,000
Environmental life sciences	2,000	5,000	5,000	S	5,000	3,000	7,000	2,000	5,000	12,000	6,000
Male	4,000	6,000	6,000	S	S	5,000	S	S	8,000	13,000	10,000
Female	2,000	4,000	6,000	S	S	3,000	S	S	12,000	S	8,000
Computer/mathematical sciences	500	1,000	3,000	5,000	5,000	500	2,000	2,000	2,000	2,000	1,000
Male	2,000	2,000	2,000	4,000	3,000	3,000	3,000	4,000	4,000	2,000	3,000
Female	5,000	3,000	3,000	6,000	5,000	3,000	8,000	4,000	3,000	5,000	6,000
Computer/information sciences	2,000	2,000	1,000	4,000	9,000	3,000	3,000	1,000	3,000	3,000	1,000
Male	1,000	2,000	1,000	17,000	5,000	4,000	3,000	5,000	2,000	5,000	4,000
Female	2,000	3,000	3,000	5,000	7,000	3,000	3,000	3,000	6,000	9,000	6,000
Mathematical sciences	3,000	2,000	4,000	6,000	6,000	3,000	7,000	3,000	3,000	4,000	8,000
Male	2,000	4,000	3,000	10,000	19,000	3,000	5,000	3,000	5,000	2,000	10,000
Female	3,000	5,000	6,000	S	6,000	4,000	8,000	4,000	5,000	10,000	3,000
Physical/related sciences	1,000	3,000	2,000	3,000	20,000	2,000	5,000	5,000	2,000	7,000	3,000
Male	3,000	3,000	4,000	4,000	33,000	4,000	2,000	1,000	4,000	10,000	3,000
Female	1,000	4,000	2,000	2,000	10,000	3,000	4,000	7,000	2,000	17,000	3,000
Chemistry, except biochemistry	1,000	3,000	4,000	13,000	21,000	2,000	3,000	3,000	4,000	3,000	9,000
Male	3,000	3,000	4,000	S	S	6,000	2,000	2,000	5,000	9,000	10,000
Female	4,000	2,000	4,000	S	15,000	3,000	3,000	6,000	16,000	S	S
Earth/atmospheric/ocean sciences	2,000	5,000	6,000	6,000	S	6,000	13,000	8,000	5,000	6,000	7,000
Male	3,000	6,000	7,000	6,000	S	6,000	6,000	7,000	2,000	8,000	4,000
Female	3,000	10,000	7,000	S	S	10,000	5,000	S	5,000	S	S
Physics/astronomy	6,000	2,000	3,000	S	S	3,000	1,000	17,000	18,000	28,000	S
Male	3,000	4,000	5,000	S	S	3,000	1,000	S	17,000	16,000	S
Female	11,000	13,000	11,000	S	S	6,000	6,000	S	S	S	S
Other physical sciences	6,000	13,000	23,000	S	S	S	S	S	9,000	S	S
Male	14,000	3,000	3,000	S	S	S	S	S	S	S	S
Female	4,000	5,000	10,000	S	S	S	S	S	S	S	S
Social/related sciences	500	1,000	2,000	2,000	1,000	500	1,000	1,000	1,000	3,000	1,000
Male	2,000	2,000	1,000	3,000	3,000	3,000	2,000	2,000	2,000	4,000	2,000

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	1,000	1,000	1,000	3,000	500	1,000	1,000	2,000	2,000	3,000	2,000
Economics	3,000	2,000	1,000	13,000	11,000	2,000	8,000	4,000	7,000	8,000	4,000
Male	4,000	5,000	5,000	15,000	19,000	7,000	10,000	4,000	8,000	6,000	4,000
Female	2,000	2,000	3,000	S	S	4,000	S	S	9,000	3,000	S
Political/related sciences	2,000	3,000	3,000	5,000	4,000	3,000	9,000	3,000	2,000	7,000	4,000
Male	4,000	2,000	4,000	10,000	12,000	3,000	23,000	2,000	1,000	16,000	2,000
Female	3,000	2,000	3,000	3,000	6,000	2,000	13,000	3,000	5,000	8,000	3,000
Psychology	500	1,000	2,000	4,000	1,000	1,000	3,000	1,000	2,000	8,000	1,000
Male	3,000	2,000	5,000	7,000	5,000	5,000	2,000	6,000	5,000	6,000	2,000
Female	1,000	2,000	2,000	8,000	2,000	1,000	1,000	1,000	1,000	8,000	1,000
Sociology/anthropology	1,000	1,000	2,000	4,000	1,000	4,000	2,000	3,000	1,000	4,000	2,000
Male	2,000	3,000	3,000	8,000	5,000	3,000	2,000	4,000	6,000	9,000	2,000
Female	1,000	1,000	1,000	6,000	500	2,000	2,000	4,000	3,000	1,000	4,000
Other social sciences	2,000	1,000	3,000	8,000	3,000	2,000	3,000	2,000	2,000	4,000	4,000
Male	4,000	5,000	2,000	14,000	8,000	4,000	S	6,000	5,000	5,000	9,000
Female	2,000	3,000	4,000	7,000	3,000	2,000	3,000	3,000	5,000	S	2,000
Engineering	500	1,000	1,000	3,000	3,000	2,000	5,000	2,000	2,000	2,000	1,000
Male	1,000	2,000	500	4,000	5,000	4,000	6,000	6,000	2,000	2,000	1,000
Female	3,000	2,000	2,000	11,000	11,000	5,000	5,000	7,000	5,000	4,000	2,000
Aerospace/related engineering	3,000	5,000	6,000	S	S	10,000	13,000	S	7,000	6,000	S
Male	3,000	6,000	7,000	S	S	3,000	5,000	S	7,000	6,000	S
Female	11,000	20,000	3,000	S	S	S	S	S	9,000	10,000	S
Chemical engineering	3,000	4,000	3,000	S	S	8,000	2,000	S	1,000	5,000	5,000
Male	3,000	3,000	3,000	S	S	2,000	3,000	S	2,000	2,000	S
Female	3,000	2,000	2,000	S	S	S	S	S	10,000	S	S
Civil/architectural engineering	2,000	3,000	3,000	4,000	S	14,000	19,000	S	1,000	4,000	2,000
Male	3,000	1,000	2,000	7,000	S	18,000	S	S	3,000	4,000	2,000
Female	2,000	2,000	3,000	S	S	S	S	S	3,000	S	5,000
Electrical/computer engineering	1,000	500	2,000	10,000	9,000	4,000	4,000	7,000	3,000	5,000	4,000
Male	500	1,000	2,000	5,000	8,000	2,000	4,000	17,000	4,000	5,000	6,000
Female	5,000	3,000	3,000	S	S	S	S	S	9,000	4,000	S
Industrial engineering	2,000	3,000	3,000	S	S	6,000	S	S	6,000	6,000	S
Male	3,000	3,000	3,000	S	S	S	S	S	S	S	S
Female	7,000	14,000	15,000	S	S	S	S	S	S	S	S

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Mechanical engineering	2,000	2,000	2,000	18,000	19,000	8,000	23,000	11,000	4,000	5,000	4,000
Male	2,000	2,000	2,000	19,000	16,000	13,000	17,000	S	4,000	5,000	6,000
Female	3,000	6,000	5,000	S	S	7,000	S	S	13,000	S	S
Other engineering	2,000	2,000	3,000	14,000	S	8,000	7,000	S	4,000	6,000	1,000
Male	2,000	3,000	1,000	13,000	S	7,000	10,000	S	4,000	7,000	3,000
Female	3,000	2,000	2,000	S	S	S	S	S	6,000	S	S
S&E-related fields	500	500	2,000	4,000	3,000	1,000	2,000	1,000	3,000	3,000	1,000
Male	1,000	3,000	1,000	5,000	8,000	2,000	6,000	3,000	3,000	3,000	4,000
Female	1,000	500	1,000	2,000	2,000	500	2,000	2,000	2,000	4,000	2,000
Health	1,000	1,000	3,000	2,000	2,000	3,000	2,000	2,000	3,000	2,000	2,000
Male	2,000	2,000	4,000	7,000	6,000	7,000	7,000	S	6,000	4,000	6,000
Female	500	500	1,000	2,000	2,000	3,000	2,000	2,000	2,000	4,000	2,000
Science/mathematics teacher education	2,000	5,000	6,000	S	S	1,000	S	1,000	9,000	S	S
Male	3,000	13,000	9,000	S	S	4,000	S	4,000	S	S	S
Female	3,000	3,000	3,000	S	S	1,000	S	1,000	S	S	S
Technology/technical fields	2,000	3,000	2,000	6,000	8,000	7,000	14,000	11,000	3,000	13,000	4,000
Male	2,000	3,000	1,000	8,000	8,000	7,000	S	S	4,000	14,000	5,000
Female	4,000	4,000	9,000	S	S	S	S	S	S	S	S
Other S&E-related fields	4,000	4,000	4,000	8,000	S	20,000	S	S	5,000	S	6,000
Male	3,000	3,000	2,000	8,000	S	S	S	S	6,000	S	7,000
Female	3,000	4,000	4,000	S	S	S	S	S	S	S	S
Non-S&E fields	1,000	2,000	500	6,000	2,000	1,000	500	1,000	2,000	4,000	3,000
Male	2,000	1,000	2,000	10,000	2,000	1,000	3,000	2,000	3,000	4,000	3,000
Female	1,000	2,000	2,000	7,000	4,000	1,000	2,000	2,000	3,000	7,000	2,000
Arts/humanities	2,000	3,000	3,000	18,000	4,000	1,000	1,000	2,000	5,000	13,000	9,000
Male	4,000	4,000	1,000	11,000	2,000	2,000	2,000	3,000	5,000	9,000	8,000
Female	2,000	6,000	6,000	8,000	2,000	3,000	4,000	2,000	6,000	S	S
Education, except science/mathematics education teacher	1,000	4,000	5,000	S	4,000	1,000	S	1,000	4,000	S	3,000
Male	1,000	7,000	11,000	S	S	2,000	S	2,000	S	S	S
Female	2,000	7,000	9,000	S	9,000	2,000	S	2,000	4,000	S	4,000
Management/administration	500	2,000	2,000	7,000	7,000	3,000	5,000	2,000	6,000	5,000	5,000
Male	2,000	2,000	1,000	18,000	5,000	6,000	8,000	2,000	4,000	5,000	10,000
Female	2,000	3,000	4,000	S	9,000	1,000	4,000	5,000	7,000	S	6,000
Sales/marketing	4,000	5,000	4,000	S	S	S	S	S	S	S	S

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	6,000	6,000	8,000	S	S	S	S	S	S	S	S
Female	7,000	8,000	7,000	S	S	S	S	S	S	S	S
Social services/related	3,000	4,000	3,000	S	S	S	S	S	8,000	S	S
Male	4,000	7,000	6,000	S	S	S	S	S	S	S	S
Female	6,000	6,000	10,000	S	S	S	S	S	S	S	S
Other non-S&E fields	2,000	3,000	3,000	9,000	6,000	1,000	2,000	2,000	3,000	6,000	2,000
Male	2,000	5,000	6,000	S	S	5,000	S	S	7,000	5,000	7,000
Female	1,000	2,000	4,000	S	5,000	2,000	S	2,000	4,000	S	3,000
Master's degrees	500	500	2,000	2,000	2,000	1,000	2,000	1,000	1,000	1,000	2,000
Male	1,000	500	1,000	4,000	2,000	1,000	2,000	1,000	500	2,000	1,000
Female	500	1,000	1,000	1,000	2,000	500	1,000	1,000	2,000	4,000	1,000
S&E fields	2,000	1,000	2,000	5,000	2,000	1,000	2,000	1,000	2,000	1,000	3,000
Male	1,000	1,000	1,000	4,000	5,000	2,000	3,000	2,000	1,000	2,000	3,000
Female	1,000	1,000	3,000	4,000	1,000	500	1,000	1,000	3,000	5,000	2,000
Sciences	1,000	2,000	2,000	2,000	1,000	1,000	1,000	2,000	2,000	2,000	1,000
Male	1,000	3,000	1,000	6,000	5,000	3,000	3,000	2,000	4,000	4,000	1,000
Female	1,000	2,000	4,000	4,000	1,000	1,000	1,000	2,000	2,000	5,000	4,000
Biological/agricultural/environmental life sciences	1,000	2,000	4,000	9,000	4,000	2,000	2,000	3,000	2,000	5,000	3,000
Male	2,000	4,000	6,000	12,000	6,000	2,000	3,000	5,000	2,000	5,000	3,000
Female	3,000	3,000	1,000	S	3,000	3,000	2,000	3,000	7,000	7,000	8,000
Agricultural/food sciences	2,000	11,000	10,000	S	S	5,000	8,000	S	4,000	S	S
Male	3,000	9,000	12,000	S	S	6,000	6,000	S	S	S	S
Female	10,000	12,000	5,000	S	S	2,000	S	S	S	S	S
Biological sciences	1,000	2,000	3,000	15,000	5,000	2,000	4,000	3,000	4,000	4,000	5,000
Male	2,000	7,000	6,000	S	7,000	2,000	5,000	5,000	3,000	5,000	3,000
Female	2,000	3,000	1,000	S	6,000	1,000	2,000	3,000	10,000	9,000	10,000
Environmental life sciences	4,000	10,000	12,000	S	S	2,000	S	S	8,000	18,000	S
Male	5,000	16,000	18,000	S	S	S	S	S	8,000	S	S
Female	6,000	6,000	15,000	S	S	S	S	S	S	S	S
Computer/mathematical sciences	1,000	2,000	1,000	8,000	6,000	2,000	1,000	6,000	7,000	10,000	4,000
Male	1,000	1,000	1,000	18,000	13,000	3,000	2,000	6,000	9,000	9,000	7,000
Female	4,000	3,000	2,000	S	10,000	1,000	1,000	7,000	1,000	12,000	9,000
Computer/information sciences	2,000	2,000	2,000	8,000	10,000	3,000	3,000	5,000	7,000	12,000	6,000
Male	3,000	1,000	1,000	S	16,000	4,000	7,000	2,000	11,000	12,000	10,000

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	4,000	3,000	3,000	S	14,000	1,000	1,000	11,000	3,000	15,000	10,000
Mathematical sciences	3,000	3,000	3,000	S	S	4,000	6,000	4,000	8,000	20,000	12,000
Male	2,000	4,000	4,000	S	S	4,000	7,000	2,000	10,000	S	S
Female	3,000	9,000	8,000	S	S	3,000	6,000	6,000	9,000	S	S
Physical/related sciences	2,000	2,000	2,000	8,000	20,000	4,000	1,000	4,000	4,000	4,000	7,000
Male	3,000	2,000	5,000	11,000	S	6,000	6,000	6,000	3,000	5,000	9,000
Female	5,000	7,000	7,000	S	S	8,000	1,000	11,000	4,000	6,000	11,000
Chemistry, except biochemistry	3,000	2,000	2,000	S	S	9,000	1,000	6,000	4,000	S	4,000
Male	3,000	4,000	4,000	S	S	10,000	4,000	S	S	S	S
Female	4,000	7,000	8,000	S	S	12,000	1,000	10,000	6,000	S	S
Earth/atmospheric/ocean sciences	2,000	5,000	3,000	S	S	11,000	9,000	4,000	5,000	5,000	8,000
Male	3,000	3,000	5,000	S	S	7,000	3,000	2,000	5,000	5,000	8,000
Female	6,000	16,000	11,000	S	S	13,000	4,000	S	18,000	S	S
Physics/astronomy	5,000	6,000	9,000	S	S	4,000	3,000	14,000	S	S	S
Male	5,000	5,000	11,000	S	S	3,000	3,000	13,000	S	S	S
Female	21,000	18,000	7,000	S	S	18,000	7,000	S	S	S	S
Other physical sciences	16,000	S	S	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Social/related sciences	2,000	1,000	3,000	5,000	1,000	3,000	1,000	2,000	5,000	2,000	3,000
Male	3,000	4,000	4,000	6,000	3,000	5,000	5,000	3,000	5,000	7,000	2,000
Female	1,000	1,000	4,000	3,000	1,000	2,000	2,000	2,000	4,000	10,000	3,000
Economics	9,000	7,000	11,000	S	35,000	7,000	14,000	6,000	16,000	20,000	S
Male	10,000	16,000	15,000	S	S	14,000	23,000	S	22,000	S	S
Female	10,000	13,000	11,000	S	S	10,000	2,000	S	23,000	S	S
Political/related sciences	4,000	6,000	11,000	S	10,000	4,000	5,000	5,000	8,000	8,000	8,000
Male	3,000	11,000	11,000	S	S	13,000	S	S	7,000	5,000	8,000
Female	6,000	9,000	13,000	S	24,000	3,000	4,000	S	18,000	S	14,000
Psychology	1,000	1,000	3,000	5,000	2,000	2,000	5,000	1,000	3,000	16,000	2,000
Male	4,000	6,000	7,000	9,000	3,000	5,000	4,000	3,000	5,000	S	2,000
Female	1,000	1,000	3,000	3,000	1,000	2,000	3,000	2,000	4,000	14,000	3,000
Sociology/anthropology	3,000	7,000	15,000	S	6,000	9,000	9,000	18,000	11,000	4,000	3,000
Male	6,000	7,000	13,000	S	S	15,000	16,000	S	11,000	S	S
Female	3,000	8,000	13,000	S	S	9,000	10,000	S	18,000	S	12,000

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Other social sciences	5,000	6,000	4,000	S	4,000	4,000	6,000	3,000	14,000	11,000	5,000
Male	10,000	17,000	5,000	S	S	13,000	19,000	6,000	26,000	S	S
Female	5,000	4,000	9,000	S	5,000	5,000	5,000	4,000	15,000	S	8,000
Engineering	500	1,000	2,000	6,000	4,000	5,000	1,000	6,000	2,000	3,000	3,000
Male	1,000	1,000	1,000	4,000	9,000	9,000	2,000	20,000	3,000	3,000	3,000
Female	2,000	2,000	3,000	S	S	4,000	7,000	S	3,000	13,000	3,000
Aerospace/related engineering	3,000	7,000	7,000	S	S	5,000	11,000	S	4,000	3,000	S
Male	2,000	7,000	8,000	S	S	7,000	7,000	S	5,000	4,000	S
Female	4,000	S	S	S	S	S	S	S	S	S	S
Chemical engineering	8,000	5,000	5,000	S	S	11,000	500	S	S	S	S
Male	5,000	6,000	6,000	S	S	500	S	S	S	S	S
Female	2,000	5,000	5,000	S	S	S	S	S	S	S	S
Civil/architectural engineering	2,000	3,000	3,000	28,000	S	6,000	2,000	S	3,000	8,000	3,000
Male	2,000	3,000	3,000	13,000	S	13,000	2,000	S	5,000	4,000	6,000
Female	5,000	9,000	8,000	S	S	S	S	S	5,000	S	5,000
Electrical/computer engineering	2,000	1,000	1,000	11,000	9,000	3,000	3,000	S	5,000	5,000	S
Male	1,000	1,000	2,000	15,000	12,000	3,000	3,000	S	5,000	5,000	S
Female	3,000	3,000	2,000	S	S	S	S	S	6,000	S	S
Industrial engineering	3,000	3,000	3,000	S	S	33,000	S	S	12,000	S	S
Male	3,000	4,000	4,000	S	S	S	S	S	7,000	S	S
Female	12,000	9,000	8,000	S	S	S	S	S	S	S	S
Mechanical engineering	2,000	2,000	2,000	S	S	15,000	25,000	S	5,000	11,000	S
Male	2,000	2,000	2,000	S	S	20,000	26,000	S	5,000	11,000	S
Female	5,000	5,000	5,000	S	S	S	S	S	S	S	S
Other engineering	3,000	3,000	1,000	27,000	S	4,000	12,000	S	3,000	7,000	7,000
Male	3,000	1,000	2,000	24,000	S	5,000	8,000	S	5,000	8,000	9,000
Female	3,000	5,000	2,000	S	S	7,000	S	S	8,000	S	S
S&E-related fields	2,000	2,000	3,000	4,000	2,000	1,000	3,000	1,000	2,000	2,000	4,000
Male	3,000	3,000	3,000	14,000	11,000	1,000	7,000	1,000	5,000	7,000	5,000
Female	1,000	2,000	3,000	7,000	3,000	1,000	3,000	1,000	3,000	3,000	2,000
Health	3,000	1,000	2,000	6,000	2,000	2,000	5,000	1,000	3,000	2,000	3,000
Male	3,000	4,000	6,000	23,000	6,000	8,000	7,000	8,000	7,000	6,000	9,000
Female	500	2,000	3,000	8,000	2,000	2,000	6,000	2,000	3,000	4,000	2,000
Science/mathematics teacher education	2,000	7,000	9,000	S	S	2,000	8,000	1,000	S	S	S

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	3,000	8,000	S	S	S	1,000	S	1,000	S	S	S
Female	2,000	13,000	S	S	S	2,000	S	1,000	S	S	S
Technology/technical fields	3,000	7,000	6,000	S	S	6,000	S	S	S	S	S
Male	3,000	5,000	5,000	S	S	S	S	S	S	S	S
Female	10,000	15,000	13,000	S	S	S	S	S	S	S	S
Other S&E-related fields	3,000	4,000	3,000	9,000	S	4,000	S	S	8,000	S	8,000
Male	6,000	7,000	5,000	11,000	S	S	S	S	8,000	S	8,000
Female	2,000	8,000	9,000	S	S	S	S	S	12,000	S	S
Non-S&E fields	500	2,000	2,000	2,000	2,000	1,000	2,000	1,000	2,000	4,000	2,000
Male	2,000	3,000	2,000	6,000	4,000	1,000	1,000	1,000	2,000	2,000	3,000
Female	1,000	4,000	1,000	3,000	2,000	1,000	2,000	1,000	2,000	3,000	3,000
Arts/humanities	3,000	7,000	9,000	23,000	S	4,000	3,000	4,000	8,000	S	S
Male	5,000	12,000	10,000	S	S	7,000	S	1,000	S	S	S
Female	5,000	6,000	9,000	S	S	5,000	10,000	5,000	S	S	S
Education, except science/mathematics education teacher	1,000	7,000	4,000	8,000	4,000	1,000	4,000	1,000	4,000	9,000	2,000
Male	1,000	5,000	6,000	16,000	S	1,000	3,000	1,000	8,000	S	10,000
Female	1,000	4,000	7,000	S	8,000	1,000	3,000	1,000	2,000	S	4,000
Management/administration	1,000	1,000	2,000	2,000	4,000	3,000	4,000	5,000	2,000	4,000	4,000
Male	3,000	1,000	2,000	3,000	7,000	4,000	10,000	6,000	3,000	6,000	4,000
Female	3,000	2,000	3,000	11,000	3,000	2,000	2,000	7,000	4,000	5,000	11,000
Sales/marketing	6,000	7,000	5,000	10,000	S	S	S	S	S	S	S
Male	8,000	5,000	7,000	S	S	S	S	S	S	S	S
Female	5,000	4,000	9,000	S	S	S	S	S	S	S	S
Social services/related	1,000	2,000	4,000	6,000	1,000	4,000	4,000	6,000	1,000	S	3,000
Male	1,000	3,000	16,000	9,000	6,000	5,000	S	11,000	4,000	S	4,000
Female	2,000	1,000	4,000	9,000	1,000	6,000	6,000	7,000	3,000	S	3,000
Other non-S&E fields	2,000	5,000	5,000	10,000	5,000	4,000	3,000	4,000	7,000	4,000	3,000
Male	5,000	5,000	8,000	S	8,000	5,000	5,000	6,000	5,000	5,000	11,000
Female	3,000	5,000	8,000	S	5,000	4,000	6,000	5,000	3,000	11,000	4,000
Doctorate degrees	1,000	1,000	1,000	2,000	2,000	1,000	1,000	4,000	3,000	2,000	3,000
Male	500	2,000	500	4,000	3,000	1,000	2,000	2,000	2,000	1,000	3,000
Female	500	3,000	2,000	1,000	5,000	500	1,000	1,000	1,000	4,000	5,000
S&E fields	1,000	2,000	2,000	3,000	3,000	1,000	1,000	1,000	1,000	2,000	1,000
Male	1,000	2,000	500	7,000	3,000	1,000	1,000	2,000	1,000	2,000	2,000

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	500	500	2,000	6,000	4,000	1,000	1,000	1,000	2,000	5,000	3,000
Sciences	500	1,000	2,000	3,000	1,000	500	1,000	1,000	2,000	2,000	2,000
Male	1,000	2,000	500	7,000	2,000	500	1,000	3,000	1,000	1,000	2,000
Female	500	3,000	2,000	5,000	4,000	1,000	2,000	1,000	2,000	5,000	3,000
Biological/agricultural/environmental life sciences	500	2,000	2,000	11,000	2,000	1,000	1,000	2,000	2,000	4,000	2,000
Male	1,000	3,000	500	11,000	8,000	2,000	1,000	2,000	3,000	3,000	3,000
Female	2,000	2,000	2,000	4,000	8,000	1,000	1,000	2,000	8,000	10,000	2,000
Agricultural/food sciences	1,000	6,000	7,000	9,000	13,000	3,000	2,000	8,000	4,000	3,000	8,000
Male	2,000	7,000	9,000	11,000	S	4,000	2,000	S	4,000	3,000	S
Female	6,000	5,000	6,000	S	S	3,000	3,000	S	8,000	15,000	S
Biological sciences	500	1,000	2,000	14,000	2,000	2,000	2,000	1,000	2,000	5,000	3,000
Male	500	3,000	4,000	14,000	8,000	2,000	2,000	3,000	5,000	3,000	5,000
Female	3,000	2,000	2,000	4,000	8,000	1,000	1,000	3,000	10,000	13,000	2,000
Environmental life sciences	1,000	8,000	13,000	S	S	4,000	6,000	S	2,000	4,000	8,000
Male	2,000	5,000	8,000	S	S	3,000	1,000	S	3,000	3,000	S
Female	3,000	S	S	S	S	15,000	15,000	S	3,000	S	S
Computer/mathematical sciences	2,000	5,000	5,000	18,000	13,000	4,000	4,000	5,000	4,000	5,000	5,000
Male	2,000	4,000	5,000	16,000	8,000	1,000	2,000	5,000	9,000	11,000	S
Female	9,000	4,000	7,000	S	S	11,000	11,000	S	4,000	9,000	S
Computer/information sciences	6,000	1,000	2,000	S	S	2,000	2,000	S	9,000	13,000	S
Male	6,000	3,000	3,000	S	S	4,000	4,000	S	6,000	S	S
Female	5,000	6,000	6,000	S	S	9,000	10,000	S	S	S	S
Mathematical sciences	3,000	4,000	8,000	20,000	17,000	3,000	3,000	6,000	5,000	5,000	S
Male	2,000	3,000	9,000	20,000	14,000	3,000	3,000	6,000	14,000	13,000	S
Female	11,000	9,000	10,000	S	S	10,000	11,000	S	9,000	S	S
Physical/related sciences	1,000	1,000	2,000	5,000	5,000	1,000	1,000	1,000	3,000	1,000	3,000
Male	500	3,000	2,000	4,000	3,000	1,000	1,000	2,000	5,000	3,000	3,000
Female	3,000	2,000	1,000	17,000	10,000	2,000	3,000	5,000	4,000	5,000	9,000
Chemistry, except biochemistry	1,000	3,000	500	5,000	7,000	1,000	2,000	2,000	6,000	5,000	5,000
Male	500	2,000	3,000	3,000	9,000	2,000	2,000	4,000	5,000	8,000	7,000
Female	3,000	2,000	1,000	S	23,000	2,000	2,000	4,000	3,000	5,000	S
Earth/atmospheric/ocean sciences	3,000	6,000	1,000	7,000	7,000	2,000	2,000	4,000	7,000	5,000	7,000
Male	3,000	5,000	4,000	7,000	S	3,000	2,000	4,000	4,000	6,000	4,000
Female	2,000	15,000	1,000	S	S	4,000	5,000	S	8,000	11,000	S

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Physics/astronomy	2,000	2,000	1,000	12,000	10,000	1,000	2,000	5,000	3,000	4,000	17,000
Male	2,000	1,000	2,000	12,000	7,000	3,000	2,000	8,000	4,000	5,000	16,000
Female	4,000	6,000	5,000	S	S	5,000	3,000	S	8,000	7,000	S
Other physical sciences	29,000	72,000	56,000	S	S	16,000	16,000	S	9,000	S	S
Male	36,000	49,000	S	S	S	S	S	S	S	S	S
Female	14,000	S	S	S	S	S	S	S	S	S	S
Social/related sciences	1,000	1,000	4,000	4,000	500	1,000	1,000	2,000	1,000	2,000	1,000
Male	1,000	3,000	1,000	10,000	3,000	1,000	1,000	2,000	3,000	2,000	2,000
Female	500	3,000	8,000	7,000	4,000	2,000	2,000	3,000	2,000	3,000	2,000
Economics	3,000	7,000	9,000	35,000	9,000	2,000	2,000	S	7,000	3,000	8,000
Male	3,000	8,000	9,000	38,000	18,000	2,000	3,000	S	7,000	7,000	S
Female	5,000	6,000	9,000	S	S	4,000	4,000	S	5,000	3,000	S
Political/related sciences	1,000	16,000	15,000	15,000	8,000	1,000	500	10,000	12,000	11,000	5,000
Male	3,000	20,000	23,000	16,000	12,000	1,000	1,000	6,000	7,000	8,000	3,000
Female	3,000	12,000	8,000	S	17,000	4,000	4,000	S	7,000	S	S
Psychology	500	500	3,000	1,000	2,000	500	1,000	1,000	1,000	2,000	2,000
Male	2,000	2,000	2,000	6,000	4,000	2,000	2,000	2,000	2,000	2,000	2,000
Female	1,000	500	8,000	2,000	1,000	1,000	2,000	2,000	2,000	3,000	2,000
Sociology/anthropology	500	1,000	7,000	9,000	1,000	3,000	3,000	5,000	3,000	4,000	4,000
Male	1,000	8,000	12,000	16,000	9,000	2,000	2,000	7,000	5,000	4,000	5,000
Female	3,000	1,000	10,000	7,000	1,000	2,000	1,000	10,000	5,000	3,000	S
Other social sciences	3,000	10,000	13,000	6,000	11,000	1,000	2,000	5,000	3,000	7,000	3,000
Male	5,000	8,000	13,000	S	S	4,000	5,000	2,000	6,000	S	S
Female	2,000	24,000	38,000	S	S	1,000	1,000	4,000	4,000	S	S
Engineering	2,000	1,000	500	13,000	11,000	2,000	1,000	8,000	2,000	3,000	9,000
Male	2,000	500	500	14,000	6,000	500	2,000	10,000	2,000	3,000	9,000
Female	500	4,000	3,000	S	S	3,000	2,000	S	3,000	4,000	S
Aerospace/related engineering	8,000	10,000	9,000	S	S	8,000	7,000	S	9,000	8,000	S
Male	9,000	10,000	10,000	S	S	13,000	10,000	S	8,000	9,000	S
Female	S	S	S	S	S	S	S	S	S	S	S
Chemical engineering	4,000	2,000	1,000	12,000	7,000	5,000	9,000	S	19,000	19,000	S
Male	3,000	2,000	1,000	S	S	9,000	7,000	S	30,000	13,000	S
Female	3,000	2,000	3,000	S	S	26,000	S	S	S	S	S
Civil/architectural engineering	1,000	4,000	4,000	S	S	5,000	5,000	S	8,000	9,000	8,000

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	1,000	5,000	5,000	S	S	4,000	3,000	S	12,000	8,000	7,000
Female	3,000	S	S	S	S	7,000	8,000	S	S	S	S
Electrical/computer engineering	500	1,000	4,000	34,000	1,000	3,000	4,000	S	9,000	10,000	S
Male	500	4,000	1,000	34,000	1,000	4,000	4,000	S	10,000	11,000	S
Female	7,000	3,000	3,000	S	S	8,000	6,000	S	S	S	S
Industrial engineering	5,000	4,000	4,000	S	S	7,000	7,000	S	S	S	S
Male	6,000	5,000	5,000	S	S	8,000	8,000	S	S	S	S
Female	4,000	S	S	S	S	24,000	21,000	S	S	S	S
Mechanical engineering	1,000	4,000	3,000	15,000	S	4,000	3,000	S	3,000	2,000	S
Male	2,000	4,000	3,000	S	S	3,000	3,000	S	3,000	2,000	S
Female	5,000	9,000	S	S	S	17,000	17,000	S	S	S	S
Other engineering	2,000	3,000	2,000	23,000	4,000	3,000	2,000	5,000	2,000	5,000	9,000
Male	2,000	3,000	4,000	21,000	4,000	2,000	3,000	5,000	2,000	6,000	6,000
Female	5,000	2,000	3,000	S	S	6,000	6,000	S	S	S	S
S&E-related fields	2,000	5,000	14,000	37,000	18,000	2,000	1,000	6,000	5,000	4,000	5,000
Male	9,000	17,000	37,000	41,000	6,000	4,000	5,000	S	8,000	12,000	8,000
Female	6,000	3,000	3,000	36,000	14,000	4,000	3,000	10,000	1,000	2,000	500
Health	2,000	11,000	9,000	29,000	19,000	3,000	4,000	20,000	4,000	3,000	5,000
Male	7,000	3,000	17,000	41,000	6,000	4,000	4,000	S	7,000	11,000	S
Female	5,000	5,000	3,000	50,000	14,000	3,000	3,000	8,000	1,000	2,000	500
Science/mathematics teacher education	6,000	S	S	S	S	6,000	4,000	S	S	S	S
Male	4,000	S	S	S	S	S	S	S	S	S	S
Female	2,000	S	S	S	S	2,000	S	S	S	S	S
Technology/technical fields	4,000	S	S	S	S	S	S	S	S	S	S
Male	4,000	S	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Other S&E-related fields	S	S	S	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Non-S&E fields	2,000	5,000	14,000	22,000	10,000	2,000	2,000	2,000	14,000	S	S
Male	4,000	7,000	4,000	S	10,000	5,000	6,000	12,000	S	S	S
Female	3,000	8,000	9,000	S	S	4,000	4,000	4,000	S	S	S
Arts/humanities	5,000	S	S	S	S	6,000	7,000	S	S	S	S
Male	1,000	S	S	S	S	1,000	1,000	S	S	S	S

TABLE A-21. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003
(Dollars)

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	3,000	S	S	S	S	3,000	4,000	S	S	S	S
Education, except science/mathematics education teacher	3,000	12,000	S	S	S	3,000	6,000	6,000	S	S	S
Male	10,000	S	S	S	S	11,000	16,000	16,000	S	S	S
Female	4,000	16,000	S	S	S	5,000	2,000	5,000	S	S	S
Management/administration	9,000	11,000	S	S	S	7,000	7,000	S	S	S	S
Male	9,000	S	S	S	S	6,000	6,000	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Sales/marketing	S	S	S	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Social services/related	6,000	9,000	S	S	13,000	6,000	9,000	S	S	S	S
Male	6,000	16,000	S	S	S	6,000	5,000	S	S	S	S
Female	5,000	S	S	S	S	9,000	S	S	S	S	S
Other non-S&E fields	10,000	20,000	S	S	S	4,000	6,000	S	S	S	S
Male	18,000	S	S	S	S	8,000	10,000	S	S	S	S
Female	7,000	S	S	S	S	3,000	3,000	S	S	S	S

S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
All degree levels and fields[a]	1,000	1,000	500	500	1,000	1,000
Business/industry	1,000	2,000	1,000	500	1,000	1,000
4-year college/university	1,000	500	500	1,000	1,000	1,000
Other educational institution	1,000	500	500	1,000	1,000	1,000
Government	500	500	2,000	1,000	1,000	500
S&E fields	500	1,000	2,000	1,000	1,000	1,000
Business/industry	500	500	3,000	500	1,000	1,000
4-year college/university	1,000	1,000	1,000	1,000	2,000	1,000
Other educational institution	1,000	1,000	1,000	2,000	4,000	2,000
Government	1,000	500	3,000	1,000	1,000	1,000
Sciences	1,000	1,000	500	500	500	500
Business/industry	1,000	2,000	2,000	1,000	500	500
4-year college/university	500	500	1,000	2,000	2,000	1,000
Other educational institution	1,000	1,000	1,000	2,000	4,000	2,000
Government	500	1,000	4,000	1,000	1,000	1,000
Biological/agricultural/environmental life sciences	1,000	1,000	1,000	1,000	1,000	1,000
Business/industry	1,000	2,000	4,000	2,000	2,000	500
4-year college/university	1,000	1,000	2,000	2,000	6,000	3,000
Other educational institution	1,000	3,000	1,000	3,000	9,000	6,000
Government	2,000	1,000	3,000	2,000	2,000	2,000
Agricultural/food sciences	2,000	1,000	6,000	3,000	7,000	3,000
Business/industry	3,000	4,000	5,000	3,000	7,000	3,000
4-year college/university	3,000	8,000	9,000	3,000	1,000	5,000
Other educational institution	7,000	S	6,000	27,000	S	S
Government	5,000	9,000	S	9,000	14,000	5,000
Biological sciences	500	2,000	1,000	2,000	2,000	1,000
Business/industry	2,000	2,000	5,000	2,000	2,000	2,000
4-year college/university	1,000	3,000	1,000	2,000	7,000	6,000
Other educational institution	1,000	2,000	1,000	2,000	10,000	6,000
Government	1,000	1,000	3,000	2,000	5,000	2,000
Environmental life sciences	2,000	3,000	3,000	5,000	3,000	3,000
Business/industry	5,000	5,000	S	5,000	9,000	4,000
4-year college/university	3,000	8,000	500	11,000	S	26,000
Other educational institution	5,000	S	2,000	S	S	S
Government	4,000	6,000	S	6,000	3,000	3,000
Computer/mathematical sciences	500	1,000	2,000	2,000	500	1,000
Business/industry	1,000	2,000	6,000	2,000	1,000	3,000
4-year college/university	2,000	4,000	3,000	2,000	3,000	6,000
Other educational institution	3,000	4,000	1,000	2,000	1,000	3,000
Government	3,000	2,000	5,000	5,000	3,000	2,000
Computer/information sciences	2,000	1,000	4,000	2,000	500	1,000
Business/industry	1,000	2,000	4,000	1,000	2,000	6,000
4-year college/university	3,000	10,000	7,000	4,000	4,000	6,000
Other educational institution	3,000	4,000	3,000	5,000	1,000	S
Government	5,000	3,000	S	8,000	4,000	2,000
Mathematical sciences	3,000	4,000	2,000	2,000	2,000	4,000
Business/industry	3,000	3,000	17,000	6,000	2,000	5,000
4-year college/university	3,000	4,000	4,000	4,000	7,000	14,000
Other educational institution	1,000	6,000	1,000	3,000	4,000	3,000
Government	1,000	1,000	S	7,000	6,000	8,000
Physical/related sciences	2,000	2,000	1,000	2,000	3,000	3,000
Business/industry	2,000	3,000	16,000	1,000	2,000	2,000

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	2,000	3,000	2,000	8,000	8,000	4,000
Other educational institution	2,000	3,000	3,000	3,000	6,000	14,000
Government	3,000	4,000	5,000	5,000	5,000	5,000
Chemistry, except biochemistry	2,000	3,000	3,000	4,000	5,000	4,000
Business/industry	3,000	3,000	19,000	3,000	5,000	6,000
4-year college/university	3,000	2,000	2,000	5,000	6,000	3,000
Other educational institution	3,000	3,000	3,000	2,000	S	S
Government	4,000	4,000	S	5,000	9,000	6,000
Earth/atmospheric/ocean sciences	3,000	3,000	4,000	4,000	7,000	2,000
Business/industry	4,000	6,000	S	6,000	11,000	3,000
4-year college/university	4,000	3,000	3,000	21,000	9,000	2,000
Other educational institution	10,000	5,000	5,000	13,000	S	S
Government	3,000	5,000	S	5,000	7,000	6,000
Physics/astronomy	3,000	3,000	6,000	7,000	3,000	6,000
Business/industry	3,000	2,000	8,000	9,000	4,000	10,000
4-year college/university	1,000	2,000	6,000	7,000	5,000	10,000
Other educational institution	13,000	8,000	12,000	4,000	S	S
Government	6,000	3,000	S	13,000	9,000	5,000
Other physical sciences	6,000	11,000	9,000	17,000	25,000	3,000
Business/industry	15,000	24,000	S	31,000	43,000	4,000
4-year college/university	13,000	1,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	4,000	6,000	S	14,000	S	S
Social/related sciences	1,000	2,000	1,000	1,000	2,000	1,000
Business/industry	1,000	1,000	1,000	2,000	2,000	1,000
4-year college/university	2,000	2,000	2,000	2,000	2,000	1,000
Other educational institution	1,000	1,000	1,000	2,000	4,000	2,000
Government	2,000	3,000	5,000	1,000	3,000	500
Economics	1,000	1,000	3,000	4,000	5,000	7,000
Business/industry	2,000	2,000	10,000	4,000	6,000	4,000
4-year college/university	6,000	6,000	4,000	17,000	10,000	12,000
Other educational institution	2,000	9,000	4,000	9,000	S	S
Government	4,000	7,000	S	4,000	7,000	3,000
Political/related sciences	2,000	6,000	3,000	2,000	5,000	4,000
Business/industry	2,000	5,000	13,000	4,000	6,000	5,000
4-year college/university	4,000	3,000	2,000	5,000	7,000	11,000
Other educational institution	4,000	2,000	2,000	6,000	S	13,000
Government	5,000	6,000	16,000	3,000	3,000	2,000
Psychology	2,000	2,000	2,000	2,000	4,000	1,000
Business/industry	1,000	5,000	3,000	1,000	9,000	1,000
4-year college/university	1,000	4,000	2,000	3,000	3,000	3,000
Other educational institution	1,000	1,000	1,000	1,000	5,000	2,000
Government	1,000	3,000	2,000	3,000	4,000	1,000
Sociology/anthropology	1,000	5,000	1,000	1,000	4,000	1,000
Business/industry	2,000	6,000	3,000	2,000	3,000	2,000
4-year college/university	1,000	2,000	4,000	5,000	4,000	1,000
Other educational institution	3,000	5,000	3,000	3,000	S	7,000
Government	1,000	6,000	7,000	5,000	7,000	2,000
Other social sciences	1,000	2,000	3,000	2,000	2,000	2,000
Business/industry	1,000	5,000	17,000	4,000	7,000	3,000
4-year college/university	4,000	3,000	2,000	4,000	16,000	5,000
Other educational institution	2,000	5,000	3,000	7,000	S	10,000

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	4,000	6,000	S	6,000	1,000	3,000
Engineering	1,000	2,000	3,000	1,000	2,000	1,000
Business/industry	500	500	9,000	500	500	2,000
4-year college/university	2,000	5,000	3,000	5,000	8,000	4,000
Other educational institution	1,000	5,000	3,000	9,000	3,000	8,000
Government	2,000	500	17,000	2,000	2,000	4,000
Aerospace/related engineering	3,000	3,000	9,000	7,000	5,000	6,000
Business/industry	5,000	4,000	S	7,000	5,000	6,000
4-year college/university	2,000	9,000	15,000	5,000	4,000	S
Other educational institution	S	S	S	S	S	S
Government	7,000	3,000	S	7,000	7,000	12,000
Chemical engineering	3,000	3,000	7,000	4,000	4,000	5,000
Business/industry	3,000	2,000	S	3,000	5,000	5,000
4-year college/university	9,000	9,000	5,000	8,000	5,000	15,000
Other educational institution	2,000	S	2,000	S	S	S
Government	2,000	2,000	S	2,000	S	9,000
Civil/architectural engineering	2,000	1,000	4,000	1,000	3,000	4,000
Business/industry	2,000	1,000	S	2,000	3,000	5,000
4-year college/university	3,000	12,000	6,000	5,000	S	S
Other educational institution	4,000	S	7,000	S	S	S
Government	2,000	2,000	S	3,000	1,000	3,000
Electrical/computer engineering	2,000	500	5,000	1,000	1,000	2,000
Business/industry	500	2,000	13,000	1,000	1,000	3,000
4-year college/university	3,000	4,000	7,000	7,000	17,000	4,000
Other educational institution	9,000	1,000	9,000	S	S	S
Government	2,000	1,000	S	4,000	4,000	5,000
Industrial engineering	3,000	1,000	13,000	3,000	5,000	6,000
Business/industry	2,000	3,000	S	4,000	6,000	7,000
4-year college/university	7,000	5,000	4,000	18,000	S	S
Other educational institution	S	S	S	S	S	S
Government	8,000	4,000	S	5,000	S	S
Mechanical engineering	2,000	1,000	14,000	1,000	2,000	4,000
Business/industry	2,000	2,000	10,000	2,000	2,000	4,000
4-year college/university	7,000	11,000	2,000	11,000	24,000	S
Other educational institution	12,000	S	11,000	S	S	S
Government	3,000	4,000	S	3,000	18,000	1,000
Other engineering	2,000	2,000	15,000	1,000	4,000	3,000
Business/industry	1,000	1,000	41,000	3,000	1,000	2,000
4-year college/university	4,000	6,000	2,000	10,000	12,000	13,000
Other educational institution	7,000	S	5,000	S	S	S
Government	2,000	6,000	S	4,000	11,000	9,000
S&E-related fields	500	2,000	1,000	500	2,000	1,000
Business/industry	500	2,000	1,000	2,000	2,000	500
4-year college/university	2,000	2,000	3,000	3,000	6,000	2,000
Other educational institution	1,000	4,000	1,000	2,000	4,000	2,000
Government	2,000	2,000	2,000	3,000	4,000	2,000
Health	1,000	2,000	1,000	2,000	3,000	2,000
Business/industry	500	2,000	1,000	1,000	3,000	2,000
4-year college/university	3,000	2,000	3,000	2,000	11,000	3,000
Other educational institution	1,000	2,000	1,000	3,000	S	2,000
Government	1,000	3,000	2,000	2,000	6,000	2,000
Science/mathematics teacher education	1,000	2,000	1,000	2,000	2,000	4,000

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Business/industry	4,000	9,000	12,000	4,000	9,000	6,000
4-year college/university	4,000	9,000	3,000	S	S	S
Other educational institution	1,000	3,000	1,000	2,000	1,000	3,000
Government	4,000	S	S	12,000	S	S
Technology/technical fields	2,000	3,000	2,000	2,000	1,000	3,000
Business/industry	1,000	3,000	13,000	1,000	2,000	4,000
4-year college/university	12,000	9,000	S	S	S	S
Other educational institution	7,000	S	4,000	S	S	S
Government	7,000	6,000	S	6,000	12,000	3,000
Other S&E-related fields	3,000	3,000	16,000	4,000	10,000	3,000
Business/industry	3,000	4,000	S	3,000	9,000	4,000
4-year college/university	4,000	10,000	4,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	5,000	9,000	S	8,000	S	5,000
Non-S&E fields	1,000	1,000	1,000	1,000	1,000	1,000
Business/industry	2,000	500	3,000	500	1,000	2,000
4-year college/university	1,000	1,000	1,000	2,000	2,000	2,000
Other educational institution	1,000	2,000	500	2,000	2,000	2,000
Government	1,000	3,000	4,000	1,000	3,000	2,000
Arts/humanities	1,000	4,000	2,000	3,000	3,000	3,000
Business/industry	3,000	6,000	5,000	4,000	4,000	2,000
4-year college/university	1,000	1,000	1,000	3,000	6,000	4,000
Other educational institution	2,000	1,000	2,000	5,000	3,000	10,000
Government	5,000	15,000	S	4,000	9,000	9,000
Education, except science/mathematics teacher education	1,000	2,000	1,000	500	2,000	1,000
Business/industry	3,000	3,000	11,000	3,000	3,000	3,000
4-year college/university	3,000	3,000	2,000	9,000	S	4,000
Other educational institution	1,000	1,000	1,000	2,000	4,000	2,000
Government	3,000	10,000	7,000	3,000	4,000	8,000
Management/administration	1,000	1,000	3,000	500	500	2,000
Business/industry	2,000	3,000	7,000	2,000	2,000	3,000
4-year college/university	7,000	11,000	10,000	8,000	5,000	4,000
Other educational institution	3,000	3,000	3,000	10,000	4,000	S
Government	1,000	4,000	3,000	2,000	3,000	6,000
Sales/marketing	4,000	7,000	7,000	6,000	6,000	11,000
Business/industry	4,000	8,000	S	6,000	5,000	16,000
4-year college/university	4,000	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social services/related	1,000	3,000	2,000	2,000	4,000	2,000
Business/industry	2,000	4,000	4,000	1,000	7,000	1,000
4-year college/university	2,000	5,000	4,000	3,000	S	5,000
Other educational institution	5,000	S	2,000	8,000	S	2,000
Government	2,000	S	S	5,000	S	3,000
Other non-S&E fields	3,000	4,000	2,000	2,000	3,000	3,000
Business/industry	3,000	3,000	4,000	3,000	6,000	2,000
4-year college/university	4,000	6,000	4,000	6,000	3,000	6,000
Other educational institution	2,000	S	2,000	4,000	S	6,000
Government	3,000	5,000	12,000	3,000	6,000	3,000
Bachelor's degrees, all fields	500	1,000	1,000	1,000	1,000	2,000
Business/industry	1,000	1,000	1,000	1,000	1,000	500
4-year college/university	1,000	3,000	1,000	1,000	3,000	2,000

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other educational institution	1,000	1,000	1,000	1,000	3,000	1,000
Government	500	2,000	4,000	1,000	1,000	1,000
S&E fields	500	1,000	1,000	1,000	500	500
Business/industry	1,000	1,000	2,000	1,000	1,000	1,000
4-year college/university	2,000	2,000	2,000	1,000	3,000	2,000
Other educational institution	1,000	1,000	1,000	1,000	3,000	2,000
Government	500	1,000	5,000	1,000	1,000	1,000
Sciences	500	500	1,000	1,000	500	1,000
Business/industry	1,000	2,000	4,000	500	500	500
4-year college/university	2,000	2,000	3,000	1,000	4,000	2,000
Other educational institution	1,000	1,000	1,000	1,000	2,000	3,000
Government	1,000	1,000	4,000	1,000	2,000	1,000
Biological/agricultural/environmental life sciences	1,000	1,000	1,000	1,000	2,000	500
Business/industry	1,000	1,000	5,000	2,000	3,000	1,000
4-year college/university	1,000	2,000	3,000	3,000	6,000	3,000
Other educational institution	3,000	3,000	2,000	3,000	S	8,000
Government	2,000	3,000	6,000	2,000	4,000	3,000
Agricultural/food sciences	3,000	8,000	4,000	2,000	7,000	3,000
Business/industry	2,000	3,000	S	4,000	7,000	3,000
4-year college/university	4,000	6,000	S	S	S	S
Other educational institution	7,000	S	5,000	S	S	S
Government	5,000	14,000	S	9,000	S	5,000
Biological sciences	1,000	2,000	1,000	1,000	3,000	1,000
Business/industry	2,000	1,000	6,000	2,000	3,000	500
4-year college/university	2,000	2,000	3,000	3,000	12,000	4,000
Other educational institution	1,000	3,000	1,000	4,000	S	S
Government	3,000	2,000	S	2,000	5,000	3,000
Environmental life sciences	2,000	3,000	6,000	5,000	2,000	4,000
Business/industry	5,000	5,000	S	5,000	6,000	10,000
4-year college/university	7,000	S	S	S	S	S
Other educational institution	2,000	S	10,000	S	S	S
Government	5,000	4,000	S	6,000	S	2,000
Computer/mathematical sciences	500	1,000	3,000	3,000	2,000	2,000
Business/industry	1,000	2,000	6,000	2,000	1,000	4,000
4-year college/university	2,000	3,000	2,000	3,000	5,000	9,000
Other educational institution	2,000	2,000	2,000	2,000	3,000	8,000
Government	2,000	1,000	S	4,000	1,000	3,000
Computer/information sciences	2,000	2,000	3,000	3,000	1,000	2,000
Business/industry	2,000	1,000	5,000	1,000	2,000	5,000
4-year college/university	3,000	9,000	S	4,000	4,000	S
Other educational institution	1,000	2,000	6,000	8,000	4,000	S
Government	3,000	1,000	S	2,000	5,000	2,000
Mathematical sciences	3,000	3,000	4,000	5,000	3,000	5,000
Business/industry	2,000	6,000	22,000	3,000	3,000	6,000
4-year college/university	7,000	9,000	1,000	6,000	8,000	S
Other educational institution	3,000	7,000	4,000	5,000	4,000	11,000
Government	3,000	8,000	S	6,000	8,000	8,000
Physical/related sciences	1,000	3,000	5,000	3,000	6,000	2,000
Business/industry	3,000	4,000	7,000	4,000	6,000	3,000
4-year college/university	5,000	1,000	2,000	7,000	20,000	3,000
Other educational institution	5,000	3,000	5,000	1,000	S	S
Government	2,000	4,000	S	5,000	7,000	4,000

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Chemistry, except biochemistry	1,000	2,000	2,000	3,000	3,000	4,000
Business/industry	3,000	5,000	4,000	5,000	10,000	6,000
4-year college/university	3,000	1,000	7,000	4,000	S	5,000
Other educational institution	3,000	S	3,000	1,000	S	S
Government	4,000	5,000	S	6,000	S	10,000
Earth/atmospheric/ocean sciences	2,000	4,000	5,000	4,000	5,000	3,000
Business/industry	5,000	6,000	S	6,000	12,000	3,000
4-year college/university	13,000	12,000	S	S	S	S
Other educational institution	8,000	S	6,000	4,000	S	S
Government	5,000	3,000	S	4,000	7,000	6,000
Physics/astronomy	6,000	4,000	6,000	5,000	9,000	7,000
Business/industry	2,000	5,000	S	6,000	4,000	11,000
4-year college/university	1,000	500	1,000	18,000	5,000	17,000
Other educational institution	17,000	S	15,000	S	S	S
Government	18,000	S	S	38,000	S	S
Other physical sciences	6,000	9,000	S	8,000	30,000	3,000
Business/industry	13,000	28,000	S	19,000	S	3,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	9,000	S	S	S	S	S
Social/related sciences	500	2,000	1,000	1,000	2,000	1,000
Business/industry	1,000	3,000	2,000	1,000	3,000	2,000
4-year college/university	1,000	2,000	3,000	3,000	5,000	1,000
Other educational institution	1,000	2,000	1,000	1,000	4,000	3,000
Government	1,000	3,000	5,000	2,000	3,000	1,000
Economics	3,000	3,000	7,000	1,000	3,000	6,000
Business/industry	2,000	4,000	S	4,000	3,000	7,000
4-year college/university	8,000	S	S	8,000	S	S
Other educational institution	4,000	S	7,000	10,000	S	S
Government	7,000	4,000	S	4,000	7,000	8,000
Political/related sciences	2,000	7,000	3,000	2,000	4,000	3,000
Business/industry	3,000	6,000	13,000	4,000	5,000	5,000
4-year college/university	9,000	4,000	S	12,000	S	S
Other educational institution	3,000	2,000	3,000	6,000	S	S
Government	2,000	4,000	S	2,000	2,000	3,000
Psychology	500	1,000	1,000	1,000	6,000	1,000
Business/industry	1,000	4,000	4,000	3,000	13,000	1,000
4-year college/university	3,000	4,000	S	5,000	S	1,000
Other educational institution	1,000	3,000	1,000	2,000	S	4,000
Government	2,000	8,000	3,000	2,000	5,000	2,000
Sociology/anthropology	1,000	3,000	2,000	1,000	4,000	1,000
Business/industry	1,000	5,000	3,000	2,000	3,000	1,000
4-year college/university	2,000	2,000	2,000	2,000	S	1,000
Other educational institution	3,000	5,000	3,000	3,000	S	7,000
Government	1,000	6,000	7,000	5,000	7,000	3,000
Other social sciences	2,000	1,000	2,000	3,000	2,000	3,000
Business/industry	1,000	4,000	21,000	4,000	5,000	3,000
4-year college/university	3,000	S	S	S	S	S
Other educational institution	2,000	6,000	2,000	2,000	S	31,000
Government	2,000	4,000	S	3,000	1,000	3,000
Engineering	500	500	4,000	1,000	500	2,000
Business/industry	1,000	2,000	8,000	2,000	2,000	1,000

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	5,000	2,000	12,000	11,000	4,000	5,000
Other educational institution	2,000	3,000	4,000	11,000	S	S
Government	2,000	2,000	S	3,000	1,000	1,000
Aerospace/related engineering	3,000	4,000	16,000	9,000	6,000	12,000
Business/industry	5,000	4,000	S	12,000	6,000	12,000
4-year college/university	13,000	16,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	7,000	10,000	S	9,000	S	22,000
Chemical engineering	3,000	1,000	2,000	4,000	5,000	6,000
Business/industry	4,000	3,000	S	4,000	5,000	7,000
4-year college/university	2,000	1,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	1,000	500	S	3,000	S	11,000
Civil/architectural engineering	2,000	500	9,000	2,000	2,000	4,000
Business/industry	3,000	2,000	S	3,000	3,000	5,000
4-year college/university	19,000	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	1,000	2,000	S	2,000	1,000	5,000
Electrical/computer engineering	1,000	1,000	5,000	1,000	500	3,000
Business/industry	500	2,000	14,000	2,000	1,000	3,000
4-year college/university	4,000	2,000	S	S	4,000	S
Other educational institution	7,000	S	9,000	S	S	S
Government	3,000	5,000	S	5,000	4,000	7,000
Industrial engineering	2,000	3,000	10,000	3,000	9,000	6,000
Business/industry	3,000	3,000	S	3,000	9,000	7,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	6,000	S	S	7,000	S	S
Mechanical engineering	2,000	1,000	11,000	2,000	2,000	4,000
Business/industry	2,000	2,000	14,000	2,000	2,000	4,000
4-year college/university	23,000	6,000	S	S	S	S
Other educational institution	11,000	S	S	S	S	S
Government	4,000	3,000	S	3,000	17,000	2,000
Other engineering	2,000	4,000	15,000	2,000	7,000	4,000
Business/industry	2,000	3,000	S	2,000	4,000	3,000
4-year college/university	7,000	3,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	4,000	9,000	S	5,000	S	6,000
S&E-related fields	500	2,000	1,000	2,000	2,000	1,000
Business/industry	500	2,000	2,000	2,000	3,000	1,000
4-year college/university	2,000	2,000	2,000	3,000	10,000	1,000
Other educational institution	1,000	3,000	1,000	2,000	12,000	2,000
Government	3,000	6,000	3,000	3,000	4,000	2,000
Health	1,000	2,000	2,000	500	4,000	1,000
Business/industry	1,000	2,000	2,000	500	5,000	1,000
4-year college/university	2,000	2,000	2,000	3,000	12,000	1,000
Other educational institution	2,000	7,000	3,000	3,000	S	3,000
Government	3,000	10,000	4,000	6,000	4,000	3,000
Science/mathematics teacher education	2,000	4,000	1,000	3,000	2,000	5,000
Business/industry	5,000	11,000	S	5,000	4,000	7,000
4-year college/university	S	S	S	S	S	S
Other educational institution	1,000	4,000	1,000	3,000	S	S

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	9,000	S	S	S	S	S
Technology/technical fields	2,000	3,000	4,000	3,000	2,000	4,000
Business/industry	3,000	3,000	13,000	3,000	1,000	4,000
4-year college/university	14,000	S	S	S	S	S
Other educational institution	11,000	S	S	S	S	S
Government	3,000	15,000	S	8,000	16,000	S
Other S&E-related fields	4,000	5,000	S	4,000	12,000	3,000
Business/industry	4,000	5,000	S	4,000	7,000	4,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	5,000	S	S	7,000	S	S
Non-S&E fields	1,000	3,000	1,000	2,000	2,000	1,000
Business/industry	2,000	3,000	4,000	1,000	2,000	2,000
4-year college/university	500	3,000	S	2,000	4,000	1,000
Other educational institution	1,000	1,000	1,000	2,000	3,000	2,000
Government	2,000	6,000	6,000	3,000	3,000	2,000
Arts/humanities	2,000	4,000	1,000	4,000	4,000	2,000
Business/industry	3,000	5,000	3,000	5,000	3,000	3,000
4-year college/university	1,000	S	S	1,000	7,000	S
Other educational institution	2,000	S	2,000	500	S	S
Government	5,000	13,000	S	8,000	14,000	15,000
Education, except science/mathematics teacher education	1,000	4,000	1,000	1,000	4,000	3,000
Business/industry	4,000	6,000	S	6,000	4,000	5,000
4-year college/university	S	S	S	S	S	S
Other educational institution	1,000	2,000	1,000	2,000	4,000	4,000
Government	4,000	S	S	6,000	7,000	5,000
Management/administration	500	4,000	4,000	2,000	2,000	2,000
Business/industry	2,000	2,000	6,000	2,000	2,000	4,000
4-year college/university	5,000	S	S	13,000	11,000	S
Other educational institution	2,000	S	2,000	S	5,000	S
Government	6,000	12,000	S	3,000	4,000	7,000
Sales/marketing	4,000	4,000	S	5,000	5,000	8,000
Business/industry	5,000	6,000	S	7,000	10,000	10,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social services/related	3,000	12,000	S	3,000	5,000	6,000
Business/industry	4,000	13,000	S	6,000	9,000	7,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	8,000	S	S	S	S	S
Other non-S&E fields	2,000	5,000	2,000	1,000	1,000	2,000
Business/industry	3,000	4,000	S	3,000	1,000	2,000
4-year college/university	2,000	S	S	S	S	S
Other educational institution	2,000	S	2,000	S	S	S
Government	3,000	7,000	S	6,000	7,000	6,000
Master's degrees, all fields	500	1,000	1,000	1,000	1,000	500
Business/industry	500	500	3,000	500	1,000	500
4-year college/university	2,000	2,000	2,000	1,000	1,000	3,000
Other educational institution	1,000	2,000	1,000	1,000	3,000	1,000
Government	1,000	3,000	3,000	2,000	2,000	2,000

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
S&E fields	2,000	2,000	1,000	1,000	2,000	2,000
Business/industry	1,000	2,000	3,000	2,000	500	3,000
4-year college/university	2,000	3,000	4,000	2,000	3,000	2,000
Other educational institution	1,000	2,000	3,000	2,000	2,000	3,000
Government	2,000	2,000	4,000	3,000	3,000	2,000
Sciences	1,000	1,000	1,000	500	1,000	1,000
Business/industry	2,000	2,000	3,000	2,000	2,000	500
4-year college/university	1,000	2,000	4,000	2,000	2,000	2,000
Other educational institution	2,000	2,000	2,000	2,000	2,000	2,000
Government	2,000	2,000	3,000	3,000	2,000	2,000
Biological/agricultural/environmental life sciences	1,000	3,000	2,000	2,000	3,000	3,000
Business/industry	2,000	3,000	4,000	4,000	3,000	4,000
4-year college/university	2,000	2,000	5,000	5,000	6,000	13,000
Other educational institution	3,000	8,000	3,000	6,000	S	S
Government	2,000	2,000	S	5,000	1,000	4,000
Agricultural/food sciences	2,000	4,000	1,000	10,000	S	8,000
Business/industry	11,000	7,000	S	7,000	S	10,000
4-year college/university	8,000	8,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	4,000	S	S	S	S	S
Biological sciences	1,000	2,000	3,000	3,000	3,000	3,000
Business/industry	2,000	6,000	5,000	4,000	2,000	4,000
4-year college/university	4,000	2,000	9,000	7,000	6,000	11,000
Other educational institution	3,000	S	3,000	9,000	S	S
Government	4,000	2,000	S	8,000	S	5,000
Environmental life sciences	4,000	7,000	3,000	13,000	17,000	3,000
Business/industry	10,000	12,000	S	18,000	S	9,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	8,000	11,000	S	12,000	S	S
Computer/mathematical sciences	1,000	2,000	4,000	2,000	3,000	6,000
Business/industry	2,000	2,000	24,000	1,000	2,000	8,000
4-year college/university	1,000	9,000	5,000	5,000	9,000	S
Other educational institution	6,000	2,000	3,000	7,000	2,000	S
Government	7,000	4,000	S	13,000	9,000	20,000
Computer/information sciences	2,000	2,000	5,000	3,000	1,000	5,000
Business/industry	2,000	1,000	S	1,000	2,000	7,000
4-year college/university	3,000	2,000	9,000	11,000	10,000	S
Other educational institution	5,000	S	7,000	S	S	S
Government	7,000	3,000	S	13,000	11,000	S
Mathematical sciences	3,000	4,000	4,000	5,000	3,000	13,000
Business/industry	3,000	3,000	S	6,000	3,000	14,000
4-year college/university	6,000	6,000	6,000	2,000	7,000	S
Other educational institution	4,000	10,000	3,000	4,000	S	S
Government	8,000	6,000	S	8,000	12,000	S
Physical/related sciences	2,000	3,000	7,000	3,000	2,000	5,000
Business/industry	2,000	3,000	S	3,000	7,000	8,000
4-year college/university	1,000	1,000	3,000	21,000	12,000	16,000
Other educational institution	4,000	11,000	3,000	8,000	S	S
Government	4,000	3,000	S	2,000	2,000	5,000
Chemistry, except biochemistry	3,000	4,000	6,000	8,000	5,000	9,000

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Business/industry	2,000	2,000	S	5,000	4,000	18,000
4-year college/university	1,000	2,000	4,000	S	S	S
Other educational institution	6,000	S	5,000	S	S	S
Government	4,000	5,000	S	S	S	S
Earth/atmospheric/ocean sciences	2,000	4,000	7,000	5,000	4,000	4,000
Business/industry	5,000	6,000	S	12,000	13,000	8,000
4-year college/university	9,000	5,000	S	S	S	S
Other educational institution	4,000	S	5,000	S	S	S
Government	5,000	3,000	S	5,000	S	S
Physics/astronomy	5,000	8,000	9,000	11,000	6,000	23,000
Business/industry	6,000	5,000	S	17,000	8,000	19,000
4-year college/university	3,000	1,000	11,000	S	19,000	S
Other educational institution	14,000	S	14,000	S	S	S
Government	S	S	S	S	S	S
Other physical sciences	16,000	S	S	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social/related sciences	2,000	3,000	2,000	2,000	4,000	500
Business/industry	1,000	5,000	5,000	2,000	11,000	2,000
4-year college/university	1,000	3,000	6,000	4,000	2,000	1,000
Other educational institution	2,000	2,000	3,000	2,000	7,000	2,000
Government	5,000	7,000	4,000	3,000	9,000	4,000
Economics	9,000	6,000	7,000	10,000	3,000	7,000
Business/industry	7,000	10,000	S	14,000	9,000	10,000
4-year college/university	14,000	5,000	6,000	S	S	S
Other educational institution	6,000	S	6,000	S	S	S
Government	16,000	24,000	S	16,000	S	S
Political/related sciences	4,000	9,000	12,000	5,000	13,000	10,000
Business/industry	6,000	10,000	S	9,000	32,000	14,000
4-year college/university	5,000	S	S	S	S	S
Other educational institution	5,000	S	5,000	S	S	S
Government	8,000	6,000	S	10,000	S	14,000
Psychology	1,000	3,000	5,000	1,000	2,000	500
Business/industry	1,000	7,000	5,000	4,000	3,000	1,000
4-year college/university	5,000	6,000	5,000	5,000	S	6,000
Other educational institution	1,000	5,000	2,000	3,000	S	2,000
Government	3,000	20,000	S	5,000	9,000	3,000
Sociology/anthropology	3,000	8,000	9,000	6,000	10,000	7,000
Business/industry	7,000	8,000	S	8,000	S	16,000
4-year college/university	9,000	2,000	11,000	S	S	S
Other educational institution	18,000	S	17,000	S	S	S
Government	11,000	5,000	S	11,000	S	6,000
Other social sciences	5,000	3,000	6,000	4,000	9,000	4,000
Business/industry	6,000	8,000	S	12,000	S	2,000
4-year college/university	6,000	17,000	3,000	12,000	S	S
Other educational institution	3,000	5,000	3,000	3,000	S	S
Government	14,000	24,000	S	12,000	S	3,000
Engineering	500	2,000	4,000	1,000	500	3,000
Business/industry	1,000	500	11,000	3,000	2,000	3,000
4-year college/university	1,000	1,000	10,000	5,000	3,000	12,000

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other educational institution	6,000	S	4,000	S	S	S
Government	2,000	2,000	S	3,000	3,000	5,000
Aerospace/related engineering	3,000	1,000	S	7,000	3,000	3,000
Business/industry	7,000	4,000	S	6,000	6,000	S
4-year college/university	11,000	5,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	4,000	3,000	S	5,000	S	S
Chemical engineering	8,000	4,000	S	11,000	9,000	4,000
Business/industry	5,000	5,000	S	9,000	13,000	6,000
4-year college/university	500	1,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Civil/architectural engineering	2,000	3,000	S	2,000	2,000	7,000
Business/industry	3,000	2,000	S	4,000	3,000	12,000
4-year college/university	2,000	1,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	3,000	2,000	S	3,000	3,000	4,000
Electrical/computer engineering	2,000	2,000	7,000	2,000	1,000	8,000
Business/industry	1,000	1,000	S	3,000	2,000	8,000
4-year college/university	3,000	3,000	33,000	S	5,000	S
Other educational institution	S	S	S	S	S	S
Government	5,000	5,000	S	9,000	3,000	S
Industrial engineering	3,000	2,000	S	3,000	5,000	9,000
Business/industry	3,000	1,000	S	3,000	5,000	8,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	12,000	S	S	S	S	S
Mechanical engineering	2,000	2,000	S	3,000	3,000	8,000
Business/industry	2,000	2,000	S	3,000	3,000	10,000
4-year college/university	25,000	16,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	5,000	9,000	S	13,000	S	S
Other engineering	3,000	2,000	5,000	3,000	3,000	6,000
Business/industry	3,000	3,000	S	3,000	8,000	5,000
4-year college/university	12,000	2,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	3,000	6,000	S	4,000	S	16,000
S&E-related fields	2,000	2,000	2,000	2,000	3,000	1,000
Business/industry	2,000	3,000	3,000	3,000	2,000	2,000
4-year college/university	3,000	6,000	3,000	8,000	6,000	5,000
Other educational institution	1,000	2,000	2,000	1,000	4,000	2,000
Government	2,000	6,000	7,000	4,000	12,000	3,000
Health	3,000	4,000	2,000	2,000	7,000	2,000
Business/industry	1,000	5,000	2,000	2,000	5,000	3,000
4-year college/university	5,000	5,000	6,000	9,000	S	2,000
Other educational institution	1,000	5,000	2,000	2,000	S	1,000
Government	3,000	10,000	6,000	7,000	S	4,000
Science/mathematics teacher education	2,000	4,000	2,000	4,000	4,000	7,000
Business/industry	7,000	S	S	17,000	S	S
4-year college/university	8,000	S	9,000	S	S	S
Other educational institution	1,000	2,000	2,000	1,000	2,000	5,000
Government	S	S	S	S	S	S

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Technology/technical fields	3,000	6,000	S	4,000	5,000	9,000
Business/industry	7,000	6,000	S	8,000	5,000	14,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Other S&E-related fields	3,000	4,000	S	8,000	6,000	8,000
Business/industry	4,000	5,000	S	10,000	S	11,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	8,000	S	S	13,000	S	10,000
Non-S&E fields	500	3,000	500	500	1,000	500
Business/industry	2,000	3,000	3,000	1,000	2,000	1,000
4-year college/university	2,000	2,000	3,000	2,000	4,000	3,000
Other educational institution	1,000	2,000	1,000	1,000	2,000	1,000
Government	2,000	4,000	6,000	5,000	2,000	2,000
Arts/humanities	3,000	13,000	2,000	4,000	3,000	7,000
Business/industry	7,000	13,000	S	8,000	8,000	6,000
4-year college/university	3,000	S	8,000	S	S	S
Other educational institution	4,000	S	4,000	4,000	S	S
Government	8,000	S	S	S	S	S
Education, except science/mathematics teacher education	1,000	1,000	500	1,000	2,000	1,000
Business/industry	7,000	8,000	14,000	5,000	8,000	2,000
4-year college/university	4,000	1,000	3,000	3,000	S	5,000
Other educational institution	1,000	1,000	1,000	1,000	4,000	2,000
Government	4,000	11,000	S	6,000	S	4,000
Management/administration	1,000	1,000	6,000	1,000	1,000	3,000
Business/industry	1,000	4,000	18,000	2,000	3,000	7,000
4-year college/university	4,000	8,000	1,000	10,000	6,000	4,000
Other educational institution	5,000	S	6,000	7,000	S	S
Government	2,000	10,000	S	3,000	2,000	6,000
Sales/marketing	6,000	7,000	S	8,000	7,000	13,000
Business/industry	7,000	9,000	S	6,000	7,000	17,000
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social services/related	1,000	5,000	3,000	2,000	7,000	1,000
Business/industry	2,000	4,000	5,000	1,000	6,000	2,000
4-year college/university	4,000	S	S	S	S	5,000
Other educational institution	6,000	S	7,000	S	S	1,000
Government	1,000	S	S	5,000	S	3,000
Other non-S&E fields	2,000	6,000	3,000	4,000	4,000	2,000
Business/industry	5,000	5,000	S	7,000	9,000	5,000
4-year college/university	3,000	6,000	9,000	2,000	S	S
Other educational institution	4,000	S	2,000	S	S	S
Government	7,000	13,000	S	5,000	6,000	7,000
Doctorate degrees, all fields	1,000	2,000	1,000	2,000	3,000	2,000
Business/industry	1,000	2,000	9,000	3,000	3,000	2,000
4-year college/university	1,000	1,000	1,000	2,000	2,000	3,000
Other educational institution	4,000	5,000	3,000	6,000	2,000	3,000
Government	3,000	2,000	5,000	3,000	5,000	500
S&E fields	1,000	500	1,000	1,000	2,000	2,000
Business/industry	2,000	1,000	7,000	500	1,000	2,000

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	1,000	1,000	1,000	2,000	3,000	1,000
Other educational institution	1,000	3,000	2,000	3,000	7,000	1,000
Government	1,000	2,000	4,000	2,000	4,000	2,000
Sciences	500	2,000	1,000	1,000	3,000	500
Business/industry	1,000	1,000	7,000	1,000	3,000	1,000
4-year college/university	1,000	1,000	1,000	1,000	2,000	1,000
Other educational institution	1,000	3,000	1,000	3,000	15,000	1,000
Government	2,000	1,000	5,000	1,000	3,000	2,000
Biological/agricultural/environmental life sciences	500	1,000	2,000	3,000	4,000	3,000
Business/industry	2,000	2,000	16,000	2,000	6,000	3,000
4-year college/university	1,000	2,000	1,000	2,000	5,000	5,000
Other educational institution	2,000	4,000	1,000	2,000	S	3,000
Government	2,000	4,000	S	2,000	6,000	7,000
Agricultural/food sciences	1,000	2,000	4,000	5,000	5,000	3,000
Business/industry	6,000	4,000	S	10,000	4,000	10,000
4-year college/university	2,000	3,000	3,000	8,000	S	11,000
Other educational institution	8,000	S	S	S	S	S
Government	4,000	6,000	S	7,000	S	S
Biological sciences	500	2,000	2,000	2,000	5,000	4,000
Business/industry	1,000	2,000	19,000	1,000	7,000	4,000
4-year college/university	2,000	2,000	2,000	2,000	3,000	6,000
Other educational institution	1,000	5,000	1,000	2,000	S	2,000
Government	2,000	5,000	S	3,000	6,000	4,000
Environmental life sciences	1,000	2,000	4,000	5,000	S	5,000
Business/industry	8,000	12,000	S	5,000	S	S
4-year college/university	6,000	7,000	5,000	6,000	S	S
Other educational institution	S	S	S	S	S	S
Government	2,000	2,000	S	3,000	S	S
Computer/mathematical sciences	2,000	4,000	4,000	3,000	3,000	14,000
Business/industry	5,000	5,000	S	3,000	2,000	43,000
4-year college/university	4,000	6,000	4,000	4,000	7,000	7,000
Other educational institution	5,000	S	7,000	S	S	S
Government	4,000	7,000	S	16,000	7,000	S
Computer/information sciences	6,000	7,000	2,000	2,000	2,000	60,000
Business/industry	1,000	4,000	S	3,000	3,000	500
4-year college/university	2,000	4,000	3,000	8,000	16,000	S
Other educational institution	S	S	S	S	S	S
Government	9,000	9,000	S	S	S	S
Mathematical sciences	3,000	4,000	3,000	8,000	2,000	5,000
Business/industry	4,000	5,000	S	6,000	5,000	14,000
4-year college/university	3,000	5,000	4,000	3,000	9,000	4,000
Other educational institution	6,000	S	7,000	S	S	S
Government	5,000	7,000	S	26,000	8,000	S
Physical/related sciences	1,000	1,000	1,000	1,000	4,000	3,000
Business/industry	1,000	2,000	67,000	2,000	2,000	3,000
4-year college/university	1,000	2,000	1,000	2,000	4,000	5,000
Other educational institution	1,000	7,000	2,000	7,000	S	14,000
Government	3,000	5,000	S	8,000	2,000	13,000
Chemistry, except biochemistry	1,000	500	1,000	3,000	1,000	2,000
Business/industry	3,000	3,000	16,000	2,000	1,000	3,000
4-year college/university	2,000	1,000	1,000	6,000	5,000	6,000
Other educational institution	2,000	S	2,000	5,000	S	S

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Government	6,000	5,000	S	10,000	S	18,000
Earth/atmospheric/ocean sciences	3,000	3,000	2,000	4,000	3,000	8,000
Business/industry	6,000	5,000	S	2,000	5,000	19,000
4-year college/university	2,000	3,000	2,000	7,000	11,000	S
Other educational institution	4,000	S	5,000	S	S	S
Government	7,000	6,000	S	14,000	13,000	8,000
Physics/astronomy	2,000	3,000	1,000	4,000	4,000	6,000
Business/industry	2,000	3,000	S	2,000	4,000	9,000
4-year college/university	2,000	3,000	3,000	7,000	9,000	10,000
Other educational institution	5,000	S	5,000	S	S	S
Government	3,000	4,000	S	6,000	7,000	6,000
Other physical sciences	29,000	10,000	500	500	S	S
Business/industry	72,000	30,000	S	S	S	S
4-year college/university	16,000	4,000	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	9,000	S	S	S	S	S
Social/related sciences	1,000	1,000	500	500	3,000	500
Business/industry	1,000	4,000	7,000	500	4,000	2,000
4-year college/university	1,000	1,000	500	1,000	3,000	500
Other educational institution	2,000	3,000	2,000	3,000	S	2,000
Government	1,000	3,000	8,000	2,000	4,000	2,000
Economics	3,000	3,000	3,000	5,000	10,000	9,000
Business/industry	7,000	13,000	S	9,000	9,000	13,000
4-year college/university	2,000	1,000	3,000	8,000	S	3,000
Other educational institution	S	S	S	S	S	S
Government	7,000	7,000	S	11,000	S	13,000
Political/related sciences	1,000	3,000	1,000	5,000	14,000	6,000
Business/industry	16,000	19,000	S	22,000	S	25,000
4-year college/university	500	4,000	3,000	6,000	S	3,000
Other educational institution	10,000	S	7,000	S	S	S
Government	12,000	15,000	S	13,000	S	4,000
Psychology	500	1,000	500	1,000	5,000	500
Business/industry	500	2,000	4,000	4,000	7,000	5,000
4-year college/university	1,000	2,000	500	2,000	5,000	1,000
Other educational institution	1,000	4,000	2,000	7,000	S	2,000
Government	1,000	4,000	6,000	1,000	8,000	1,000
Sociology/anthropology	500	2,000	1,000	2,000	3,000	2,000
Business/industry	1,000	2,000	S	4,000	S	7,000
4-year college/university	3,000	3,000	1,000	3,000	S	3,000
Other educational institution	5,000	S	15,000	10,000	S	S
Government	3,000	3,000	S	5,000	S	6,000
Other social sciences	3,000	3,000	2,000	2,000	5,000	8,000
Business/industry	10,000	13,000	S	16,000	15,000	8,000
4-year college/university	2,000	2,000	2,000	4,000	S	10,000
Other educational institution	5,000	4,000	7,000	7,000	S	S
Government	3,000	6,000	S	3,000	S	S
Engineering	2,000	500	1,000	2,000	1,000	6,000
Business/industry	1,000	2,000	10,000	2,000	4,000	7,000
4-year college/university	1,000	2,000	1,000	4,000	13,000	8,000
Other educational institution	8,000	S	8,000	S	S	S
Government	2,000	2,000	S	6,000	6,000	22,000
Aerospace/related engineering	8,000	7,000	10,000	5,000	9,000	S

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Business/industry	10,000	9,000	S	8,000	12,000	S
4-year college/university	7,000	6,000	6,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	9,000	8,000	S	S	S	S
Chemical engineering	4,000	3,000	3,000	4,000	9,000	21,000
Business/industry	2,000	2,000	S	4,000	9,000	7,000
4-year college/university	9,000	11,000	8,000	22,000	S	S
Other educational institution	S	S	S	S	S	S
Government	19,000	21,000	S	S	S	S
Civil/architectural engineering	1,000	1,000	3,000	5,000	5,000	10,000
Business/industry	4,000	5,000	S	7,000	7,000	21,000
4-year college/university	5,000	5,000	3,000	9,000	S	S
Other educational institution	S	S	S	S	S	S
Government	8,000	4,000	S	13,000	S	S
Electrical/computer engineering	500	500	3,000	5,000	5,000	1,000
Business/industry	1,000	1,000	S	1,000	500	1,000
4-year college/university	4,000	5,000	4,000	9,000	9,000	S
Other educational institution	S	S	S	S	S	S
Government	9,000	13,000	S	12,000	S	S
Industrial engineering	5,000	3,000	7,000	4,000	5,000	S
Business/industry	4,000	6,000	S	4,000	4,000	S
4-year college/university	7,000	7,000	5,000	9,000	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Mechanical engineering	1,000	2,000	3,000	2,000	1,000	10,000
Business/industry	4,000	3,000	S	3,000	1,000	12,000
4-year college/university	3,000	5,000	3,000	12,000	S	S
Other educational institution	S	S	S	S	S	S
Government	3,000	3,000	S	S	S	S
Other engineering	2,000	2,000	4,000	3,000	1,000	3,000
Business/industry	3,000	3,000	S	4,000	1,000	4,000
4-year college/university	2,000	3,000	3,000	7,000	24,000	17,000
Other educational institution	5,000	S	5,000	S	S	S
Government	2,000	3,000	S	7,000	9,000	S
S&E-related fields	2,000	6,000	3,000	8,000	12,000	12,000
Business/industry	5,000	20,000	22,000	8,000	6,000	16,000
4-year college/university	1,000	1,000	3,000	3,000	20,000	8,000
Other educational institution	6,000	S	8,000	19,000	S	S
Government	5,000	2,000	S	3,000	S	1,000
Health	2,000	3,000	4,000	5,000	5,000	13,000
Business/industry	11,000	10,000	34,000	7,000	7,000	15,000
4-year college/university	4,000	4,000	3,000	5,000	19,000	13,000
Other educational institution	20,000	S	10,000	S	S	S
Government	4,000	2,000	S	2,000	S	1,000
Science/mathematics teacher education	6,000	7,000	6,000	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	4,000	5,000	5,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Technology/technical fields	4,000	S	S	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	S	S	S	S	S	S

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Other S&E-related fields	S	S	S	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Non-S&E fields	2,000	3,000	1,000	8,000	4,000	5,000
Business/industry	5,000	9,000	8,000	6,000	S	6,000
4-year college/university	2,000	5,000	2,000	10,000	S	7,000
Other educational institution	2,000	4,000	3,000	12,000	S	5,000
Government	14,000	S	S	S	S	S
Arts/humanities	5,000	16,000	4,000	12,000	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	7,000	15,000	5,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Education, except science/mathematics teacher education	3,000	2,000	1,000	3,000	S	7,000
Business/industry	12,000	S	S	S	S	15,000
4-year college/university	6,000	3,000	2,000	5,000	S	27,000
Other educational institution	6,000	S	3,000	12,000	S	10,000
Government	S	S	S	S	S	S
Management/administration	9,000	10,000	7,000	6,000	S	S
Business/industry	11,000	S	S	S	S	S
4-year college/university	7,000	7,000	7,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Sales/marketing	S	S	S	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social services/related	6,000	8,000	7,000	5,000	S	11,000
Business/industry	9,000	S	S	S	S	12,000
4-year college/university	9,000	12,000	10,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Other non-S&E fields	10,000	8,000	3,000	23,000	S	7,000
Business/industry	20,000	S	S	S	S	S

TABLE A-22. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003
(Dollars)

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
4-year college/university	6,000	5,000	5,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S

S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Business/industry includes self-employed individuals, nonprofit organizations, and other unspecified. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Government includes federal, military, state, and local employers. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-23. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
All degree levels and fields[b]	1,000	1,000	500	3,000	500	500	1,000	1,000	2,000
S&E fields	500	500	500	6,000	500	1,000	2,000	1,000	5,000
Sciences	1,000	500	1,000	3,000	500	1,000	1,000	500	1,000
Biological/agricultural/environmental life sciences	1,000	500	1,000	8,000	2,000	3,000	3,000	500	2,000
Agricultural sciences	2,000	3,000	4,000	S	8,000	6,000	13,000	2,000	7,000
Biological sciences	500	2,000	1,000	21,000	2,000	2,000	3,000	1,000	2,000
Environmental life sciences	2,000	4,000	2,000	S	12,000	18,000	23,000	2,000	S
Computer/mathematical sciences	500	2,000	2,000	S	2,000	3,000	4,000	1,000	10,000
Computer/information sciences	2,000	1,000	2,000	S	4,000	4,000	4,000	2,000	9,000
Mathematics/statistics	3,000	3,000	3,000	S	4,000	6,000	3,000	1,000	24,000
Physical/related sciences	2,000	1,000	3,000	15,000	4,000	4,000	2,000	2,000	6,000
Chemistry, except biochemistry	2,000	3,000	1,000	S	3,000	6,000	2,000	2,000	12,000
Earth/atmospheric/ocean sciences	3,000	3,000	2,000	S	18,000	4,000	13,000	3,000	7,000
Physics/astronomy	3,000	2,000	7,000	S	11,000	4,000	17,000	3,000	15,000
Other physical sciences	6,000	8,000	5,000	S	12,000	11,000	9,000	10,000	S
Social/related sciences	1,000	2,000	1,000	5,000	1,000	500	2,000	1,000	1,000
Economics	1,000	4,000	3,000	S	4,000	4,000	4,000	4,000	12,000
Political/related sciences	2,000	2,000	2,000	S	4,000	1,000	7,000	2,000	5,000
Psychology	2,000	1,000	500	6,000	4,000	2,000	1,000	1,000	2,000
Sociology/anthropology	1,000	1,000	1,000	11,000	5,000	4,000	3,000	2,000	2,000
Other social sciences	1,000	3,000	1,000	S	6,000	2,000	1,000	2,000	11,000
Engineering	1,000	500	2,000	7,000	2,000	1,000	3,000	500	6,000
Aerospace/aeronautical/astronautical engineering	3,000	4,000	15,000	S	8,000	32,000	7,000	5,000	6,000
Chemical engineering	3,000	3,000	1,000	S	5,000	8,000	8,000	3,000	8,000
Civil/architectural engineering	2,000	500	2,000	S	2,000	4,000	6,000	1,000	20,000
Electrical/computer engineering	2,000	500	2,000	S	2,000	3,000	4,000	500	10,000
Industrial engineering	3,000	2,000	8,000	S	8,000	3,000	8,000	3,000	S
Mechanical engineering	2,000	1,000	5,000	S	1,000	8,000	3,000	500	12,000
Other engineering	2,000	2,000	4,000	S	3,000	14,000	6,000	1,000	4,000
S&E-related fields	500	1,000	1,000	8,000	500	2,000	2,000	500	2,000
Health	1,000	2,000	2,000	12,000	1,000	1,000	4,000	1,000	1,000
Science/mathematics teacher education	1,000	2,000	1,000	S	3,000	3,000	4,000	2,000	S
Technology/technical fields	2,000	2,000	6,000	S	4,000	5,000	4,000	3,000	10,000
Other S&E-related fields	3,000	4,000	3,000	S	2,000	10,000	6,000	3,000	S
Non-S&E fields	1,000	1,000	1,000	5,000	2,000	1,000	2,000	500	7,000
Arts/humanities	1,000	3,000	1,000	S	6,000	12,000	3,000	1,000	4,000
Education, except science/mathematics teacher education	1,000	500	1,000	10,000	4,000	2,000	1,000	1,000	2,000
Management/administration	1,000	1,000	1,000	44,000	4,000	2,000	6,000	1,000	15,000
Sales/marketing	4,000	8,000	6,000	S	9,000	28,000	26,000	5,000	S
Social services/related	1,000	2,000	1,000	S	2,000	2,000	1,000	2,000	11,000
Other non-S&E fields	3,000	3,000	2,000	S	3,000	4,000	8,000	2,000	14,000
Bachelor's degrees	500	500	500	3,000	500	1,000	2,000	500	3,000
S&E fields	500	1,000	1,000	7,000	1,000	2,000	3,000	500	3,000
Sciences	500	1,000	500	3,000	2,000	500	1,000	1,000	1,000

TABLE A-23. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Biological/agricultural/environmental life sciences	1,000	2,000	1,000	12,000	2,000	2,000	3,000	1,000	3,000
Agricultural sciences	3,000	3,000	5,000	S	12,000	2,000	6,000	3,000	S
Biological sciences	1,000	2,000	1,000	S	2,000	3,000	3,000	1,000	5,000
Environmental life sciences	2,000	4,000	2,000	S	S	S	25,000	2,000	S
Computer/mathematical sciences	500	2,000	5,000	S	3,000	2,000	2,000	2,000	8,000
Computer/information sciences	2,000	1,000	2,000	S	500	3,000	6,000	2,000	9,000
Mathematics/statistics	3,000	2,000	3,000	S	2,000	5,000	7,000	4,000	23,000
Physical/related sciences	1,000	3,000	1,000	S	3,000	4,000	4,000	3,000	8,000
Chemistry, except biochemistry	1,000	3,000	4,000	S	3,000	3,000	4,000	4,000	9,000
Earth/atmospheric/ocean sciences	2,000	3,000	3,000	S	S	S	5,000	1,000	S
Physics/astronomy	6,000	3,000	11,000	S	10,000	11,000	18,000	7,000	S
Other physical sciences	6,000	14,000	4,000	S	S	17,000	S	13,000	S
Social/related sciences	500	2,000	1,000	3,000	2,000	2,000	1,000	1,000	2,000
Economics	3,000	4,000	2,000	S	5,000	7,000	3,000	3,000	13,000
Political/related sciences	2,000	4,000	3,000	S	4,000	1,000	8,000	3,000	5,000
Psychology	500	3,000	1,000	S	3,000	2,000	1,000	500	6,000
Sociology/anthropology	1,000	2,000	1,000	S	3,000	4,000	3,000	2,000	2,000
Other social sciences	2,000	4,000	2,000	S	7,000	2,000	2,000	2,000	14,000
Engineering	500	1,000	3,000	6,000	1,000	3,000	1,000	1,000	4,000
Aerospace/aeronautical/astronautical engineering	3,000	3,000	11,000	S	10,000	S	6,000	5,000	S
Chemical engineering	3,000	3,000	3,000	S	5,000	8,000	12,000	3,000	S
Civil/architectural engineering	2,000	3,000	2,000	S	3,000	3,000	5,000	2,000	19,000
Electrical/computer engineering	1,000	500	5,000	S	1,000	2,000	4,000	1,000	11,000
Industrial engineering	2,000	3,000	7,000	S	8,000	14,000	12,000	4,000	S
Mechanical engineering	2,000	2,000	3,000	S	4,000	7,000	3,000	3,000	10,000
Other engineering	2,000	2,000	3,000	S	5,000	6,000	6,000	2,000	S
S&E-related fields	500	1,000	1,000	2,000	2,000	2,000	2,000	1,000	7,000
Health	1,000	2,000	500	6,000	2,000	1,000	3,000	1,000	9,000
Science/mathematics teacher education	2,000	3,000	3,000	S	S	4,000	3,000	2,000	S
Technology/technical fields	2,000	2,000	4,000	S	7,000	5,000	3,000	3,000	S
Other S&E-related fields	4,000	3,000	3,000	S	3,000	9,000	7,000	4,000	S
Non-S&E fields	1,000	2,000	1,000	S	5,000	3,000	3,000	1,000	5,000
Arts/humanities	2,000	4,000	2,000	S	9,000	12,000	1,000	2,000	S
Education, except science/mathematics teacher education	1,000	1,000	2,000	S	4,000	3,000	4,000	1,000	S
Management/administration	500	2,000	2,000	S	5,000	4,000	5,000	2,000	17,000
Sales/marketing	4,000	6,000	7,000	S	S	S	S	4,000	S
Social services/related	3,000	4,000	6,000	S	S	S	S	2,000	S
Other non-S&E fields	2,000	2,000	1,000	S	9,000	2,000	8,000	2,000	S
Master's degrees	500	1,000	500	8,000	2,000	2,000	2,000	500	6,000
S&E fields	2,000	1,000	1,000	8,000	1,000	2,000	4,000	1,000	9,000
Sciences	1,000	1,000	1,000	12,000	3,000	3,000	3,000	2,000	4,000
Biological/agricultural/environmental life sciences	1,000	2,000	3,000	S	7,000	3,000	8,000	2,000	10,000
Agricultural sciences	2,000	3,000	10,000	S	S	S	S	5,000	S
Biological sciences	1,000	2,000	2,000	S	3,000	3,000	14,000	1,000	S
Environmental life sciences	4,000	5,000	6,000	S	S	S	S	5,000	S

TABLE A-23. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Computer/mathematical sciences	1,000	1,000	4,000	S	2,000	6,000	3,000	3,000	3,000
Computer/information sciences	2,000	3,000	4,000	S	1,000	2,000	4,000	3,000	6,000
Mathematics/statistics	3,000	2,000	3,000	S	7,000	6,000	7,000	4,000	S
Physical/related sciences	2,000	3,000	5,000	S	5,000	6,000	12,000	3,000	S
Chemistry, except biochemistry	3,000	3,000	4,000	S	6,000	S	S	3,000	S
Earth/atmospheric/ocean sciences	2,000	3,000	6,000	S	S	S	S	2,000	S
Physics/astronomy	5,000	5,000	21,000	S	5,000	S	S	6,000	S
Other physical sciences	16,000	S	S	S	S	S	S	17,000	S
Social/related sciences	2,000	3,000	1,000	S	6,000	3,000	3,000	2,000	7,000
Economics	9,000	10,000	10,000	S	7,000	7,000	S	7,000	S
Political/related sciences	4,000	3,000	6,000	S	2,000	11,000	14,000	5,000	S
Psychology	1,000	4,000	1,000	S	5,000	3,000	4,000	2,000	10,000
Sociology/anthropology	3,000	6,000	3,000	S	S	10,000	5,000	4,000	S
Other social sciences	5,000	10,000	5,000	S	11,000	9,000	13,000	4,000	S
Engineering	500	1,000	2,000	S	2,000	6,000	4,000	2,000	6,000
Aerospace/aeronautical/astronautical engineering	3,000	2,000	4,000	S	21,000	S	S	2,000	S
Chemical engineering	8,000	5,000	2,000	S	11,000	S	1,000	9,000	S
Civil/architectural engineering	2,000	2,000	5,000	S	3,000	11,000	26,000	3,000	S
Electrical/computer engineering	2,000	1,000	3,000	S	3,000	8,000	3,000	2,000	S
Industrial engineering	3,000	3,000	12,000	S	6,000	S	5,000	4,000	S
Mechanical engineering	2,000	2,000	5,000	S	4,000	S	7,000	2,000	S
Other engineering	3,000	3,000	3,000	S	1,000	10,000	6,000	4,000	S
S&E-related fields	2,000	3,000	1,000	S	3,000	2,000	5,000	1,000	8,000
Health	3,000	3,000	500	S	9,000	2,000	7,000	2,000	12,000
Science/mathematics teacher education	2,000	3,000	2,000	S	S	5,000	14,000	2,000	S
Technology/technical fields	3,000	3,000	10,000	S	5,000	S	S	4,000	S
Other S&E-related fields	3,000	6,000	2,000	S	7,000	S	S	5,000	S
Non-S&E fields	500	2,000	1,000	8,000	2,000	2,000	3,000	500	10,000
Arts/humanities	3,000	5,000	5,000	S	9,000	S	7,000	4,000	S
Education, except science/mathematics teacher education	1,000	1,000	1,000	S	5,000	3,000	2,000	1,000	5,000
Management/administration	1,000	3,000	3,000	S	2,000	6,000	5,000	2,000	20,000
Sales/marketing	6,000	8,000	5,000	S	7,000	S	S	7,000	S
Social services/related	1,000	1,000	2,000	S	3,000	2,000	1,000	2,000	S
Other non-S&E fields	2,000	5,000	3,000	S	6,000	5,000	8,000	4,000	S
Doctorate degrees	1,000	500	500	5,000	2,000	2,000	2,000	1,000	4,000
S&E fields	1,000	1,000	500	6,000	2,000	4,000	2,000	500	4,000
Sciences	500	1,000	500	5,000	500	4,000	1,000	1,000	4,000
Biological/agricultural/environmental life sciences	500	1,000	2,000	S	5,000	7,000	1,000	1,000	8,000
Agricultural sciences	1,000	2,000	6,000	S	2,000	13,000	1,000	2,000	S
Biological sciences	500	500	3,000	S	3,000	10,000	6,000	2,000	11,000
Environmental life sciences	1,000	2,000	3,000	S	7,000	S	S	2,000	S
Computer/mathematical sciences	2,000	2,000	9,000	S	2,000	19,000	18,000	3,000	39,000
Computer/information sciences	6,000	6,000	5,000	S	6,000	14,000	1,000	8,000	S
Mathematics/statistics	3,000	2,000	11,000	S	2,000	3,000	6,000	2,000	S
Physical/related sciences	1,000	500	3,000	S	3,000	1,000	4,000	1,000	18,000
Chemistry, except biochemistry	1,000	500	3,000	S	4,000	1,000	10,000	1,000	13,000

TABLE A-23. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2003

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity[a]					
		Male	Female	American Indian/Alaska Native	Asian	Black	Hispanic	White	Other
Earth/atmospheric/ocean sciences	3,000	3,000	2,000	S	11,000	S	2,000	3,000	S
Physics/astronomy	2,000	2,000	4,000	S	5,000	23,000	9,000	3,000	22,000
Other physical sciences	29,000	36,000	14,000	S	S	S	S	31,000	S
Social/related sciences	1,000	1,000	500	3,000	3,000	2,000	2,000	1,000	2,000
Economics	3,000	3,000	5,000	S	6,000	2,000	5,000	5,000	S
Political/related sciences	1,000	3,000	3,000	S	6,000	8,000	8,000	4,000	S
Psychology	500	2,000	1,000	S	7,000	4,000	3,000	2,000	6,000
Sociology/anthropology	500	1,000	3,000	S	3,000	5,000	4,000	500	6,000
Other social sciences	3,000	5,000	2,000	S	11,000	2,000	9,000	2,000	S
Engineering	2,000	2,000	500	S	1,000	6,000	6,000	2,000	5,000
Aerospace/aeronautical/astronautical engineering	8,000	9,000	S	S	1,000	S	S	7,000	S
Chemical engineering	4,000	3,000	3,000	S	5,000	14,000	24,000	5,000	S
Civil/architectural engineering	1,000	1,000	3,000	S	3,000	4,000	11,000	3,000	S
Electrical/computer engineering	500	500	7,000	S	500	11,000	2,000	2,000	6,000
Industrial engineering	5,000	6,000	4,000	S	6,000	S	S	8,000	S
Mechanical engineering	1,000	2,000	5,000	S	3,000	S	18,000	4,000	S
Other engineering	2,000	2,000	5,000	S	1,000	7,000	12,000	2,000	S
S&E-related fields	2,000	9,000	6,000	S	10,000	12,000	30,000	3,000	10,000
Health	2,000	7,000	5,000	S	10,000	21,000	34,000	1,000	11,000
Science/mathematics teacher education	6,000	4,000	2,000	S	S	S	S	6,000	S
Technology/technical fields	4,000	4,000	S	S	S	S	S	S	S
Other S&E-related fields	S	S	S	S	S	S	S	S	S
Non-S&E fields	2,000	4,000	3,000	S	6,000	2,000	4,000	2,000	S
Arts/humanities	5,000	1,000	3,000	S	S	S	S	5,000	S
Education, except science/mathematics teacher education	3,000	10,000	4,000	S	S	4,000	3,000	5,000	S
Management/administration	9,000	9,000	S	S	9,000	S	S	11,000	S
Sales/marketing	S	S	S	S	S	S	S	S	S
Social services/related	6,000	6,000	5,000	S	S	S	S	10,000	S
Other non-S&E fields	10,000	18,000	7,000	S	S	S	S	7,000	S

S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] "Other" includes Native Hawaiian/Other Pacific Islander, and non-Hispanic respondents reporting 2 or more races.

[b] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003.
See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. Standard errors of less than 500 are rounded up to 500 and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-24. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All degree levels and fields[a]	1,000	1,000	500	1,000	500	1,000	2,000	1,000	1,000	500
S&E fields	500	500	2,000	1,000	1,000	2,000	2,000	2,000	2,000	2,000
Sciences	1,000	2,000	2,000	1,000	1,000	2,000	2,000	3,000	1,000	500
Biological/agricultural/environmental life sciences	1,000	4,000	2,000	2,000	5,000	1,000	6,000	2,000	3,000	2,000
Agricultural sciences	2,000	15,000	4,000	5,000	4,000	3,000	13,000	9,000	7,000	10,000
Biological sciences	500	3,000	3,000	2,000	3,000	1,000	5,000	2,000	5,000	3,000
Environmental life sciences	2,000	4,000	8,000	3,000	5,000	4,000	8,000	4,000	7,000	3,000
Computer/mathematical sciences	500	4,000	2,000	3,000	4,000	3,000	5,000	4,000	2,000	1,000
Computer/information sciences	2,000	5,000	1,000	4,000	3,000	1,000	3,000	3,000	4,000	4,000
Mathematics/statistics	3,000	8,000	5,000	4,000	3,000	4,000	4,000	5,000	10,000	6,000
Physical/related sciences	2,000	7,000	4,000	3,000	2,000	4,000	7,000	4,000	7,000	4,000
Chemistry, except biochemistry	2,000	6,000	4,000	4,000	7,000	2,000	16,000	3,000	7,000	2,000
Earth/atmospheric/ocean sciences	3,000	10,000	6,000	7,000	2,000	7,000	27,000	6,000	5,000	7,000
Physics/astronomy	3,000	14,000	8,000	6,000	10,000	7,000	9,000	8,000	9,000	3,000
Other physical sciences	6,000	23,000	31,000	S	S	13,000	S	19,000	15,000	11,000
Social/related sciences	1,000	3,000	3,000	1,000	2,000	1,000	2,000	2,000	2,000	3,000
Economics	1,000	8,000	7,000	4,000	15,000	5,000	10,000	7,000	7,000	8,000
Political/related sciences	2,000	8,000	4,000	4,000	14,000	3,000	21,000	4,000	14,000	4,000
Psychology	2,000	3,000	2,000	2,000	4,000	2,000	3,000	1,000	2,000	2,000
Sociology/anthropology	1,000	7,000	3,000	2,000	3,000	3,000	2,000	2,000	3,000	2,000
Other social sciences	1,000	12,000	4,000	6,000	5,000	4,000	5,000	4,000	4,000	6,000
Engineering	1,000	3,000	2,000	1,000	3,000	2,000	3,000	2,000	2,000	500
Aerospace/aeronautical/astronautical engineering	3,000	7,000	11,000	16,000	17,000	5,000	8,000	6,000	6,000	7,000
Chemical engineering	3,000	6,000	7,000	4,000	4,000	3,000	8,000	7,000	10,000	7,000
Civil/architectural engineering	2,000	8,000	3,000	3,000	5,000	5,000	5,000	3,000	5,000	4,000
Electrical/computer engineering	2,000	3,000	2,000	3,000	6,000	2,000	4,000	4,000	1,000	2,000
Industrial engineering	3,000	9,000	2,000	4,000	8,000	8,000	13,000	11,000	4,000	9,000
Mechanical engineering	2,000	6,000	6,000	1,000	5,000	3,000	5,000	3,000	4,000	4,000
Other engineering	2,000	4,000	2,000	4,000	5,000	3,000	7,000	5,000	8,000	4,000
S&E-related fields	500	4,000	2,000	2,000	3,000	2,000	2,000	3,000	2,000	4,000
Health	1,000	5,000	3,000	1,000	4,000	2,000	3,000	2,000	2,000	2,000
Science/mathematics teacher education	1,000	5,000	3,000	3,000	5,000	1,000	3,000	3,000	6,000	5,000
Technology/technical fields	2,000	7,000	4,000	5,000	3,000	4,000	4,000	500	4,000	5,000
Other S&E-related fields	3,000	17,000	5,000	1,000	5,000	7,000	S	8,000	8,000	3,000
Non-S&E fields	1,000	2,000	1,000	2,000	2,000	1,000	3,000	2,000	3,000	1,000
Arts/humanities	1,000	4,000	9,000	4,000	7,000	4,000	13,000	6,000	5,000	6,000

TABLE A-24. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Education, except science/mathematics teacher education	1,000	2,000	1,000	3,000	2,000	2,000	1,000	1,000	2,000	3,000
Management/administration	1,000	4,000	3,000	2,000	4,000	2,000	5,000	4,000	3,000	3,000
Sales/marketing	4,000	6,000	6,000	6,000	18,000	27,000	S	7,000	12,000	14,000
Social services/related	1,000	5,000	3,000	3,000	4,000	2,000	6,000	5,000	4,000	2,000
Other non-S&E fields	3,000	6,000	5,000	5,000	5,000	3,000	4,000	8,000	3,000	4,000
Bachelor's degrees	500	2,000	1,000	500	2,000	1,000	2,000	1,000	2,000	2,000
S&E fields	500	2,000	2,000	1,000	2,000	500	3,000	1,000	4,000	1,000
Sciences	500	3,000	4,000	1,000	2,000	1,000	2,000	2,000	2,000	1,000
Biological/agricultural/environmental life sciences	1,000	3,000	3,000	2,000	3,000	2,000	7,000	3,000	3,000	3,000
Agricultural sciences	3,000	14,000	2,000	4,000	4,000	4,000	6,000	7,000	12,000	11,000
Biological sciences	1,000	5,000	3,000	2,000	5,000	1,000	6,000	3,000	3,000	2,000
Environmental life sciences	2,000	3,000	8,000	4,000	5,000	3,000	S	5,000	3,000	3,000
Computer/mathematical sciences	500	4,000	4,000	1,000	5,000	3,000	8,000	4,000	4,000	4,000
Computer/information sciences	2,000	4,000	2,000	5,000	4,000	2,000	3,000	4,000	4,000	3,000
Mathematics/statistics	3,000	9,000	4,000	6,000	4,000	7,000	4,000	4,000	8,000	8,000
Physical/related sciences	1,000	6,000	5,000	3,000	4,000	2,000	14,000	2,000	3,000	6,000
Chemistry, except biochemistry	1,000	16,000	3,000	4,000	7,000	2,000	19,000	9,000	10,000	6,000
Earth/atmospheric/ocean sciences	2,000	5,000	4,000	11,000	6,000	8,000	S	2,000	8,000	13,000
Physics/astronomy	6,000	29,000	21,000	20,000	10,000	11,000	14,000	20,000	25,000	8,000
Other physical sciences	6,000	S	S	S	S	17,000	S	S	S	9,000
Social/related sciences	500	3,000	3,000	2,000	2,000	1,000	3,000	2,000	2,000	1,000
Economics	3,000	10,000	8,000	5,000	15,000	6,000	8,000	5,000	7,000	8,000
Political/related sciences	2,000	7,000	4,000	4,000	11,000	5,000	15,000	5,000	8,000	4,000
Psychology	500	4,000	3,000	2,000	3,000	2,000	4,000	4,000	5,000	3,000
Sociology/anthropology	1,000	7,000	3,000	2,000	3,000	3,000	2,000	1,000	5,000	2,000
Other social sciences	2,000	22,000	2,000	5,000	6,000	4,000	7,000	5,000	5,000	5,000
Engineering	500	4,000	2,000	2,000	4,000	2,000	4,000	2,000	2,000	1,000
Aerospace/aeronautical/astronautical engineering	3,000	9,000	10,000	30,000	24,000	8,000	11,000	9,000	9,000	5,000
Chemical engineering	3,000	10,000	9,000	4,000	4,000	4,000	10,000	6,000	10,000	7,000
Civil/architectural engineering	2,000	11,000	3,000	3,000	5,000	4,000	5,000	4,000	4,000	4,000
Electrical/computer engineering	1,000	3,000	4,000	2,000	6,000	3,000	4,000	3,000	2,000	1,000
Industrial engineering	2,000	10,000	3,000	3,000	8,000	9,000	15,000	5,000	10,000	15,000
Mechanical engineering	2,000	5,000	4,000	1,000	8,000	4,000	5,000	4,000	4,000	2,000
Other engineering	2,000	8,000	4,000	6,000	7,000	5,000	14,000	5,000	6,000	3,000
S&E-related fields	500	4,000	1,000	1,000	3,000	1,000	2,000	2,000	4,000	3,000
Health	1,000	3,000	1,000	2,000	2,000	1,000	3,000	2,000	3,000	3,000

TABLE A-24. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Science/mathematics teacher education	2,000	S	4,000	4,000	3,000	2,000	S	3,000	S	3,000
Technology/technical fields	2,000	4,000	5,000	4,000	2,000	4,000	7,000	1,000	4,000	8,000
Other S&E-related fields	4,000	17,000	6,000	3,000	7,000	7,000	S	7,000	9,000	5,000
Non-S&E fields	1,000	3,000	4,000	1,000	4,000	3,000	3,000	2,000	2,000	3,000
Arts/humanities	2,000	3,000	8,000	4,000	11,000	5,000	10,000	8,000	5,000	7,000
Education, except science/mathematics teacher education	1,000	6,000	4,000	3,000	3,000	3,000	3,000	3,000	4,000	5,000
Management/administration	500	3,000	6,000	3,000	4,000	4,000	2,000	6,000	13,000	6,000
Sales/marketing	4,000	S	8,000	10,000	S	7,000	S	S	S	S
Social services/related	3,000	S	S	S	S	4,000	S	S	S	5,000
Other non-S&E fields	2,000	12,000	3,000	5,000	4,000	5,000	8,000	2,000	6,000	3,000
Master's degrees	500	1,000	2,000	2,000	2,000	1,000	500	2,000	3,000	1,000
S&E fields	2,000	3,000	1,000	2,000	2,000	1,000	3,000	4,000	3,000	2,000
Sciences	1,000	2,000	3,000	3,000	3,000	2,000	4,000	2,000	4,000	4,000
Biological/agricultural/environmental life sciences	1,000	4,000	5,000	3,000	4,000	3,000	6,000	3,000	11,000	2,000
Agricultural sciences	2,000	S	S	15,000	22,000	8,000	S	11,000	S	10,000
Biological sciences	1,000	6,000	7,000	3,000	4,000	4,000	5,000	4,000	5,000	1,000
Environmental life sciences	4,000	S	S	S	S	10,000	S	S	26,000	16,000
Computer/mathematical sciences	1,000	9,000	4,000	2,000	7,000	3,000	9,000	6,000	7,000	3,000
Computer/information sciences	2,000	9,000	4,000	5,000	9,000	2,000	6,000	6,000	8,000	3,000
Mathematics/statistics	3,000	11,000	4,000	4,000	7,000	6,000	22,000	13,000	18,000	11,000
Physical/related sciences	2,000	14,000	4,000	4,000	7,000	6,000	23,000	6,000	10,000	4,000
Chemistry, except biochemistry	3,000	17,000	6,000	8,000	S	10,000	S	4,000	S	12,000
Earth/atmospheric/ocean sciences	2,000	13,000	8,000	6,000	S	14,000	S	9,000	19,000	5,000
Physics/astronomy	5,000	65,000	21,000	7,000	S	20,000	S	4,000	S	19,000
Other physical sciences	16,000	S	S	S	S	S	S	S	S	S
Social/related sciences	2,000	4,000	2,000	3,000	2,000	4,000	6,000	3,000	4,000	4,000
Economics	9,000	18,000	12,000	17,000	S	5,000	S	33,000	16,000	13,000
Political/related sciences	4,000	12,000	13,000	4,000	S	7,000	S	7,000	S	11,000
Psychology	1,000	4,000	3,000	3,000	2,000	1,000	8,000	3,000	4,000	3,000
Sociology/anthropology	3,000	S	5,000	9,000	S	6,000	S	8,000	11,000	6,000
Other social sciences	5,000	14,000	11,000	8,000	S	8,000	S	10,000	S	9,000
Engineering	500	5,000	1,000	1,000	3,000	1,000	3,000	2,000	5,000	2,000
Aerospace/aeronautical/astronautical engineering	3,000	S	S	S	S	14,000	S	19,000	7,000	4,000
Chemical engineering	8,000	S	9,000	6,000	S	6,000	S	9,000	S	17,000
Civil/architectural engineering	2,000	7,000	4,000	9,000	9,000	7,000	10,000	10,000	16,000	4,000
Electrical/computer engineering	2,000	6,000	4,000	6,000	7,000	5,000	4,000	3,000	2,000	3,000

TABLE A-24. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Industrial engineering	3,000	S	4,000	5,000	S	19,000	20,000	10,000	S	4,000
Mechanical engineering	2,000	6,000	10,000	3,000	5,000	4,000	S	9,000	6,000	7,000
Other engineering	3,000	2,000	5,000	4,000	8,000	6,000	8,000	7,000	7,000	3,000
S&E-related fields	2,000	3,000	2,000	2,000	4,000	1,000	3,000	2,000	3,000	1,000
Health	3,000	2,000	3,000	2,000	6,000	1,000	7,000	4,000	5,000	2,000
Science/mathematics teacher education	2,000	7,000	9,000	2,000	6,000	4,000	1,000	8,000	2,000	5,000
Technology/technical fields	3,000	S	4,000	6,000	S	11,000	S	13,000	S	7,000
Other S&E-related fields	3,000	35,000	6,000	6,000	S	11,000	S	11,000	S	7,000
Non-S&E fields	500	3,000	2,000	1,000	2,000	1,000	2,000	3,000	4,000	2,000
Arts/humanities	3,000	S	14,000	10,000	S	8,000	S	13,000	S	18,000
Education, except science/mathematics teacher education	1,000	2,000	2,000	2,000	3,000	2,000	1,000	2,000	2,000	2,000
Management/administration	1,000	4,000	5,000	4,000	2,000	3,000	8,000	3,000	5,000	4,000
Sales/marketing	6,000	5,000	8,000	11,000	S	9,000	S	S	S	16,000
Social services/related	1,000	3,000	2,000	3,000	4,000	2,000	4,000	7,000	11,000	2,000
Other non-S&E fields	2,000	13,000	7,000	6,000	2,000	3,000	S	4,000	10,000	6,000
Doctorate degrees	1,000	3,000	3,000	1,000	2,000	1,000	2,000	2,000	3,000	1,000
S&E fields	1,000	2,000	2,000	1,000	2,000	500	2,000	1,000	2,000	1,000
Sciences	500	2,000	1,000	2,000	2,000	1,000	2,000	500	3,000	1,000
Biological/agricultural/environmental life sciences	500	2,000	2,000	2,000	4,000	1,000	6,000	3,000	5,000	2,000
Agricultural sciences	1,000	S	10,000	4,000	4,000	3,000	5,000	4,000	1,000	7,000
Biological sciences	500	2,000	2,000	3,000	4,000	3,000	9,000	5,000	2,000	3,000
Environmental life sciences	1,000	S	S	9,000	S	8,000	S	7,000	2,000	3,000
Computer/mathematical sciences	2,000	5,000	11,000	3,000	10,000	3,000	1,000	4,000	4,000	7,000
Computer/information sciences	6,000	12,000	9,000	10,000	27,000	8,000	4,000	6,000	8,000	9,000
Mathematics/statistics	3,000	6,000	13,000	3,000	8,000	3,000	2,000	5,000	9,000	3,000
Physical/related sciences	1,000	3,000	2,000	1,000	3,000	3,000	3,000	3,000	5,000	3,000
Chemistry, except biochemistry	1,000	3,000	3,000	4,000	4,000	3,000	4,000	7,000	6,000	2,000
Earth/atmospheric/ocean sciences	3,000	7,000	9,000	15,000	5,000	7,000	10,000	6,000	7,000	7,000
Physics/astronomy	2,000	10,000	6,000	3,000	6,000	4,000	6,000	7,000	7,000	5,000
Other physical sciences	29,000	S	S	S	S	S	S	S	S	S
Social/related sciences	1,000	4,000	1,000	2,000	2,000	1,000	3,000	3,000	3,000	1,000
Economics	3,000	5,000	10,000	4,000	8,000	3,000	5,000	6,000	7,000	9,000
Political/related sciences	1,000	10,000	5,000	5,000	5,000	5,000	5,000	2,000	5,000	6,000
Psychology	500	3,000	2,000	2,000	1,000	3,000	5,000	3,000	3,000	500
Sociology/anthropology	500	1,000	4,000	3,000	4,000	3,000	5,000	7,000	5,000	3,000
Other social sciences	3,000	3,000	6,000	4,000	5,000	3,000	17,000	5,000	4,000	8,000

TABLE A-24. Standard errors for median annual salaries of U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003
(Dollars)

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Engineering	2,000	3,000	5,000	1,000	5,000	1,000	2,000	3,000	6,000	500
Aerospace/aeronautical/astronautical engineering	8,000	S	S	8,000	S	9,000	S	S	S	16,000
Chemical engineering	4,000	7,000	4,000	7,000	18,000	6,000	2,000	8,000	5,000	5,000
Civil/architectural engineering	1,000	6,000	1,000	8,000	S	5,000	8,000	4,000	6,000	5,000
Electrical/computer engineering	500	1,000	2,000	5,000	19,000	11,000	7,000	1,000	6,000	6,000
Industrial engineering	5,000	S	S	11,000	S	12,000	S	19,000	S	6,000
Mechanical engineering	1,000	4,000	2,000	2,000	4,000	6,000	7,000	9,000	10,000	5,000
Other engineering	2,000	3,000	3,000	2,000	4,000	3,000	8,000	4,000	12,000	3,000
S&E-related fields	2,000	11,000	2,000	9,000	11,000	7,000	12,000	64,000	8,000	11,000
Health	2,000	7,000	1,000	7,000	6,000	7,000	9,000	10,000	9,000	7,000
Science/mathematics teacher education	6,000	S	S	S	S	S	S	S	S	S
Technology/technical fields	4,000	S	S	S	S	S	S	S	S	S
Other S&E-related fields	S	S	S	S	S	S	S	S	S	S
Non-S&E fields	2,000	13,000	12,000	8,000	4,000	2,000	5,000	4,000	7,000	6,000
Arts/humanities	5,000	S	S	S	S	S	S	S	S	S
Education, except science/mathematics teacher education	3,000	S	8,000	18,000	6,000	7,000	S	5,000	S	14,000
Management/administration	9,000	S	S	S	S	5,000	S	S	S	S
Sales/marketing	S	S	S	S	S	S	S	S	S	S
Social services/related	6,000	S	S	S	S	5,000	S	S	S	S
Other non-S&E fields	10,000	S	S	S	S	4,000	S	S	S	S

S= standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification. See http://sestat.nsf.gov/docs/location.html for details on states included in each division. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-25. Standard errors of median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
All degree levels and occupations[a]	1,000	1,000	1,000	3,000	500	1,000	1,000	1,000	500	1,000	1,000
S&E occupations	1,000	1,000	1,000	1,000	3,000	2,000	1,000	1,000	1,000	1,000	1,000
Scientists	1,000	500	500	4,000	2,000	1,000	1,000	1,000	1,000	1,000	1,000
Biological/agricultural/other life scientists	2,000	3,000	3,000	22,000	3,000	1,000	2,000	4,000	1,000	1,000	2,000
Agricultural/food scientists	2,000	2,000	3,000	S	S	2,000	2,000	S	4,000	7,000	10,000
Biological/medical scientists	2,000	4,000	2,000	17,000	5,000	2,000	3,000	S	1,000	1,000	3,000
Environmental life scientists	4,000	10,000	11,000	S	4,000	2,000	3,000	S	3,000	5,000	6,000
Postsecondary teachers-life/related sciences	3,000	S	S	S	S	2,000	3,000	4,000	S	S	S
Computer/mathematical scientists	1,000	1,000	1,000	3,000	3,000	1,000	2,000	2,000	2,000	2,000	2,000
Computer/information scientists	500	1,000	1,000	4,000	3,000	1,000	2,000	4,000	2,000	3,000	2,000
Mathematical scientists	6,000	4,000	5,000	51,000	29,000	4,000	12,000	S	7,000	7,000	5,000
Postsecondary teachers-computer/mathematical sciences	1,000	S	S	S	S	2,000	3,000	1,000	S	S	S
Physical/related scientists	2,000	3,000	2,000	4,000	5,000	1,000	1,000	4,000	4,000	3,000	2,000
Chemists, except biochemists	1,000	3,000	3,000	7,000	22,000	4,000	4,000	S	3,000	8,000	2,000
Earth/atmospheric/ocean scientists	3,000	5,000	7,000	3,000	22,000	1,000	1,000	S	5,000	3,000	3,000
Physicists/astronomers	6,000	4,000	5,000	S	6,000	4,000	4,000	S	5,000	5,000	S
Postsecondary teachers-physical/related sciences	2,000	S	S	S	S	3,000	4,000	4,000	S	S	S
Other physical/related scientists	5,000	1,000	2,000	S	5,000	500	500	S	6,000	4,000	5,000
Social/related scientists	500	3,000	4,000	1,000	1,000	1,000	1,000	1,000	3,000	4,000	4,000
Economists	5,000	12,000	18,000	30,000	5,000	16,000	15,000	S	5,000	7,000	7,000
Political/related scientists	2,000	6,000	S	S	16,000	6,000	6,000	S	3,000	56,000	S
Postsecondary teachers-social/related sciences	2,000	S	S	S	S	1,000	1,000	5,000	S	S	S
Psychologists	1,000	4,000	1,000	8,000	4,000	1,000	5,000	1,000	5,000	5,000	5,000
Sociologists/anthropologists	6,000	13,000	24,000	S	26,000	6,000	5,000	S	21,000	11,000	6,000
Other social/related scientists	2,000	5,000	7,000	18,000	1,000	7,000	9,000	S	5,000	10,000	6,000
Engineers	1,000	1,000	500	6,000	2,000	4,000	2,000	7,000	2,000	2,000	2,000
Aerospace/aeronautical/astronautical engineers	3,000	2,000	1,000	S	19,000	46,000	35,000	S	5,000	5,000	S
Chemical engineers	2,000	2,000	3,000	S	S	2,000	2,000	S	10,000	14,000	S
Civil/architectural/sanitary engineers	2,000	2,000	3,000	8,000	S	17,000	15,000	S	3,000	4,000	1,000
Electrical/computer hardware engineers	1,000	500	500	12,000	5,000	14,000	10,000	S	3,000	2,000	4,000
Industrial engineers	2,000	2,000	2,000	S	S	39,000	39,000	S	3,000	4,000	S
Mechanical engineers	1,000	2,000	2,000	11,000	5,000	13,000	13,000	S	5,000	7,000	5,000
Postsecondary teachers-engineering	2,000	S	S	S	S	2,000	2,000	3,000	S	S	S
Other engineers	2,000	2,000	3,000	8,000	8,000	5,000	5,000	S	3,000	2,000	4,000
S&E-related occupations	1,000	500	1,000	5,000	500	2,000	1,000	1,000	1,000	2,000	1,000

TABLE A-25. Standard errors of median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Health-related occupations	1,000	500	500	4,000	1,000	1,000	1,000	1,000	1,000	3,000	1,000
S&E managers	1,000	2,000	2,000	86,000	3,000	5,000	5,000	S	4,000	3,000	2,000
S&E precollege teachers	1,000	S	S	S	S	1,000	S	1,000	S	S	S
S&E technicians/technologists	1,000	2,000	1,000	4,000	4,000	1,000	2,000	S	3,000	3,000	3,000
Other S&E-related occupations	1,000	1,000	3,000	2,000	S	S	S	S	3,000	S	5,000
Non-S&E occupations	500	2,000	500	1,000	1,000	500	1,000	500	1,000	2,000	1,000
Art/humanities/related occupations	3,000	4,000	3,000	5,000	9,000	9,000	9,000	S	9,000	19,000	6,000
Management-related occupations	2,000	2,000	1,000	4,000	5,000	2,000	1,000	9,000	1,000	3,000	3,000
Non-S&E managers	2,000	3,000	5,000	10,000	4,000	3,000	7,000	3,000	7,000	4,000	4,000
Non-S&E postsecondary teachers	1,000	7,000	S	S	S	1,000	1,000	3,000	S	S	S
Non-S&E precollege/other teachers	1,000	4,000	3,000	S	16,000	1,000	S	1,000	5,000	S	5,000
Sales/marketing occupations	4,000	3,000	3,000	4,000	6,000	4,000	S	S	4,000	S	S
Social services/related occupations	1,000	1,000	2,000	4,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Other non-S&E occupations	500	2,000	500	2,000	500	1,000	2,000	5,000	1,000	3,000	2,000
Bachelor's degrees, all occupations	500	1,000	500	2,000	1,000	1,000	1,000	1,000	500	2,000	500
S&E occupations	1,000	500	500	6,000	2,000	1,000	2,000	2,000	2,000	1,000	1,000
Scientists	500	1,000	1,000	3,000	2,000	1,000	2,000	2,000	2,000	1,000	1,000
Biological/agricultural/other life scientists	2,000	2,000	2,000	S	8,000	4,000	4,000	S	2,000	4,000	4,000
Agricultural/food scientists	5,000	3,000	3,000	S	S	9,000	9,000	S	6,000	S	S
Biological/medical scientists	1,000	1,000	2,000	S	11,000	3,000	3,000	S	3,000	4,000	3,000
Environmental life scientists	4,000	13,000	11,000	S	S	S	S	S	3,000	5,000	9,000
Postsecondary teachers-life/related sciences	6,000	S	S	S	S	5,000	2,000	S	S	S	S
Computer/mathematical scientists	1,000	1,000	500	4,000	4,000	2,000	2,000	3,000	3,000	3,000	2,000
Computer/information scientists	1,000	1,000	500	4,000	4,000	3,000	3,000	4,000	2,000	2,000	3,000
Mathematical scientists	7,000	13,000	14,000	S	S	S	S	S	7,000	16,000	S
Postsecondary teachers-computer/mathematical sciences	6,000	S	S	S	S	7,000	2,000	13,000	S	S	S
Physical/related scientists	1,000	3,000	2,000	15,000	S	3,000	3,000	S	2,000	5,000	3,000
Chemists, except biochemists	3,000	2,000	2,000	S	S	2,000	2,000	S	6,000	8,000	1,000
Earth/atmospheric/ocean scientists	4,000	3,000	2,000	S	S	14,000	14,000	S	2,000	6,000	6,000
Physicists/astronomers	6,000	S	S	S	S	2,000	2,000	S	S	S	S
Postsecondary teachers-physical/related sciences	1,000	S	S	S	S	1,000	1,000	S	S	S	S
Other physical/related scientists	2,000	7,000	5,000	S	S	S	S	S	4,000	S	4,000
Social/related scientists	2,000	3,000	6,000	S	5,000	4,000	5,000	S	2,000	24,000	2,000
Economists	11,000	19,000	S	S	S	S	S	S	5,000	S	S
Political/related scientists	3,000	S	S	S	S	S	S	S	S	S	S

TABLE A-25. Standard errors of median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Postsecondary teachers-social/related sciences	1,000	S	S	S	S	1,000	1,000	S	S	S	S
Psychologists	4,000	S	S	S	S	5,000	S	S	S	S	S
Sociologists/anthropologists	6,000	S	S	S	S	S	S	S	S	S	S
Other social/related scientists	4,000	5,000	8,000	S	3,000	S	S	S	4,000	S	4,000
Engineers	500	500	500	3,000	7,000	7,000	1,000	S	2,000	1,000	1,000
Aerospace/aeronautical/astronautical engineers	2,000	1,000	1,000	S	S	S	S	S	5,000	5,000	S
Chemical engineers	2,000	3,000	3,000	S	S	1,000	1,000	S	S	S	S
Civil/architectural/sanitary engineers	1,000	2,000	2,000	9,000	S	S	S	S	2,000	3,000	2,000
Electrical/computer hardware engineers	500	500	500	9,000	11,000	10,000	18,000	S	3,000	3,000	12,000
Industrial engineers	1,000	1,000	2,000	S	S	S	S	S	2,000	S	S
Mechanical engineers	1,000	2,000	1,000	17,000	S	18,000	20,000	S	2,000	2,000	7,000
Postsecondary teachers-engineering	2,000	S	S	S	S	2,000	2,000	S	S	S	S
Other engineers	2,000	1,000	1,000	11,000	S	3,000	3,000	S	4,000	5,000	2,000
S&E-related occupations	1,000	500	2,000	3,000	1,000	500	1,000	1,000	2,000	1,000	1,000
Health-related occupations	1,000	1,000	1,000	2,000	1,000	2,000	2,000	3,000	2,000	2,000	2,000
S&E managers	3,000	3,000	3,000	S	4,000	5,000	2,000	S	4,000	3,000	7,000
S&E precollege teachers	1,000	S	S	S	S	1,000	S	1,000	S	S	S
S&E technicians/technologists	2,000	2,000	2,000	4,000	4,000	2,000	2,000	S	4,000	5,000	3,000
Other S&E-related occupations	3,000	3,000	3,000	6,000	S	S	S	S	3,000	S	S
Non-S&E occupations	1,000	1,000	500	1,000	1,000	1,000	2,000	1,000	1,000	4,000	1,000
Art/humanities/related occupations	5,000	3,000	4,000	6,000	8,000	14,000	S	S	12,000	S	S
Management-related occupations	1,000	2,000	3,000	5,000	3,000	2,000	2,000	9,000	4,000	3,000	3,000
Non-S&E managers	3,000	2,000	1,000	S	10,000	10,000	S	5,000	7,000	3,000	3,000
Non-S&E postsecondary teachers	5,000	S	S	S	S	7,000	11,000	7,000	S	S	S
Non-S&E precollege/other teachers	2,000	3,000	S	S	S	2,000	S	2,000	S	S	S
Sales/marketing occupations	1,000	1,000	2,000	4,000	4,000	S	S	S	S	S	S
Social services/related occupations	500	2,000	2,000	S	1,000	1,000	3,000	3,000	2,000	S	2,000
Other non-S&E occupations	500	1,000	1,000	3,000	1,000	1,000	2,000	4,000	2,000	4,000	1,000
Master's degrees, all occupations	500	500	2,000	2,000	2,000	1,000	2,000	1,000	1,000	1,000	2,000
S&E occupations	500	1,000	500	3,000	3,000	2,000	2,000	2,000	3,000	3,000	1,000
Scientists	500	500	2,000	6,000	2,000	1,000	2,000	2,000	3,000	3,000	1,000
Biological/agricultural/other life scientists	1,000	4,000	3,000	S	14,000	2,000	1,000	5,000	1,000	4,000	3,000
Agricultural/food scientists	6,000	9,000	3,000	S	S	6,000	6,000	S	S	S	S
Biological/medical scientists	2,000	4,000	4,000	S	19,000	4,000	4,000	S	2,000	2,000	4,000
Environmental life scientists	2,000	S	S	S	S	S	S	S	4,000	S	S
Postsecondary teachers-life/related sciences	2,000	S	S	S	S	2,000	10,000	4,000	S	S	S

TABLE A-25. Standard errors of median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Computer/mathematical scientists	1,000	500	1,000	11,000	2,000	3,000	4,000	4,000	4,000	4,000	2,000
Computer/information scientists	2,000	500	1,000	10,000	2,000	3,000	3,000	8,000	4,000	5,000	2,000
Mathematical scientists	3,000	4,000	5,000	S	S	16,000	4,000	S	7,000	15,000	S
Postsecondary teachers-computer/mathematical sciences	2,000	S	S	S	S	2,000	3,000	3,000	S	S	S
Physical/related scientists	4,000	5,000	4,000	S	18,000	3,000	1,000	4,000	3,000	3,000	2,000
Chemists, except biochemists	1,000	6,000	5,000	S	S	2,000	2,000	S	4,000	S	S
Earth/atmospheric/ocean scientists	6,000	4,000	2,000	S	S	15,000	15,000	S	2,000	4,000	4,000
Physicists/astronomers	10,000	19,000	23,000	S	S	1,000	1,000	S	S	S	S
Postsecondary teachers-physical/related sciences	10,000	S	S	S	S	11,000	5,000	4,000	S	S	S
Other physical/related scientists	7,000	8,000	7,000	S	S	S	S	S	6,000	S	4,000
Social/related scientists	3,000	1,000	11,000	5,000	4,000	1,000	3,000	2,000	5,000	6,000	7,000
Economists	7,000	16,000	38,000	S	S	S	S	S	6,000	6,000	S
Political/related scientists	10,000	S	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	5,000	S	S	S	S	4,000	2,000	7,000	S	S	S
Psychologists	1,000	1,000	3,000	5,000	3,000	2,000	4,000	1,000	4,000	S	2,000
Sociologists/anthropologists	10,000	8,000	S	S	S	1,000	1,000	S	S	S	S
Other social/related scientists	7,000	16,000	8,000	S	9,000	9,000	11,000	S	4,000	S	6,000
Engineers	1,000	500	500	10,000	6,000	9,000	2,000	S	2,000	3,000	2,000
Aerospace/aeronautical/astronautical engineers	4,000	5,000	2,000	S	S	26,000	26,000	S	6,000	6,000	S
Chemical engineers	3,000	2,000	2,000	S	S	1,000	1,000	S	S	S	S
Civil/architectural/sanitary engineers	2,000	3,000	3,000	16,000	S	S	S	S	4,000	7,000	3,000
Electrical/computer hardware engineers	1,000	2,000	2,000	S	S	3,000	3,000	S	6,000	6,000	S
Industrial engineers	3,000	5,000	2,000	S	S	S	S	S	S	S	S
Mechanical engineers	3,000	3,000	3,000	S	S	500	500	S	3,000	3,000	S
Postsecondary teachers-engineering	5,000	S	S	S	S	5,000	8,000	S	S	S	S
Other engineers	2,000	3,000	3,000	13,000	S	9,000	5,000	S	4,000	4,000	4,000
S&E-related occupations	1,000	2,000	3,000	4,000	2,000	1,000	4,000	1,000	2,000	2,000	2,000
Health-related occupations	3,000	2,000	2,000	7,000	2,000	1,000	4,000	1,000	3,000	4,000	2,000
S&E managers	2,000	2,000	2,000	S	4,000	4,000	4,000	S	4,000	9,000	5,000
S&E precollege teachers	1,000	S	S	S	S	1,000	S	1,000	S	S	S
S&E technicians/technologists	2,000	4,000	4,000	S	8,000	2,000	7,000	S	9,000	S	11,000
Other S&E-related occupations	3,000	3,000	6,000	5,000	S	S	S	S	S	S	S
Non-S&E occupations	1,000	3,000	1,000	2,000	1,000	1,000	2,000	1,000	1,000	2,000	1,000
Art/humanities/related occupations	2,000	6,000	12,000	5,000	S	S	S	S	S	S	S
Management-related occupations	2,000	2,000	2,000	4,000	4,000	5,000	2,000	10,000	1,000	5,000	1,000
Non-S&E managers	3,000	5,000	4,000	S	4,000	2,000	5,000	2,000	4,000	9,000	3,000

TABLE A-25. Standard errors of median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Non-S&E postsecondary teachers	2,000	S	S	S	S	3,000	4,000	5,000	S	S	S
Non-S&E precollege/other teachers	1,000	15,000	S	S	S	1,000	S	2,000	S	S	S
Sales/marketing occupations	5,000	5,000	4,000	6,000	S	S	S	S	S	S	S
Social services/related occupations	1,000	2,000	4,000	5,000	2,000	2,000	3,000	2,000	1,000	6,000	2,000
Other non-S&E occupations	2,000	2,000	2,000	4,000	4,000	1,000	2,000	2,000	6,000	5,000	4,000
Doctorate degrees, all occupations	1,000	1,000	1,000	2,000	2,000	1,000	1,000	4,000	3,000	2,000	3,000
S&E occupations	500	1,000	1,000	3,000	2,000	500	1,000	1,000	2,000	1,000	2,000
Scientists	1,000	500	500	4,000	5,000	500	500	1,000	1,000	2,000	2,000
Biological/agricultural/other life scientists	1,000	1,000	1,000	8,000	6,000	2,000	2,000	4,000	4,000	2,000	3,000
Agricultural/food scientists	1,000	3,000	2,000	S	S	3,000	4,000	S	6,000	7,000	S
Biological/medical scientists	1,000	1,000	2,000	12,000	6,000	2,000	2,000	S	4,000	3,000	3,000
Environmental life scientists	7,000	S	S	S	S	S	S	S	9,000	10,000	S
Postsecondary teachers-life/related sciences	2,000	S	S	S	S	2,000	1,000	4,000	S	S	S
Computer/mathematical scientists	1,000	3,000	3,000	22,000	7,000	3,000	2,000	5,000	4,000	3,000	11,000
Computer/information scientists	1,000	2,000	3,000	32,000	9,000	2,000	4,000	S	4,000	6,000	12,000
Mathematical scientists	3,000	5,000	2,000	S	8,000	4,000	4,000	S	5,000	6,000	S
Postsecondary teachers-computer/mathematical sciences	2,000	S	S	S	S	2,000	3,000	5,000	S	S	S
Physical/related scientists	2,000	1,000	1,000	11,000	6,000	1,000	1,000	2,000	3,000	3,000	2,000
Chemists, except biochemists	1,000	2,000	2,000	15,000	8,000	6,000	5,000	S	6,000	6,000	3,000
Earth/atmospheric/ocean scientists	1,000	3,000	4,000	S	15,000	4,000	4,000	S	4,000	5,000	6,000
Physicists/astronomers	3,000	4,000	5,000	S	4,000	5,000	5,000	S	2,000	3,000	S
Postsecondary teachers-physical/related sciences	1,000	S	S	S	S	1,000	1,000	2,000	S	S	S
Other physical/related scientists	3,000	17,000	11,000	S	S	30,000	30,000	S	8,000	9,000	S
Social/related scientists	1,000	4,000	5,000	5,000	1,000	500	500	2,000	1,000	2,000	1,000
Economists	2,000	9,000	4,000	S	5,000	8,000	9,000	S	6,000	6,000	S
Political/related scientists	5,000	15,000	S	S	S	2,000	2,000	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	S	S	S	S	2,000	500	5,000	S	S	S
Psychologists	1,000	2,000	4,000	4,000	1,000	1,000	1,000	4,000	1,000	2,000	1,000
Sociologists/anthropologists	1,000	2,000	7,000	S	1,000	4,000	5,000	S	2,000	3,000	S
Other social/related scientists	500	9,000	7,000	S	20,000	11,000	5,000	S	5,000	7,000	5,000
Engineers	2,000	1,000	1,000	10,000	5,000	2,000	2,000	S	3,000	1,000	6,000
Aerospace/aeronautical/astronautical engineers	7,000	8,000	9,000	S	S	S	S	S	4,000	4,000	S
Chemical engineers	3,000	2,000	3,000	S	S	22,000	22,000	S	31,000	38,000	S
Civil/architectural/sanitary engineers	2,000	2,000	2,000	S	S	21,000	21,000	S	7,000	S	4,000
Electrical/computer hardware engineers	1,000	3,000	4,000	17,000	7,000	14,000	14,000	S	10,000	9,000	S

TABLE A-25. Standard errors of median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, and employment sector: 2003
(Dollars)

Level of highest degree and occupation	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Industrial engineers	30,000	31,000	35,000	S	S	S	S	S	S	S	S
Mechanical engineers	2,000	1,000	1,000	S	S	11,000	13,000	S	4,000	4,000	S
Postsecondary teachers-engineering	1,000	S	S	S	S	1,000	1,000	S	S	S	S
Other engineers	1,000	2,000	3,000	9,000	14,000	13,000	14,000	S	2,000	2,000	S
S&E-related occupations	4,000	5,000	6,000	23,000	19,000	2,000	2,000	6,000	10,000	4,000	1,000
Health-related occupations	3,000	20,000	19,000	33,000	5,000	4,000	5,000	19,000	4,000	11,000	1,000
S&E managers	2,000	4,000	2,000	S	20,000	7,000	8,000	S	5,000	5,000	4,000
S&E precollege teachers	6,000	S	S	S	S	7,000	S	7,000	S	S	S
S&E technicians/technologists	7,000	7,000	9,000	S	S	8,000	6,000	S	19,000	S	S
Other S&E-related occupations	1,000	S	S	S	S	S	S	S	S	S	S
Non-S&E occupations	4,000	7,000	7,000	12,000	4,000	3,000	4,000	7,000	8,000	9,000	5,000
Art/humanities/related occupations	13,000	22,000	18,000	9,000	14,000	3,000	3,000	S	S	S	S
Management-related occupations	3,000	9,000	4,000	25,000	1,000	7,000	8,000	S	21,000	42,000	8,000
Non-S&E managers	7,000	8,000	2,000	36,000	12,000	4,000	6,000	9,000	6,000	4,000	2,000
Non-S&E postsecondary teachers	3,000	S	S	S	S	2,000	2,000	4,000	S	S	S
Non-S&E precollege/other teachers	11,000	S	S	S	S	8,000	S	8,000	S	S	S
Sales/marketing occupations	23,000	24,000	31,000	13,000	S	S	S	S	S	S	S
Social services/related occupations	8,000	12,000	7,000	3,000	14,000	7,000	11,000	9,000	1,000	S	S
Other non-S&E occupations	4,000	8,000	12,000	9,000	8,000	23,000	26,000	S	34,000	12,000	31,000

S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
All degree levels and occupations[a]	1,000	1,000	1,000	1,000	500
U.S. citizen	1,000	1,000	1,000	1,000	1,000
Native-born	500	500	1,000	1,000	1,000
Naturalized	500	1,000	3,000	2,000	2,000
Non-U.S. citizen	1,000	2,000	1,000	2,000	4,000
Permanent resident	2,000	3,000	4,000	3,000	5,000
Temporary resident	2,000	3,000	2,000	6,000	4,000
S&E occupations	1,000	1,000	1,000	1,000	1,000
U.S. citizen	1,000	1,000	1,000	1,000	1,000
Native-born	500	500	1,000	1,000	1,000
Naturalized	1,000	500	1,000	3,000	1,000
Non-U.S. citizen	1,000	500	1,000	3,000	4,000
Permanent resident	1,000	1,000	3,000	9,000	1,000
Temporary resident	1,000	1,000	5,000	S	5,000
Scientists	1,000	500	1,000	1,000	1,000
U.S. citizen	1,000	1,000	1,000	1,000	2,000
Native-born	1,000	1,000	1,000	2,000	2,000
Naturalized	2,000	3,000	2,000	5,000	3,000
Non-U.S. citizen	1,000	1,000	500	5,000	3,000
Permanent resident	1,000	1,000	2,000	9,000	3,000
Temporary resident	4,000	1,000	3,000	S	5,000
Biological/agricultural/other life scientists	2,000	3,000	2,000	4,000	1,000
U.S. citizen	1,000	5,000	2,000	3,000	2,000
Native-born	1,000	3,000	1,000	3,000	1,000
Naturalized	3,000	2,000	6,000	S	3,000
Non-U.S. citizen	1,000	5,000	1,000	S	2,000
Permanent resident	3,000	5,000	3,000	S	10,000
Temporary resident	1,000	4,000	2,000	S	5,000
Agricultural/food scientists	2,000	2,000	2,000	S	4,000
U.S. citizen	2,000	3,000	6,000	S	4,000
Native-born	2,000	3,000	5,000	S	5,000
Naturalized	23,000	2,000	S	S	S
Non-U.S. citizen	3,000	13,000	9,000	S	S
Permanent resident	15,000	20,000	17,000	S	S
Temporary resident	9,000	S	6,000	S	S
Biological/medical scientists	2,000	4,000	3,000	S	1,000
U.S. citizen	1,000	3,000	2,000	S	2,000
Native-born	2,000	4,000	2,000	S	2,000
Naturalized	2,000	3,000	5,000	S	3,000
Non-U.S. citizen	1,000	3,000	1,000	S	2,000
Permanent resident	3,000	5,000	4,000	S	9,000
Temporary resident	2,000	6,000	1,000	S	5,000
Environmental life scientists	4,000	10,000	3,000	S	3,000
U.S. citizen	4,000	10,000	3,000	S	3,000
Native-born	3,000	10,000	13,000	S	3,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-life/related sciences	3,000	S	3,000	4,000	S
U.S. citizen	4,000	S	3,000	4,000	S
Native-born	2,000	S	1,000	3,000	S
Naturalized	4,000	S	6,000	S	S
Non-U.S. citizen	8,000	S	5,000	S	S
Permanent resident	8,000	S	2,000	S	S
Temporary resident	7,000	S	7,000	S	S
Computer/mathematical scientists	1,000	1,000	2,000	2,000	2,000
U.S. citizen	1,000	1,000	1,000	2,000	2,000
Native-born	1,000	1,000	2,000	2,000	2,000
Naturalized	2,000	500	2,000	6,000	4,000
Non-U.S. citizen	1,000	500	4,000	9,000	5,000
Permanent resident	500	2,000	7,000	8,000	7,000
Temporary resident	2,000	1,000	10,000	S	S
Computer/information scientists	500	1,000	2,000	4,000	2,000
U.S. citizen	1,000	1,000	2,000	4,000	2,000
Native-born	2,000	2,000	2,000	5,000	2,000
Naturalized	2,000	500	6,000	S	4,000
Non-U.S. citizen	2,000	500	5,000	S	5,000
Permanent resident	1,000	2,000	3,000	S	7,000
Temporary resident	2,000	1,000	5,000	S	S
Mathematical scientists	6,000	4,000	12,000	S	7,000
U.S. citizen	7,000	4,000	21,000	S	7,000
Native-born	8,000	4,000	26,000	S	7,000
Naturalized	3,000	8,000	5,000	S	7,000
Non-U.S. citizen	2,000	2,000	12,000	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	5,000	5,000	6,000	S	S
Postsecondary teachers-computer/mathematical sciences	1,000	S	3,000	1,000	S
U.S. citizen	2,000	S	3,000	2,000	S
Native-born	1,000	S	3,000	2,000	S
Naturalized	6,000	S	6,000	18,000	S
Non-U.S. citizen	6,000	S	6,000	S	S
Permanent resident	13,000	S	16,000	S	S
Temporary resident	5,000	S	4,000	S	S
Physical/related scientists	2,000	3,000	1,000	4,000	4,000
U.S. citizen	2,000	3,000	1,000	4,000	6,000
Native-born	3,000	3,000	2,000	4,000	4,000
Naturalized	3,000	2,000	5,000	7,000	5,000
Non-U.S. citizen	3,000	5,000	2,000	S	7,000
Permanent resident	3,000	5,000	5,000	S	S
Temporary resident	4,000	9,000	7,000	S	S
Chemists, except biochemists	1,000	3,000	4,000	S	3,000
U.S. citizen	2,000	3,000	3,000	S	4,000
Native-born	3,000	5,000	3,000	S	5,000
Naturalized	4,000	3,000	15,000	S	4,000
Non-U.S. citizen	6,000	4,000	2,000	S	S
Permanent resident	4,000	5,000	S	S	S
Temporary resident	9,000	5,000	9,000	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Earth/atmospheric/ocean scientists	3,000	5,000	1,000	S	5,000
U.S. citizen	3,000	5,000	3,000	S	4,000
Native-born	3,000	5,000	2,000	S	5,000
Naturalized	5,000	7,000	6,000	S	3,000
Non-U.S. citizen	8,000	11,000	3,000	S	S
Permanent resident	12,000	9,000	S	S	S
Temporary resident	5,000	S	7,000	S	S
Physicists/astronomers	6,000	4,000	4,000	S	5,000
U.S. citizen	3,000	5,000	4,000	S	5,000
Native-born	3,000	6,000	8,000	S	5,000
Naturalized	9,000	23,000	1,000	S	5,000
Non-U.S. citizen	8,000	6,000	8,000	S	S
Permanent resident	15,000	6,000	6,000	S	S
Temporary resident	11,000	S	8,000	S	S
Postsecondary teachers-physical/related sciences	2,000	S	4,000	4,000	S
U.S. citizen	3,000	S	3,000	4,000	S
Native-born	2,000	S	3,000	4,000	S
Naturalized	10,000	S	6,000	7,000	S
Non-U.S. citizen	7,000	S	7,000	S	S
Permanent resident	2,000	S	3,000	S	S
Temporary resident	1,000	S	1,000	S	S
Other physical/related scientists	5,000	1,000	500	S	6,000
U.S. citizen	4,000	1,000	1,000	S	6,000
Native-born	6,000	1,000	S	S	5,000
Naturalized	25,000	S	S	S	S
Non-U.S. citizen	9,000	24,000	S	S	S
Permanent resident	15,000	S	S	S	S
Temporary resident	S	S	S	S	S
Social/related scientists	500	3,000	1,000	1,000	3,000
U.S. citizen	500	5,000	2,000	1,000	4,000
Native-born	500	3,000	2,000	1,000	4,000
Naturalized	3,000	10,000	3,000	2,000	12,000
Non-U.S. citizen	4,000	11,000	6,000	S	9,000
Permanent resident	8,000	23,000	4,000	S	S
Temporary resident	5,000	6,000	2,000	S	S
Economists	5,000	12,000	15,000	S	5,000
U.S. citizen	6,000	15,000	22,000	S	4,000
Native-born	6,000	12,000	10,000	S	5,000
Naturalized	24,000	31,000	S	S	16,000
Non-U.S. citizen	17,000	24,000	7,000	S	S
Permanent resident	22,000	33,000	S	S	S
Temporary resident	43,000	26,000	S	S	S
Political/related scientists	2,000	6,000	6,000	S	3,000
U.S. citizen	2,000	5,000	8,000	S	3,000
Native-born	3,000	5,000	4,000	S	3,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-social/related sciences	2,000	S	1,000	5,000	S
U.S. citizen	1,000	S	2,000	5,000	S
Native-born	2,000	S	3,000	5,000	S
Naturalized	3,000	S	3,000	S	S
Non-U.S. citizen	8,000	S	8,000	S	S
Permanent resident	6,000	S	3,000	S	S
Temporary resident	6,000	S	6,000	S	S
Psychologists	1,000	4,000	5,000	1,000	5,000
U.S. citizen	1,000	4,000	5,000	1,000	5,000
Native-born	2,000	4,000	5,000	1,000	5,000
Naturalized	4,000	7,000	32,000	3,000	5,000
Non-U.S. citizen	6,000	12,000	S	S	S
Permanent resident	12,000	21,000	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	6,000	13,000	5,000	S	21,000
U.S. citizen	6,000	13,000	6,000	S	20,000
Native-born	6,000	13,000	5,000	S	20,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	2,000	5,000	9,000	S	5,000
U.S. citizen	3,000	4,000	8,000	S	5,000
Native-born	3,000	4,000	9,000	S	5,000
Naturalized	12,000	14,000	S	S	S
Non-U.S. citizen	10,000	5,000	S	S	S
Permanent resident	20,000	35,000	S	S	S
Temporary resident	4,000	S	S	S	S
Engineers	1,000	1,000	2,000	7,000	2,000
U.S. citizen	1,000	1,000	3,000	7,000	2,000
Native-born	1,000	1,000	7,000	8,000	2,000
Naturalized	1,000	2,000	4,000	S	2,000
Non-U.S. citizen	2,000	1,000	1,000	S	3,000
Permanent resident	1,000	3,000	6,000	S	7,000
Temporary resident	2,000	6,000	500	S	S
Aerospace/aeronautical/astronautical engineers	3,000	2,000	35,000	S	5,000
U.S. citizen	2,000	2,000	47,000	S	5,000
Native-born	2,000	3,000	31,000	S	5,000
Naturalized	4,000	5,000	S	S	3,000
Non-U.S. citizen	3,000	3,000	S	S	S
Permanent resident	4,000	S	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	2,000	2,000	2,000	S	10,000
U.S. citizen	3,000	3,000	500	S	10,000
Native-born	2,000	2,000	500	S	10,000
Naturalized	4,000	4,000	S	S	S
Non-U.S. citizen	4,000	3,000	1,000	S	S
Permanent resident	4,000	4,000	S	S	S
Temporary resident	12,000	4,000	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Civil/architectural/sanitary engineers	2,000	2,000	15,000	S	3,000
U.S. citizen	2,000	2,000	14,000	S	3,000
Native-born	2,000	3,000	6,000	S	4,000
Naturalized	2,000	5,000	S	S	2,000
Non-U.S. citizen	8,000	10,000	S	S	6,000
Permanent resident	5,000	8,000	S	S	8,000
Temporary resident	6,000	4,000	S	S	S
Electrical/computer hardware engineers	1,000	500	10,000	S	3,000
U.S. citizen	1,000	500	6,000	S	3,000
Native-born	2,000	1,000	6,000	S	2,000
Naturalized	2,000	3,000	29,000	S	3,000
Non-U.S. citizen	6,000	4,000	1,000	S	S
Permanent resident	5,000	5,000	S	S	S
Temporary resident	3,000	6,000	2,000	S	S
Industrial engineers	2,000	2,000	39,000	S	3,000
U.S. citizen	2,000	2,000	S	S	3,000
Native-born	2,000	2,000	S	S	3,000
Naturalized	11,000	14,000	S	S	S
Non-U.S. citizen	9,000	8,000	S	S	S
Permanent resident	3,000	4,000	S	S	S
Temporary resident	4,000	4,000	S	S	S
Mechanical engineers	1,000	2,000	13,000	S	5,000
U.S. citizen	2,000	2,000	18,000	S	5,000
Native-born	2,000	2,000	20,000	S	5,000
Naturalized	2,000	1,000	S	S	8,000
Non-U.S. citizen	3,000	4,000	1,000	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	2,000	4,000	S	S	S
Postsecondary teachers-engineering	2,000	S	2,000	3,000	S
U.S. citizen	2,000	S	5,000	3,000	S
Native-born	3,000	S	3,000	3,000	S
Naturalized	3,000	S	4,000	S	S
Non-U.S. citizen	18,000	S	18,000	S	S
Permanent resident	3,000	S	3,000	S	S
Temporary resident	1,000	S	1,000	S	S
Other engineers	2,000	2,000	5,000	S	3,000
U.S. citizen	2,000	3,000	2,000	S	3,000
Native-born	2,000	3,000	6,000	S	3,000
Naturalized	2,000	4,000	5,000	S	3,000
Non-U.S. citizen	3,000	2,000	3,000	S	S
Permanent resident	3,000	4,000	S	S	S
Temporary resident	7,000	7,000	500	S	S
S&E-related occupations	1,000	500	1,000	1,000	1,000
U.S. citizen	1,000	500	2,000	1,000	1,000
Native-born	500	500	1,000	500	1,000
Naturalized	2,000	3,000	2,000	3,000	2,000
Non-U.S. citizen	1,000	3,000	3,000	6,000	6,000
Permanent resident	1,000	3,000	5,000	3,000	8,000
Temporary resident	3,000	6,000	3,000	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Health-related occupations	1,000	500	1,000	1,000	1,000
U.S. citizen	1,000	1,000	1,000	1,000	1,000
Native-born	1,000	1,000	2,000	1,000	1,000
Naturalized	2,000	3,000	3,000	S	3,000
Non-U.S. citizen	2,000	3,000	4,000	S	7,000
Permanent resident	3,000	3,000	5,000	S	7,000
Temporary resident	6,000	9,000	8,000	S	S
S&E managers	1,000	2,000	5,000	S	4,000
U.S. citizen	1,000	2,000	5,000	S	4,000
Native-born	2,000	1,000	5,000	S	4,000
Naturalized	6,000	1,000	17,000	S	12,000
Non-U.S. citizen	6,000	7,000	S	S	S
Permanent resident	9,000	10,000	S	S	S
Temporary resident	16,000	17,000	S	S	S
S&E precollege teachers	1,000	S	S	1,000	S
U.S. citizen	1,000	S	S	1,000	S
Native-born	1,000	S	S	1,000	S
Naturalized	3,000	S	S	3,000	S
Non-U.S. citizen	5,000	S	S	5,000	S
Permanent resident	3,000	S	S	3,000	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	1,000	2,000	2,000	S	3,000
U.S. citizen	1,000	2,000	2,000	S	3,000
Native-born	2,000	2,000	2,000	S	3,000
Naturalized	1,000	4,000	6,000	S	14,000
Non-U.S. citizen	4,000	5,000	4,000	S	S
Permanent resident	4,000	6,000	4,000	S	S
Temporary resident	4,000	5,000	3,000	S	S
Other S&E-related occupations	1,000	1,000	S	S	3,000
U.S. citizen	1,000	1,000	S	S	3,000
Native-born	1,000	2,000	S	S	4,000
Naturalized	5,000	5,000	S	S	S
Non-U.S. citizen	3,000	2,000	S	S	S
Permanent resident	6,000	6,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	500	2,000	1,000	500	1,000
U.S. citizen	500	1,000	2,000	500	1,000
Native-born	500	1,000	1,000	500	1,000
Naturalized	2,000	500	3,000	1,000	2,000
Non-U.S. citizen	1,000	3,000	2,000	7,000	4,000
Permanent resident	2,000	4,000	1,000	8,000	4,000
Temporary resident	7,000	5,000	4,000	S	S
Art/humanities/related occupations	3,000	4,000	9,000	S	9,000
U.S. citizen	3,000	4,000	9,000	S	16,000
Native-born	3,000	4,000	10,000	S	16,000
Naturalized	13,000	13,000	S	S	S
Non-U.S. citizen	8,000	16,000	S	S	S
Permanent resident	5,000	10,000	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Management-related occupations	2,000	2,000	1,000	9,000	1,000
U.S. citizen	2,000	2,000	1,000	9,000	2,000
Native-born	2,000	1,000	1,000	9,000	1,000
Naturalized	4,000	5,000	15,000	S	4,000
Non-U.S. citizen	5,000	9,000	S	S	S
Permanent resident	4,000	13,000	S	S	S
Temporary resident	17,000	20,000	S	S	S
Non-S&E managers	2,000	3,000	7,000	3,000	7,000
U.S. citizen	3,000	3,000	7,000	2,000	6,000
Native-born	3,000	2,000	7,000	2,000	6,000
Naturalized	7,000	6,000	23,000	S	24,000
Non-U.S. citizen	7,000	12,000	S	S	S
Permanent resident	17,000	11,000	S	S	S
Temporary resident	15,000	14,000	S	S	S
Non-S&E postsecondary teachers	1,000	7,000	1,000	3,000	S
U.S. citizen	1,000	S	5,000	3,000	S
Native-born	1,000	S	1,000	4,000	S
Naturalized	2,000	S	10,000	8,000	S
Non-U.S. citizen	6,000	S	6,000	S	S
Permanent resident	3,000	S	2,000	S	S
Temporary resident	6,000	S	6,000	S	S
Non-S&E precollege/other teachers	1,000	4,000	S	1,000	5,000
U.S. citizen	1,000	5,000	S	1,000	5,000
Native-born	1,000	5,000	S	1,000	S
Naturalized	2,000	S	S	2,000	S
Non-U.S. citizen	9,000	S	S	7,000	S
Permanent resident	9,000	S	S	9,000	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	4,000	3,000	S	S	4,000
U.S. citizen	3,000	3,000	S	S	4,000
Native-born	3,000	3,000	S	S	4,000
Naturalized	5,000	5,000	S	S	S
Non-U.S. citizen	6,000	6,000	S	S	S
Permanent resident	6,000	6,000	S	S	S
Temporary resident	13,000	13,000	S	S	S
Social services/related occupations	1,000	1,000	1,000	1,000	1,000
U.S. citizen	1,000	1,000	1,000	1,000	1,000
Native-born	1,000	1,000	1,000	1,000	2,000
Naturalized	2,000	2,000	S	6,000	4,000
Non-U.S. citizen	2,000	3,000	S	S	S
Permanent resident	2,000	4,000	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	500	2,000	2,000	5,000	1,000
U.S. citizen	1,000	2,000	2,000	4,000	1,000
Native-born	1,000	1,000	2,000	5,000	1,000
Naturalized	2,000	2,000	3,000	S	2,000
Non-U.S. citizen	2,000	3,000	16,000	S	7,000
Permanent resident	3,000	3,000	S	S	4,000
Temporary resident	6,000	6,000	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Bachelor's degrees, all occupations	500	1,000	1,000	1,000	500
U.S. citizen	500	1,000	1,000	1,000	500
Native-born	500	1,000	1,000	1,000	500
Naturalized	2,000	2,000	1,000	1,000	1,000
Non-U.S. citizen	2,000	1,000	4,000	9,000	4,000
Permanent resident	2,000	1,000	2,000	8,000	4,000
Temporary resident	2,000	4,000	2,000	S	S
S&E occupations	1,000	500	2,000	2,000	2,000
U.S. citizen	1,000	500	2,000	2,000	2,000
Native-born	1,000	1,000	3,000	2,000	2,000
Naturalized	500	1,000	7,000	S	500
Non-U.S. citizen	3,000	2,000	2,000	S	2,000
Permanent resident	2,000	2,000	2,000	S	6,000
Temporary resident	5,000	3,000	2,000	S	S
Scientists	500	1,000	2,000	2,000	2,000
U.S. citizen	500	500	2,000	2,000	2,000
Native-born	1,000	500	2,000	3,000	2,000
Naturalized	2,000	2,000	7,000	S	6,000
Non-U.S. citizen	2,000	2,000	6,000	S	7,000
Permanent resident	1,000	2,000	2,000	S	S
Temporary resident	5,000	4,000	4,000	S	S
Biological/agricultural/other life scientists	2,000	2,000	4,000	S	2,000
U.S. citizen	2,000	1,000	5,000	S	2,000
Native-born	2,000	2,000	5,000	S	2,000
Naturalized	4,000	1,000	S	S	S
Non-U.S. citizen	4,000	S	5,000	S	S
Permanent resident	4,000	S	S	S	S
Temporary resident	S	S	S	S	S
Agricultural/food scientists	5,000	3,000	9,000	S	6,000
U.S. citizen	3,000	3,000	S	S	6,000
Native-born	3,000	3,000	S	S	7,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Biological/medical scientists	1,000	1,000	3,000	S	3,000
U.S. citizen	2,000	2,000	3,000	S	3,000
Native-born	1,000	2,000	3,000	S	3,000
Naturalized	2,000	1,000	S	S	S
Non-U.S. citizen	6,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Environmental life scientists	4,000	13,000	S	S	3,000
U.S. citizen	4,000	13,000	S	S	3,000
Native-born	4,000	13,000	S	S	3,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-life/related sciences	6,000	S	2,000	S	S
U.S. citizen	5,000	S	4,000	S	S
Native-born	6,000	S	4,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Computer/mathematical scientists	1,000	1,000	2,000	3,000	3,000
U.S. citizen	500	1,000	3,000	3,000	3,000
Native-born	500	1,000	2,000	4,000	2,000
Naturalized	2,000	2,000	11,000	S	7,000
Non-U.S. citizen	2,000	2,000	6,000	S	S
Permanent resident	3,000	2,000	S	S	S
Temporary resident	1,000	4,000	S	S	S
Computer/information scientists	1,000	1,000	3,000	4,000	2,000
U.S. citizen	1,000	1,000	3,000	4,000	2,000
Native-born	1,000	1,000	3,000	5,000	1,000
Naturalized	3,000	2,000	13,000	S	8,000
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	3,000	2,000	S	S	S
Temporary resident	2,000	4,000	S	S	S
Mathematical scientists	7,000	13,000	S	S	7,000
U.S. citizen	7,000	14,000	S	S	7,000
Native-born	7,000	15,000	S	S	9,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	6,000	S	2,000	13,000	S
U.S. citizen	6,000	S	2,000	14,000	S
Native-born	12,000	S	2,000	12,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physical/related scientists	1,000	3,000	3,000	S	2,000
U.S. citizen	2,000	2,000	2,000	S	2,000
Native-born	2,000	2,000	3,000	S	2,000
Naturalized	4,000	3,000	S	S	S
Non-U.S. citizen	4,000	10,000	S	S	S
Permanent resident	10,000	12,000	S	S	S
Temporary resident	S	S	S	S	S
Chemists, except biochemists	3,000	2,000	2,000	S	6,000
U.S. citizen	3,000	2,000	1,000	S	6,000
Native-born	3,000	2,000	1,000	S	6,000
Naturalized	3,000	3,000	S	S	S
Non-U.S. citizen	7,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Earth/atmospheric/ocean scientists	4,000	3,000	14,000	S	2,000
U.S. citizen	4,000	3,000	15,000	S	2,000
Native-born	4,000	3,000	15,000	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physicists/astronomers	6,000	S	2,000	S	S
U.S. citizen	13,000	S	2,000	S	S
Native-born	16,000	S	2,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-physical/related sciences	1,000	S	1,000	S	S
U.S. citizen	3,000	S	2,000	S	S
Native-born	5,000	S	3,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other physical/related scientists	2,000	7,000	S	S	4,000
U.S. citizen	2,000	5,000	S	S	4,000
Native-born	3,000	5,000	S	S	4,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Social/related scientists	2,000	3,000	5,000	S	2,000
U.S. citizen	2,000	3,000	5,000	S	2,000
Native-born	2,000	3,000	4,000	S	3,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	5,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Economists	11,000	19,000	S	S	5,000
U.S. citizen	11,000	S	S	S	5,000
Native-born	11,000	S	S	S	5,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Political/related scientists	3,000	S	S	S	S
U.S. citizen	3,000	S	S	S	S
Native-born	3,000	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-social/related sciences	1,000	S	1,000	S	S
U.S. citizen	2,000	S	1,000	S	S
Native-born	2,000	S	1,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Psychologists	4,000	S	S	S	S
U.S. citizen	6,000	S	S	S	S
Native-born	6,000	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	6,000	S	S	S	S
U.S. citizen	6,000	S	S	S	S
Native-born	7,000	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	4,000	5,000	S	S	4,000
U.S. citizen	8,000	5,000	S	S	4,000
Native-born	5,000	6,000	S	S	5,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Engineers	500	500	1,000	S	2,000
U.S. citizen	500	500	6,000	S	2,000
Native-born	500	500	5,000	S	2,000
Naturalized	2,000	1,000	S	S	3,000
Non-U.S. citizen	5,000	6,000	2,000	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	10,000	4,000	S	S	S
Aerospace/aeronautical/astronautical engineers	2,000	1,000	S	S	5,000
U.S. citizen	2,000	1,000	S	S	5,000
Native-born	3,000	1,000	S	S	5,000
Naturalized	6,000	7,000	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	2,000	3,000	1,000	S	S
U.S. citizen	3,000	3,000	S	S	S
Native-born	4,000	3,000	S	S	S
Naturalized	4,000	4,000	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Civil/architectural/sanitary engineers	1,000	2,000	S	S	2,000
U.S. citizen	1,000	2,000	S	S	2,000
Native-born	1,000	3,000	S	S	2,000
Naturalized	4,000	7,000	S	S	4,000
Non-U.S. citizen	9,000	10,000	S	S	S
Permanent resident	9,000	10,000	S	S	S
Temporary resident	S	S	S	S	S
Electrical/computer hardware engineers	500	500	18,000	S	3,000
U.S. citizen	500	1,000	7,000	S	2,000
Native-born	1,000	1,000	6,000	S	2,000
Naturalized	1,000	1,000	S	S	5,000
Non-U.S. citizen	4,000	6,000	S	S	S
Permanent resident	9,000	9,000	S	S	S
Temporary resident	13,000	15,000	S	S	S
Industrial engineers	1,000	1,000	S	S	2,000
U.S. citizen	1,000	1,000	S	S	2,000
Native-born	2,000	2,000	S	S	2,000
Naturalized	5,000	8,000	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Mechanical engineers	1,000	2,000	20,000	S	2,000
U.S. citizen	1,000	1,000	17,000	S	2,000
Native-born	1,000	1,000	17,000	S	2,000
Naturalized	3,000	3,000	S	S	S
Non-U.S. citizen	4,000	5,000	S	S	S
Permanent resident	8,000	10,000	S	S	S
Temporary resident	6,000	7,000	S	S	S
Postsecondary teachers-engineering	2,000	S	2,000	S	S
U.S. citizen	11,000	S	2,000	S	S
Native-born	12,000	S	2,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other engineers	2,000	1,000	3,000	S	4,000
U.S. citizen	2,000	1,000	7,000	S	4,000
Native-born	2,000	1,000	2,000	S	5,000
Naturalized	2,000	5,000	S	S	1,000
Non-U.S. citizen	6,000	7,000	S	S	S
Permanent resident	6,000	6,000	S	S	S
Temporary resident	S	S	S	S	S
S&E-related occupations	1,000	500	1,000	1,000	2,000
U.S. citizen	1,000	500	2,000	1,000	2,000
Native-born	1,000	500	2,000	1,000	2,000
Naturalized	2,000	2,000	2,000	3,000	4,000
Non-U.S. citizen	3,000	3,000	6,000	2,000	S
Permanent resident	4,000	4,000	7,000	5,000	S
Temporary resident	6,000	5,000	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Health-related occupations	1,000	1,000	2,000	3,000	2,000
U.S. citizen	500	1,000	2,000	3,000	2,000
Native-born	1,000	1,000	2,000	3,000	2,000
Naturalized	1,000	2,000	2,000	S	3,000
Non-U.S. citizen	3,000	6,000	6,000	S	S
Permanent resident	2,000	4,000	8,000	S	S
Temporary resident	S	S	S	S	S
S&E managers	3,000	3,000	2,000	S	4,000
U.S. citizen	4,000	3,000	2,000	S	4,000
Native-born	4,000	3,000	S	S	4,000
Naturalized	10,000	11,000	S	S	S
Non-U.S. citizen	24,000	24,000	S	S	S
Permanent resident	15,000	15,000	S	S	S
Temporary resident	S	S	S	S	S
S&E precollege teachers	1,000	S	S	1,000	S
U.S. citizen	1,000	S	S	1,000	S
Native-born	1,000	S	S	1,000	S
Naturalized	3,000	S	S	3,000	S
Non-U.S. citizen	2,000	S	S	2,000	S
Permanent resident	7,000	S	S	7,000	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	2,000	2,000	2,000	S	4,000
U.S. citizen	2,000	2,000	2,000	S	4,000
Native-born	2,000	2,000	2,000	S	4,000
Naturalized	5,000	2,000	S	S	S
Non-U.S. citizen	8,000	9,000	S	S	S
Permanent resident	9,000	10,000	S	S	S
Temporary resident	9,000	12,000	S	S	S
Other S&E-related occupations	3,000	3,000	S	S	3,000
U.S. citizen	1,000	2,000	S	S	2,000
Native-born	2,000	2,000	S	S	S
Naturalized	6,000	5,000	S	S	S
Non-U.S. citizen	5,000	6,000	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	1,000	1,000	2,000	1,000	1,000
U.S. citizen	1,000	1,000	2,000	1,000	1,000
Native-born	1,000	2,000	1,000	2,000	2,000
Naturalized	2,000	3,000	9,000	2,000	3,000
Non-U.S. citizen	3,000	2,000	22,000	2,000	8,000
Permanent resident	3,000	4,000	S	1,000	8,000
Temporary resident	4,000	3,000	S	S	S
Art/humanities/related occupations	5,000	3,000	S	S	12,000
U.S. citizen	4,000	3,000	S	S	12,000
Native-born	4,000	3,000	S	S	S
Naturalized	20,000	20,000	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Management-related occupations	1,000	2,000	2,000	9,000	4,000
U.S. citizen	1,000	2,000	2,000	9,000	4,000
Native-born	2,000	3,000	2,000	S	4,000
Naturalized	3,000	4,000	S	S	S
Non-U.S. citizen	3,000	3,000	S	S	S
Permanent resident	3,000	4,000	S	S	S
Temporary resident	6,000	6,000	S	S	S
Non-S&E managers	3,000	2,000	S	5,000	7,000
U.S. citizen	3,000	3,000	S	6,000	7,000
Native-born	3,000	3,000	S	S	7,000
Naturalized	15,000	8,000	S	S	S
Non-U.S. citizen	11,000	16,000	S	S	S
Permanent resident	20,000	17,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E postsecondary teachers	5,000	S	11,000	7,000	S
U.S. citizen	7,000	S	11,000	7,000	S
Native-born	4,000	S	10,000	10,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E precollege/other teachers	2,000	3,000	S	2,000	S
U.S. citizen	2,000	3,000	S	3,000	S
Native-born	2,000	3,000	S	2,000	S
Naturalized	2,000	S	S	2,000	S
Non-U.S. citizen	4,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	1,000	1,000	S	S	S
U.S. citizen	1,000	1,000	S	S	S
Native-born	1,000	1,000	S	S	S
Naturalized	5,000	5,000	S	S	S
Non-U.S. citizen	3,000	3,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	S	S	S	S	S
Social services/related occupations	500	2,000	3,000	3,000	2,000
U.S. citizen	1,000	2,000	2,000	4,000	2,000
Native-born	500	1,000	2,000	4,000	2,000
Naturalized	1,000	3,000	S	S	7,000
Non-U.S. citizen	2,000	S	S	S	S
Permanent resident	2,000	S	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	500	1,000	2,000	4,000	2,000
U.S. citizen	500	500	2,000	3,000	2,000
Native-born	1,000	1,000	2,000	4,000	1,000
Naturalized	1,000	1,000	S	S	2,000
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	6,000	6,000	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Master's degrees, all occupations	500	500	2,000	1,000	1,000
U.S. citizen	1,000	1,000	1,000	1,000	1,000
Native-born	1,000	2,000	2,000	1,000	1,000
Naturalized	1,000	1,000	6,000	2,000	3,000
Non-U.S. citizen	2,000	1,000	2,000	2,000	11,000
Permanent resident	2,000	3,000	6,000	5,000	11,000
Temporary resident	3,000	2,000	2,000	S	S
S&E occupations	500	1,000	2,000	2,000	3,000
U.S. citizen	500	2,000	1,000	2,000	2,000
Native-born	1,000	2,000	1,000	2,000	2,000
Naturalized	2,000	500	7,000	5,000	2,000
Non-U.S. citizen	3,000	2,000	1,000	4,000	6,000
Permanent resident	500	2,000	7,000	S	7,000
Temporary resident	2,000	2,000	1,000	S	S
Scientists	500	500	2,000	2,000	3,000
U.S. citizen	1,000	1,000	2,000	2,000	2,000
Native-born	2,000	1,000	2,000	2,000	3,000
Naturalized	1,000	1,000	7,000	4,000	4,000
Non-U.S. citizen	2,000	2,000	3,000	6,000	11,000
Permanent resident	500	2,000	6,000	S	S
Temporary resident	1,000	2,000	2,000	S	S
Biological/agricultural/other life scientists	1,000	4,000	1,000	5,000	1,000
U.S. citizen	1,000	2,000	2,000	5,000	1,000
Native-born	2,000	4,000	1,000	4,000	1,000
Naturalized	5,000	3,000	2,000	S	S
Non-U.S. citizen	3,000	6,000	4,000	S	S
Permanent resident	5,000	S	S	S	S
Temporary resident	4,000	S	7,000	S	S
Agricultural/food scientists	6,000	9,000	6,000	S	S
U.S. citizen	6,000	9,000	7,000	S	S
Native-born	6,000	10,000	7,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Biological/medical scientists	2,000	4,000	4,000	S	2,000
U.S. citizen	3,000	4,000	4,000	S	2,000
Native-born	2,000	4,000	3,000	S	2,000
Naturalized	4,000	3,000	S	S	S
Non-U.S. citizen	6,000	3,000	2,000	S	S
Permanent resident	8,000	S	S	S	S
Temporary resident	4,000	S	2,000	S	S
Environmental life scientists	2,000	S	S	S	4,000
U.S. citizen	2,000	S	S	S	4,000
Native-born	3,000	S	S	S	4,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-life/related sciences	2,000	S	10,000	4,000	S
U.S. citizen	3,000	S	5,000	4,000	S
Native-born	3,000	S	4,000	4,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Computer/mathematical scientists	1,000	500	4,000	4,000	4,000
U.S. citizen	1,000	2,000	3,000	4,000	3,000
Native-born	2,000	2,000	3,000	4,000	5,000
Naturalized	1,000	2,000	15,000	S	6,000
Non-U.S. citizen	1,000	500	13,000	S	S
Permanent resident	2,000	2,000	1,000	S	S
Temporary resident	3,000	3,000	4,000	S	S
Computer/information scientists	2,000	500	3,000	8,000	4,000
U.S. citizen	1,000	2,000	2,000	8,000	3,000
Native-born	2,000	2,000	1,000	9,000	5,000
Naturalized	2,000	3,000	9,000	S	7,000
Non-U.S. citizen	2,000	500	13,000	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	5,000	3,000	4,000	S	S
Mathematical scientists	3,000	4,000	4,000	S	7,000
U.S. citizen	4,000	6,000	3,000	S	7,000
Native-born	5,000	6,000	8,000	S	7,000
Naturalized	4,000	S	S	S	S
Non-U.S. citizen	4,000	2,000	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	8,000	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	2,000	S	3,000	3,000	S
U.S. citizen	2,000	S	3,000	3,000	S
Native-born	2,000	S	3,000	3,000	S
Naturalized	5,000	S	S	S	S
Non-U.S. citizen	6,000	S	19,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physical/related scientists	4,000	5,000	1,000	4,000	3,000
U.S. citizen	2,000	4,000	3,000	4,000	3,000
Native-born	2,000	2,000	5,000	8,000	3,000
Naturalized	5,000	5,000	S	S	S
Non-U.S. citizen	9,000	9,000	1,000	S	S
Permanent resident	7,000	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Chemists, except biochemists	1,000	6,000	2,000	S	4,000
U.S. citizen	5,000	8,000	S	S	4,000
Native-born	9,000	8,000	S	S	9,000
Naturalized	4,000	2,000	S	S	S
Non-U.S. citizen	6,000	10,000	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Earth/atmospheric/ocean scientists	6,000	4,000	15,000	S	2,000
U.S. citizen	5,000	3,000	22,000	S	3,000
Native-born	5,000	3,000	34,000	S	3,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physicists/astronomers	10,000	19,000	1,000	S	S
U.S. citizen	14,000	21,000	2,000	S	S
Native-born	18,000	12,000	1,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-physical/related sciences	10,000	S	5,000	4,000	S
U.S. citizen	13,000	S	8,000	4,000	S
Native-born	14,000	S	11,000	8,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	3,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	3,000	S	3,000	S	S
Other physical/related scientists	7,000	8,000	S	S	6,000
U.S. citizen	8,000	8,000	S	S	6,000
Native-born	8,000	8,000	S	S	6,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Social/related scientists	3,000	1,000	3,000	2,000	5,000
U.S. citizen	3,000	1,000	3,000	2,000	5,000
Native-born	4,000	1,000	2,000	2,000	5,000
Naturalized	8,000	12,000	S	S	S
Non-U.S. citizen	8,000	6,000	2,000	S	S
Permanent resident	20,000	18,000	S	S	S
Temporary resident	13,000	S	2,000	S	S
Economists	7,000	16,000	S	S	6,000
U.S. citizen	8,000	28,000	S	S	6,000
Native-born	8,000	22,000	S	S	6,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	20,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Political/related scientists	10,000	S	S	S	S
U.S. citizen	10,000	S	S	S	S
Native-born	S	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-social/related sciences	5,000	S	2,000	7,000	S
U.S. citizen	9,000	S	4,000	7,000	S
Native-born	9,000	S	4,000	6,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Psychologists	1,000	1,000	4,000	1,000	4,000
U.S. citizen	1,000	1,000	4,000	2,000	4,000
Native-born	1,000	1,000	4,000	2,000	3,000
Naturalized	13,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	10,000	8,000	1,000	S	S
U.S. citizen	10,000	8,000	S	S	S
Native-born	11,000	7,000	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	7,000	16,000	11,000	S	4,000
U.S. citizen	6,000	9,000	S	S	6,000
Native-born	7,000	12,000	S	S	7,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	11,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Engineers	1,000	500	2,000	S	2,000
U.S. citizen	500	1,000	5,000	S	2,000
Native-born	500	2,000	5,000	S	3,000
Naturalized	1,000	2,000	37,000	S	4,000
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	3,000	4,000	S	S	S
Temporary resident	4,000	2,000	1,000	S	S
Aerospace/aeronautical/astronautical engineers	4,000	5,000	26,000	S	6,000
U.S. citizen	5,000	4,000	S	S	6,000
Native-born	5,000	5,000	S	S	5,000
Naturalized	5,000	8,000	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	3,000	2,000	1,000	S	S
U.S. citizen	3,000	3,000	S	S	S
Native-born	5,000	4,000	S	S	S
Naturalized	12,000	11,000	S	S	S
Non-U.S. citizen	7,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Civil/architectural/sanitary engineers	2,000	3,000	S	S	4,000
U.S. citizen	3,000	3,000	S	S	4,000
Native-born	5,000	4,000	S	S	2,000
Naturalized	4,000	3,000	S	S	2,000
Non-U.S. citizen	5,000	5,000	S	S	S
Permanent resident	13,000	S	S	S	S
Temporary resident	4,000	6,000	S	S	S
Electrical/computer hardware engineers	1,000	2,000	3,000	S	6,000
U.S. citizen	2,000	2,000	17,000	S	6,000
Native-born	3,000	3,000	S	S	6,000
Naturalized	3,000	3,000	S	S	S
Non-U.S. citizen	4,000	1,000	2,000	S	S
Permanent resident	6,000	6,000	S	S	S
Temporary resident	5,000	3,000	2,000	S	S
Industrial engineers	3,000	5,000	S	S	S
U.S. citizen	3,000	4,000	S	S	S
Native-born	3,000	5,000	S	S	S
Naturalized	9,000	S	S	S	S
Non-U.S. citizen	8,000	8,000	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Mechanical engineers	3,000	3,000	500	S	3,000
U.S. citizen	2,000	2,000	6,000	S	3,000
Native-born	1,000	2,000	S	S	3,000
Naturalized	3,000	3,000	S	S	S
Non-U.S. citizen	4,000	3,000	S	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	2,000	4,000	S	S	S
Postsecondary teachers-engineering	5,000	S	8,000	S	S
U.S. citizen	7,000	S	8,000	S	S
Native-born	8,000	S	7,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other engineers	2,000	3,000	5,000	S	4,000
U.S. citizen	2,000	3,000	10,000	S	4,000
Native-born	3,000	2,000	7,000	S	4,000
Naturalized	5,000	2,000	S	S	6,000
Non-U.S. citizen	6,000	2,000	1,000	S	S
Permanent resident	5,000	6,000	S	S	S
Temporary resident	5,000	2,000	1,000	S	S
S&E-related occupations	1,000	2,000	4,000	1,000	2,000
U.S. citizen	1,000	2,000	4,000	1,000	2,000
Native-born	1,000	1,000	4,000	1,000	3,000
Naturalized	2,000	5,000	3,000	2,000	3,000
Non-U.S. citizen	5,000	4,000	1,000	6,000	S
Permanent resident	5,000	7,000	S	S	S
Temporary resident	3,000	6,000	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Health-related occupations	3,000	2,000	4,000	1,000	3,000
U.S. citizen	2,000	2,000	4,000	1,000	3,000
Native-born	2,000	2,000	4,000	1,000	2,000
Naturalized	3,000	6,000	5,000	S	4,000
Non-U.S. citizen	3,000	4,000	S	S	S
Permanent resident	4,000	4,000	S	S	S
Temporary resident	S	S	S	S	S
S&E managers	2,000	2,000	4,000	S	4,000
U.S. citizen	2,000	3,000	4,000	S	4,000
Native-born	2,000	3,000	5,000	S	4,000
Naturalized	7,000	5,000	S	S	S
Non-U.S. citizen	6,000	5,000	S	S	S
Permanent resident	5,000	4,000	S	S	S
Temporary resident	S	S	S	S	S
S&E precollege teachers	1,000	S	S	1,000	S
U.S. citizen	1,000	S	S	1,000	S
Native-born	1,000	S	S	1,000	S
Naturalized	2,000	S	S	2,000	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	2,000	4,000	7,000	S	9,000
U.S. citizen	2,000	5,000	7,000	S	12,000
Native-born	3,000	4,000	10,000	S	13,000
Naturalized	6,000	10,000	S	S	S
Non-U.S. citizen	3,000	4,000	S	S	S
Permanent resident	8,000	7,000	S	S	S
Temporary resident	8,000	7,000	S	S	S
Other S&E-related occupations	3,000	3,000	S	S	S
U.S. citizen	3,000	4,000	S	S	S
Native-born	6,000	9,000	S	S	S
Naturalized	5,000	4,000	S	S	S
Non-U.S. citizen	5,000	6,000	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	1,000	3,000	2,000	1,000	1,000
U.S. citizen	1,000	2,000	2,000	1,000	1,000
Native-born	1,000	3,000	2,000	1,000	1,000
Naturalized	3,000	4,000	5,000	3,000	3,000
Non-U.S. citizen	3,000	8,000	9,000	1,000	6,000
Permanent resident	3,000	4,000	3,000	1,000	S
Temporary resident	16,000	16,000	3,000	S	S
Art/humanities/related occupations	2,000	6,000	S	S	S
U.S. citizen	3,000	6,000	S	S	S
Native-born	2,000	6,000	S	S	S
Naturalized	14,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Management-related occupations	2,000	2,000	2,000	10,000	1,000
U.S. citizen	2,000	2,000	3,000	10,000	2,000
Native-born	2,000	2,000	2,000	9,000	3,000
Naturalized	6,000	7,000	S	S	3,000
Non-U.S. citizen	8,000	9,000	S	S	S
Permanent resident	9,000	8,000	S	S	S
Temporary resident	10,000	12,000	S	S	S
Non-S&E managers	3,000	5,000	5,000	2,000	4,000
U.S. citizen	3,000	5,000	5,000	2,000	4,000
Native-born	4,000	5,000	4,000	2,000	4,000
Naturalized	6,000	12,000	S	S	S
Non-U.S. citizen	15,000	14,000	S	S	S
Permanent resident	17,000	17,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E postsecondary teachers	2,000	S	4,000	5,000	S
U.S. citizen	2,000	S	4,000	5,000	S
Native-born	3,000	S	4,000	5,000	S
Naturalized	5,000	S	S	S	S
Non-U.S. citizen	2,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E precollege/other teachers	1,000	15,000	S	2,000	S
U.S. citizen	2,000	16,000	S	2,000	S
Native-born	1,000	S	S	2,000	S
Naturalized	3,000	S	S	3,000	S
Non-U.S. citizen	7,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	5,000	5,000	S	S	S
U.S. citizen	6,000	6,000	S	S	S
Native-born	6,000	6,000	S	S	S
Naturalized	5,000	5,000	S	S	S
Non-U.S. citizen	22,000	22,000	S	S	S
Permanent resident	29,000	29,000	S	S	S
Temporary resident	S	S	S	S	S
Social services/related occupations	1,000	2,000	3,000	2,000	1,000
U.S. citizen	1,000	2,000	3,000	2,000	1,000
Native-born	1,000	2,000	3,000	2,000	1,000
Naturalized	2,000	4,000	S	S	5,000
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	2,000	2,000	2,000	2,000	6,000
U.S. citizen	2,000	3,000	2,000	4,000	7,000
Native-born	2,000	3,000	3,000	5,000	4,000
Naturalized	4,000	5,000	S	S	2,000
Non-U.S. citizen	4,000	6,000	S	S	S
Permanent resident	4,000	7,000	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Doctorate degrees, all occupations	1,000	1,000	1,000	4,000	3,000
U.S. citizen	500	1,000	1,000	4,000	1,000
Native-born	1,000	2,000	500	3,000	2,000
Naturalized	2,000	2,000	3,000	6,000	4,000
Non-U.S. citizen	2,000	1,000	2,000	7,000	5,000
Permanent resident	2,000	3,000	2,000	8,000	8,000
Temporary resident	3,000	2,000	1,000	S	4,000
S&E occupations	500	1,000	1,000	1,000	2,000
U.S. citizen	1,000	2,000	1,000	1,000	1,000
Native-born	1,000	1,000	500	1,000	1,000
Naturalized	1,000	1,000	2,000	5,000	2,000
Non-U.S. citizen	2,000	2,000	2,000	19,000	6,000
Permanent resident	2,000	2,000	2,000	36,000	8,000
Temporary resident	3,000	3,000	1,000	S	4,000
Scientists	1,000	500	500	1,000	1,000
U.S. citizen	500	1,000	1,000	1,000	3,000
Native-born	1,000	1,000	1,000	1,000	3,000
Naturalized	2,000	2,000	2,000	5,000	3,000
Non-U.S. citizen	3,000	2,000	1,000	19,000	7,000
Permanent resident	2,000	2,000	2,000	36,000	9,000
Temporary resident	3,000	1,000	1,000	S	4,000
Biological/agricultural/other life scientists	1,000	1,000	2,000	4,000	4,000
U.S. citizen	1,000	2,000	1,000	2,000	2,000
Native-born	2,000	1,000	500	4,000	3,000
Naturalized	3,000	4,000	4,000	S	4,000
Non-U.S. citizen	2,000	3,000	2,000	S	9,000
Permanent resident	3,000	2,000	3,000	S	18,000
Temporary resident	2,000	9,000	1,000	S	1,000
Agricultural/food scientists	1,000	3,000	4,000	S	6,000
U.S. citizen	2,000	3,000	6,000	S	6,000
Native-born	3,000	4,000	6,000	S	8,000
Naturalized	6,000	10,000	S	S	S
Non-U.S. citizen	9,000	10,000	3,000	S	S
Permanent resident	13,000	S	8,000	S	S
Temporary resident	11,000	S	S	S	S
Biological/medical scientists	1,000	1,000	2,000	S	4,000
U.S. citizen	2,000	2,000	2,000	S	3,000
Native-born	1,000	2,000	2,000	S	4,000
Naturalized	3,000	3,000	4,000	S	5,000
Non-U.S. citizen	3,000	4,000	1,000	S	9,000
Permanent resident	5,000	2,000	5,000	S	15,000
Temporary resident	1,000	11,000	2,000	S	1,000
Environmental life scientists	7,000	S	S	S	9,000
U.S. citizen	8,000	S	S	S	9,000
Native-born	8,000	S	S	S	10,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-life/related sciences	2,000	S	1,000	4,000	S
U.S. citizen	1,000	S	2,000	2,000	S
Native-born	2,000	S	1,000	4,000	S
Naturalized	9,000	S	9,000	S	S
Non-U.S. citizen	3,000	S	5,000	S	S
Permanent resident	7,000	S	2,000	S	S
Temporary resident	5,000	S	5,000	S	S
Computer/mathematical scientists	1,000	3,000	2,000	5,000	4,000
U.S. citizen	3,000	3,000	1,000	7,000	5,000
Native-born	1,000	4,000	1,000	9,000	8,000
Naturalized	3,000	4,000	6,000	15,000	8,000
Non-U.S. citizen	4,000	4,000	6,000	S	S
Permanent resident	7,000	5,000	18,000	S	S
Temporary resident	7,000	2,000	2,000	S	S
Computer/information scientists	1,000	2,000	4,000	S	4,000
U.S. citizen	3,000	3,000	4,000	S	5,000
Native-born	2,000	3,000	5,000	S	7,000
Naturalized	4,000	5,000	8,000	S	S
Non-U.S. citizen	5,000	4,000	4,000	S	S
Permanent resident	5,000	6,000	S	S	S
Temporary resident	2,000	3,000	S	S	S
Mathematical scientists	3,000	5,000	4,000	S	5,000
U.S. citizen	3,000	3,000	8,000	S	6,000
Native-born	5,000	3,000	7,000	S	7,000
Naturalized	4,000	7,000	11,000	S	14,000
Non-U.S. citizen	2,000	9,000	3,000	S	S
Permanent resident	14,000	7,000	S	S	S
Temporary resident	7,000	4,000	S	S	S
Postsecondary teachers-computer/mathematical sciences	2,000	S	3,000	5,000	S
U.S. citizen	2,000	S	2,000	8,000	S
Native-born	1,000	S	2,000	9,000	S
Naturalized	6,000	S	7,000	15,000	S
Non-U.S. citizen	11,000	S	11,000	S	S
Permanent resident	18,000	S	19,000	S	S
Temporary resident	3,000	S	3,000	S	S
Physical/related scientists	2,000	1,000	1,000	2,000	3,000
U.S. citizen	1,000	2,000	1,000	2,000	2,000
Native-born	1,000	1,000	1,000	1,000	3,000
Naturalized	2,000	4,000	3,000	S	9,000
Non-U.S. citizen	4,000	2,000	3,000	S	9,000
Permanent resident	2,000	2,000	3,000	S	S
Temporary resident	6,000	2,000	2,000	S	S
Chemists, except biochemists	1,000	2,000	5,000	S	6,000
U.S. citizen	2,000	1,000	8,000	S	6,000
Native-born	2,000	2,000	5,000	S	7,000
Naturalized	1,000	4,000	S	S	14,000
Non-U.S. citizen	2,000	2,000	4,000	S	S
Permanent resident	4,000	3,000	S	S	S
Temporary resident	12,000	2,000	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Earth/atmospheric/ocean scientists	1,000	3,000	4,000	S	4,000
U.S. citizen	4,000	6,000	2,000	S	5,000
Native-born	3,000	3,000	3,000	S	5,000
Naturalized	6,000	S	9,000	S	16,000
Non-U.S. citizen	9,000	2,000	6,000	S	S
Permanent resident	9,000	S	S	S	S
Temporary resident	10,000	S	S	S	S
Physicists/astronomers	3,000	4,000	5,000	S	2,000
U.S. citizen	3,000	3,000	4,000	S	500
Native-born	2,000	4,000	4,000	S	500
Naturalized	10,000	6,000	6,000	S	5,000
Non-U.S. citizen	9,000	9,000	6,000	S	S
Permanent resident	15,000	4,000	6,000	S	S
Temporary resident	5,000	S	8,000	S	S
Postsecondary teachers-physical/related sciences	1,000	S	1,000	2,000	S
U.S. citizen	1,000	S	1,000	2,000	S
Native-born	1,000	S	1,000	1,000	S
Naturalized	5,000	S	6,000	S	S
Non-U.S. citizen	2,000	S	2,000	S	S
Permanent resident	5,000	S	6,000	S	S
Temporary resident	5,000	S	5,000	S	S
Other physical/related scientists	3,000	17,000	30,000	S	8,000
U.S. citizen	1,000	17,000	S	S	8,000
Native-born	1,000	14,000	S	S	7,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	14,000	S	S	S	S
Permanent resident	17,000	S	S	S	S
Temporary resident	S	S	S	S	S
Social/related scientists	1,000	4,000	500	2,000	1,000
U.S. citizen	1,000	4,000	500	2,000	1,000
Native-born	1,000	1,000	1,000	2,000	1,000
Naturalized	5,000	2,000	5,000	4,000	6,000
Non-U.S. citizen	2,000	3,000	3,000	S	S
Permanent resident	2,000	2,000	1,000	S	S
Temporary resident	10,000	30,000	7,000	S	S
Economists	2,000	9,000	9,000	S	6,000
U.S. citizen	4,000	8,000	9,000	S	6,000
Native-born	6,000	9,000	12,000	S	8,000
Naturalized	12,000	9,000	S	S	9,000
Non-U.S. citizen	9,000	21,000	S	S	S
Permanent resident	8,000	3,000	S	S	S
Temporary resident	27,000	4,000	S	S	S
Political/related scientists	5,000	15,000	2,000	S	S
U.S. citizen	6,000	S	3,000	S	S
Native-born	9,000	S	2,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Postsecondary teachers-social/related sciences	2,000	S	500	5,000	S
U.S. citizen	2,000	S	1,000	6,000	S
Native-born	1,000	S	2,000	8,000	S
Naturalized	6,000	S	6,000	S	S
Non-U.S. citizen	3,000	S	3,000	S	S
Permanent resident	3,000	S	3,000	S	S
Temporary resident	10,000	S	10,000	S	S
Psychologists	1,000	2,000	1,000	4,000	1,000
U.S. citizen	1,000	2,000	2,000	4,000	1,000
Native-born	1,000	3,000	2,000	4,000	1,000
Naturalized	4,000	7,000	17,000	S	7,000
Non-U.S. citizen	5,000	10,000	S	S	S
Permanent resident	500	10,000	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	1,000	2,000	5,000	S	2,000
U.S. citizen	2,000	2,000	3,000	S	2,000
Native-born	2,000	1,000	3,000	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	500	9,000	5,000	S	5,000
U.S. citizen	500	6,000	5,000	S	3,000
Native-born	2,000	7,000	5,000	S	5,000
Naturalized	8,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Engineers	2,000	1,000	2,000	S	3,000
U.S. citizen	2,000	2,000	2,000	S	2,000
Native-born	2,000	2,000	2,000	S	2,000
Naturalized	1,000	1,000	3,000	S	4,000
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	2,000	3,000	2,000	S	S
Temporary resident	3,000	2,000	3,000	S	S
Aerospace/aeronautical/astronautical engineers	7,000	8,000	S	S	4,000
U.S. citizen	6,000	9,000	S	S	4,000
Native-born	11,000	15,000	S	S	5,000
Naturalized	10,000	12,000	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	3,000	2,000	22,000	S	31,000
U.S. citizen	4,000	3,000	S	S	31,000
Native-born	2,000	3,000	S	S	S
Naturalized	4,000	4,000	S	S	S
Non-U.S. citizen	5,000	500	S	S	S
Permanent resident	2,000	1,000	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Civil/architectural/sanitary engineers	2,000	2,000	21,000	S	7,000
U.S. citizen	4,000	10,000	S	S	4,000
Native-born	1,000	2,000	S	S	5,000
Naturalized	4,000	2,000	S	S	S
Non-U.S. citizen	3,000	6,000	S	S	S
Permanent resident	12,000	9,000	S	S	S
Temporary resident	S	S	S	S	S
Electrical/computer hardware engineers	1,000	3,000	14,000	S	10,000
U.S. citizen	2,000	2,000	12,000	S	11,000
Native-born	2,000	3,000	13,000	S	14,000
Naturalized	7,000	7,000	11,000	S	S
Non-U.S. citizen	3,000	2,000	S	S	S
Permanent resident	4,000	4,000	S	S	S
Temporary resident	4,000	3,000	S	S	S
Industrial engineers	30,000	31,000	S	S	S
U.S. citizen	39,000	37,000	S	S	S
Native-born	45,000	31,000	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Mechanical engineers	2,000	1,000	13,000	S	4,000
U.S. citizen	3,000	3,000	8,000	S	3,000
Native-born	3,000	3,000	28,000	S	3,000
Naturalized	3,000	4,000	S	S	S
Non-U.S. citizen	5,000	4,000	S	S	S
Permanent resident	6,000	7,000	S	S	S
Temporary resident	6,000	6,000	S	S	S
Postsecondary teachers-engineering	1,000	S	1,000	S	S
U.S. citizen	2,000	S	2,000	S	S
Native-born	2,000	S	2,000	S	S
Naturalized	3,000	S	3,000	S	S
Non-U.S. citizen	2,000	S	2,000	S	S
Permanent resident	2,000	S	2,000	S	S
Temporary resident	2,000	S	2,000	S	S
Other engineers	1,000	2,000	14,000	S	2,000
U.S. citizen	2,000	3,000	2,000	S	2,000
Native-born	1,000	4,000	15,000	S	2,000
Naturalized	4,000	3,000	S	S	6,000
Non-U.S. citizen	4,000	4,000	5,000	S	S
Permanent resident	4,000	3,000	S	S	S
Temporary resident	18,000	5,000	S	S	S
S&E-related occupations	4,000	5,000	2,000	6,000	10,000
U.S. citizen	5,000	3,000	2,000	7,000	10,000
Native-born	4,000	8,000	3,000	7,000	7,000
Naturalized	6,000	9,000	6,000	8,000	500
Non-U.S. citizen	9,000	12,000	5,000	S	S
Permanent resident	8,000	22,000	9,000	S	S
Temporary resident	23,000	16,000	5,000	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Health-related occupations	3,000	20,000	5,000	19,000	4,000
U.S. citizen	3,000	20,000	5,000	28,000	4,000
Native-born	4,000	17,000	3,000	31,000	9,000
Naturalized	14,000	13,000	6,000	S	S
Non-U.S. citizen	15,000	70,000	9,000	S	S
Permanent resident	15,000	15,000	7,000	S	S
Temporary resident	41,000	S	3,000	S	S
S&E managers	2,000	4,000	8,000	S	5,000
U.S. citizen	1,000	1,000	6,000	S	5,000
Native-born	2,000	3,000	5,000	S	6,000
Naturalized	4,000	5,000	S	S	S
Non-U.S. citizen	13,000	11,000	S	S	S
Permanent resident	8,000	8,000	S	S	S
Temporary resident	S	S	S	S	S
S&E precollege teachers	6,000	S	S	7,000	S
U.S. citizen	7,000	S	S	7,000	S
Native-born	7,000	S	S	7,000	S
Naturalized	8,000	S	S	9,000	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	7,000	7,000	6,000	S	19,000
U.S. citizen	7,000	9,000	17,000	S	S
Native-born	11,000	14,000	15,000	S	S
Naturalized	12,000	7,000	S	S	S
Non-U.S. citizen	13,000	17,000	3,000	S	S
Permanent resident	13,000	S	S	S	S
Temporary resident	S	S	S	S	S
Other S&E-related occupations	1,000	S	S	S	S
U.S. citizen	S	S	S	S	S
Native-born	S	S	S	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	4,000	7,000	4,000	7,000	8,000
U.S. citizen	4,000	8,000	4,000	6,000	8,000
Native-born	5,000	8,000	4,000	8,000	7,000
Naturalized	3,000	9,000	3,000	7,000	15,000
Non-U.S. citizen	7,000	14,000	6,000	S	S
Permanent resident	10,000	15,000	5,000	S	S
Temporary resident	8,000	14,000	2,000	S	S
Art/humanities/related occupations	13,000	22,000	3,000	S	S
U.S. citizen	13,000	22,000	2,000	S	S
Native-born	14,000	24,000	2,000	S	S
Naturalized	28,000	27,000	S	S	S
Non-U.S. citizen	48,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Management-related occupations	3,000	9,000	8,000	S	21,000
U.S. citizen	3,000	9,000	8,000	S	22,000
Native-born	3,000	12,000	9,000	S	25,000
Naturalized	17,000	11,000	S	S	S
Non-U.S. citizen	16,000	15,000	S	S	S
Permanent resident	23,000	23,000	S	S	S
Temporary resident	13,000	8,000	S	S	S
Non-S&E managers	7,000	8,000	6,000	9,000	6,000
U.S. citizen	5,000	7,000	6,000	9,000	6,000
Native-born	4,000	8,000	7,000	9,000	8,000
Naturalized	6,000	16,000	21,000	S	S
Non-U.S. citizen	19,000	30,000	S	S	S
Permanent resident	25,000	29,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E postsecondary teachers	3,000	S	2,000	4,000	S
U.S. citizen	3,000	S	2,000	5,000	S
Native-born	3,000	S	3,000	5,000	S
Naturalized	5,000	S	7,000	S	S
Non-U.S. citizen	9,000	S	7,000	S	S
Permanent resident	6,000	S	6,000	S	S
Temporary resident	4,000	S	2,000	S	S
Non-S&E precollege/other teachers	11,000	S	S	8,000	S
U.S. citizen	5,000	S	S	3,000	S
Native-born	4,000	S	S	2,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	23,000	24,000	S	S	S
U.S. citizen	25,000	26,000	S	S	S
Native-born	42,000	42,000	S	S	S
Naturalized	48,000	48,000	S	S	S
Non-U.S. citizen	56,000	61,000	S	S	S
Permanent resident	66,000	70,000	S	S	S
Temporary resident	S	S	S	S	S
Social services/related occupations	8,000	12,000	11,000	9,000	1,000
U.S. citizen	8,000	13,000	11,000	9,000	1,000
Native-born	9,000	15,000	12,000	10,000	S
Naturalized	9,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	4,000	8,000	26,000	S	34,000
U.S. citizen	4,000	8,000	27,000	S	36,000
Native-born	4,000	14,000	28,000	S	34,000
Naturalized	11,000	12,000	S	S	S

TABLE A-26. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003
(Dollars)

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Non-U.S. citizen	13,000	18,000	S	S	S
Permanent resident	12,000	S	S	S	S
Temporary resident	S	S	S	S	S

S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. Business/industry includes self-employed individuals, nonprofit organizations, and other unspecified. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Government includes federal, military, state, and local employers. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
All degree levels and occupations[a]	1,000	1,000	500	500	1,000	1,000
<30	500	500	1,000	2,000	3,000	500
30–39	500	1,000	500	500	2,000	500
40–49	1,000	1,000	1,000	1,000	1,000	2,000
50–59	1,000	1,000	1,000	1,000	2,000	2,000
60+	2,000	3,000	2,000	3,000	2,000	500
S&E occupations	1,000	500	1,000	500	1,000	500
<30	1,000	1,000	1,000	1,000	2,000	1,000
30–39	500	500	2,000	1,000	1,000	1,000
40–49	1,000	2,000	2,000	2,000	1,000	1,000
50–59	1,000	500	1,000	500	1,000	2,000
60+	1,000	1,000	3,000	3,000	3,000	3,000
Scientists	1,000	1,000	1,000	1,000	1,000	1,000
<30	1,000	500	1,000	1,000	3,000	2,000
30–39	1,000	1,000	2,000	1,000	1,000	3,000
40–49	500	2,000	1,000	3,000	2,000	4,000
50–59	1,000	2,000	3,000	1,000	2,000	2,000
60+	3,000	4,000	3,000	3,000	7,000	5,000
Biological/agricultural/other life scientists	2,000	1,000	3,000	2,000	3,000	1,000
<30	1,000	2,000	3,000	1,000	1,000	4,000
30–39	1,000	2,000	1,000	2,000	2,000	3,000
40–49	2,000	3,000	2,000	4,000	6,000	2,000
50–59	2,000	3,000	4,000	3,000	1,000	6,000
60+	5,000	7,000	6,000	9,000	S	10,000
Agricultural/food scientists	2,000	3,000	12,000	2,000	6,000	4,000
<30	8,000	11,000	S	4,000	S	S
30–39	1,000	1,000	S	8,000	S	S
40–49	5,000	7,000	S	5,000	S	18,000
50–59	10,000	6,000	S	13,000	S	20,000
60+	4,000	20,000	S	5,000	S	S
Biological/medical scientists	2,000	2,000	12,000	5,000	3,000	3,000
<30	2,000	1,000	3,000	3,000	2,000	2,000
30–39	2,000	1,000	5,000	5,000	5,000	2,000
40–49	2,000	2,000	9,000	4,000	2,000	4,000
50–59	5,000	5,000	6,000	2,000	3,000	9,000
60+	12,000	13,000	41,000	23,000	S	9,000
Environmental life scientists	4,000	4,000	S	4,000	7,000	8,000
<30	1,000	S	S	S	S	S
30–39	8,000	9,000	S	5,000	S	S
40–49	7,000	16,000	S	6,000	S	5,000
50–59	8,000	8,000	S	10,000	S	13,000
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	3,000	3,000	2,000	4,000	S	10,000
<30	4,000	2,000	6,000	S	S	S
30–39	2,000	4,000	1,000	3,000	S	6,000
40–49	2,000	4,000	2,000	5,000	S	17,000
50–59	5,000	4,000	4,000	4,000	S	4,000
60+	5,000	4,000	6,000	16,000	S	10,000
Computer/mathematical scientists	1,000	1,000	2,000	1,000	500	2,000

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	1,000	2,000	4,000	2,000	1,000	1,000
30–39	1,000	1,000	3,000	500	1,000	2,000
40–49	500	3,000	4,000	3,000	500	4,000
50–59	1,000	1,000	3,000	2,000	2,000	4,000
60+	6,000	7,000	3,000	4,000	8,000	12,000
Computer/information scientists	500	2,000	4,000	1,000	500	2,000
<30	1,000	1,000	2,000	3,000	3,000	4,000
30–39	500	2,000	5,000	1,000	500	2,000
40–49	1,000	3,000	11,000	3,000	500	4,000
50–59	2,000	500	9,000	2,000	2,000	5,000
60+	4,000	7,000	9,000	5,000	8,000	18,000
Mathematical scientists	6,000	5,000	49,000	7,000	10,000	10,000
<30	3,000	4,000	S	4,000	2,000	S
30–39	5,000	5,000	S	14,000	11,000	S
40–49	6,000	5,000	S	7,000	16,000	13,000
50–59	8,000	11,000	S	10,000	12,000	11,000
60+	20,000	25,000	S	S	24,000	S
Postsecondary teachers-computer/mathematical sciences	1,000	4,000	2,000	4,000	5,000	8,000
<30	14,000	7,000	16,000	S	S	S
30–39	2,000	4,000	2,000	4,000	5,000	S
40–49	5,000	5,000	4,000	6,000	18,000	S
50–59	4,000	3,000	5,000	3,000	9,000	56,000
60+	5,000	10,000	6,000	18,000	22,000	9,000
Physical/related scientists	2,000	1,000	3,000	3,000	3,000	2,000
<30	2,000	2,000	1,000	2,000	2,000	3,000
30–39	1,000	2,000	3,000	3,000	6,000	3,000
40–49	2,000	4,000	4,000	3,000	6,000	7,000
50–59	3,000	4,000	3,000	2,000	8,000	4,000
60+	3,000	8,000	5,000	8,000	4,000	14,000
Chemists, except biochemists	1,000	4,000	5,000	3,000	7,000	2,000
<30	2,000	4,000	S	1,000	1,000	2,000
30–39	3,000	3,000	S	5,000	12,000	1,000
40–49	4,000	6,000	S	9,000	5,000	7,000
50–59	3,000	3,000	S	2,000	S	6,000
60+	8,000	8,000	S	9,000	S	17,000
Earth/atmospheric/ocean scientists	3,000	4,000	15,000	3,000	3,000	4,000
<30	4,000	4,000	S	5,000	4,000	5,000
30–39	4,000	3,000	S	5,000	6,000	9,000
40–49	7,000	6,000	S	2,000	10,000	6,000
50–59	8,000	9,000	S	6,000	13,000	6,000
60+	14,000	11,000	S	11,000	S	S
Physicists/astronomers	6,000	5,000	2,000	4,000	10,000	18,000
<30	500	1,000	S	S	1,000	S
30–39	6,000	5,000	S	44,000	5,000	15,000
40–49	3,000	4,000	S	15,000	3,000	S
50–59	3,000	8,000	S	8,000	19,000	S
60+	10,000	12,000	S	20,000	5,000	S
Postsecondary teachers-physical/related sciences	2,000	3,000	3,000	2,000	12,000	2,000
<30	1,000	1,000	1,000	3,000	S	S

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
30–39	2,000	2,000	2,000	24,000	S	2,000
40–49	4,000	1,000	4,000	6,000	S	1,000
50–59	2,000	4,000	2,000	4,000	S	5,000
60+	5,000	8,000	6,000	15,000	S	16,000
Other physical/related scientists	5,000	4,000	S	4,000	5,000	8,000
<30	500	3,000	S	S	S	S
30–39	5,000	5,000	S	4,000	S	4,000
40–49	10,000	10,000	S	17,000	S	17,000
50–59	8,000	18,000	S	7,000	S	10,000
60+	10,000	S	S	S	S	S
Social/related scientists	500	1,000	2,000	2,000	1,000	500
<30	4,000	3,000	3,000	2,000	13,000	2,000
30–39	2,000	2,000	1,000	4,000	6,000	4,000
40–49	4,000	4,000	2,000	5,000	9,000	2,000
50–59	2,000	3,000	2,000	4,000	12,000	2,000
60+	6,000	8,000	4,000	8,000	16,000	4,000
Economists	5,000	6,000	35,000	9,000	14,000	20,000
<30	9,000	15,000	S	S	S	S
30–39	17,000	2,000	S	22,000	11,000	22,000
40–49	8,000	1,000	S	28,000	S	63,000
50–59	13,000	16,000	S	26,000	S	53,000
60+	16,000	29,000	S	22,000	S	20,000
Political/related scientists	2,000	1,000	S	9,000	S	6,000
<30	2,000	8,000	S	S	S	S
30–39	7,000	4,000	S	S	S	S
40–49	5,000	S	S	S	S	S
50–59	23,000	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	2,000	2,000	3,000	7,000	5,000
<30	1,000	1,000	1,000	S	S	S
30–39	1,000	2,000	2,000	15,000	S	1,000
40–49	2,000	2,000	2,000	2,000	S	33,000
50–59	2,000	2,000	2,000	6,000	S	4,000
60+	5,000	5,000	4,000	7,000	S	5,000
Psychologists	1,000	1,000	3,000	3,000	6,000	500
<30	2,000	5,000	S	3,000	S	4,000
30–39	1,000	3,000	13,000	3,000	S	2,000
40–49	5,000	7,000	3,000	8,000	S	4,000
50–59	3,000	3,000	16,000	1,000	S	4,000
60+	2,000	11,000	9,000	8,000	S	1,000
Sociologists/anthropologists	6,000	6,000	31,000	6,000	S	21,000
<30	10,000	10,000	S	S	S	S
30–39	13,000	14,000	S	12,000	S	S
40–49	8,000	6,000	S	11,000	S	S
50–59	5,000	5,000	S	6,000	S	S
60+	4,000	2,000	S	S	S	S
Other social/related scientists	2,000	3,000	S	3,000	7,000	5,000
<30	1,000	3,000	S	1,000	S	2,000
30–39	4,000	1,000	S	5,000	S	7,000

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40–49	8,000	9,000	S	4,000	S	17,000
50–59	5,000	4,000	S	11,000	S	13,000
60+	14,000	14,000	S	4,000	S	S
Engineers	1,000	1,000	2,000	500	500	500
<30	1,000	1,000	3,000	1,000	1,000	2,000
30–39	1,000	500	3,000	1,000	3,000	2,000
40–49	1,000	2,000	3,000	2,000	1,000	2,000
50–59	1,000	2,000	3,000	3,000	1,000	3,000
60+	2,000	4,000	7,000	3,000	5,000	6,000
Aerospace/aeronautical/astronautical engineers	3,000	3,000	S	3,000	2,000	3,000
<30	3,000	1,000	S	3,000	5,000	6,000
30–39	1,000	3,000	S	3,000	6,000	10,000
40–49	3,000	1,000	S	4,000	2,000	8,000
50–59	2,000	2,000	S	5,000	5,000	1,000
60+	3,000	2,000	S	3,000	S	S
Chemical engineers	2,000	3,000	S	3,000	5,000	3,000
<30	1,000	2,000	S	1,000	2,000	1,000
30–39	2,000	2,000	S	5,000	11,000	2,000
40–49	5,000	4,000	S	5,000	9,000	4,000
50–59	3,000	4,000	S	8,000	2,000	13,000
60+	10,000	8,000	S	16,000	S	S
Civil/architectural/sanitary engineers	2,000	1,000	S	2,000	2,000	2,000
<30	1,000	2,000	S	2,000	2,000	2,000
30–39	2,000	1,000	S	3,000	3,000	6,000
40–49	1,000	3,000	S	3,000	2,000	4,000
50–59	2,000	2,000	S	2,000	11,000	6,000
60+	5,000	5,000	S	4,000	13,000	20,000
Electrical/computer hardware engineers	1,000	1,000	7,000	3,000	2,000	1,000
<30	1,000	3,000	S	3,000	1,000	1,000
30–39	1,000	2,000	S	2,000	3,000	2,000
40–49	2,000	2,000	S	2,000	1,000	4,000
50–59	2,000	2,000	S	5,000	4,000	1,000
60+	6,000	4,000	S	8,000	6,000	14,000
Industrial engineers	2,000	3,000	S	2,000	3,000	4,000
<30	1,000	3,000	S	2,000	6,000	1,000
30–39	2,000	3,000	S	4,000	5,000	2,000
40–49	3,000	4,000	S	3,000	2,000	6,000
50–59	5,000	5,000	S	4,000	S	6,000
60+	5,000	S	S	S	S	S
Mechanical engineers	1,000	1,000	4,000	1,000	1,000	1,000
<30	1,000	1,000	S	3,000	3,000	7,000
30–39	1,000	1,000	S	3,000	500	3,000
40–49	1,000	1,000	S	2,000	5,000	3,000
50–59	3,000	2,000	S	4,000	5,000	4,000
60+	4,000	6,000	S	7,000	32,000	7,000
Postsecondary teachers-engineering	2,000	4,000	1,000	4,000	15,000	11,000
<30	2,000	4,000	3,000	S	S	S
30–39	3,000	4,000	5,000	9,000	S	S
40–49	1,000	3,000	1,000	2,000	S	S

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	3,000	4,000	4,000	7,000	S	S
60+	6,000	2,000	8,000	29,000	S	S
Other engineers	2,000	1,000	10,000	2,000	4,000	2,000
<30	2,000	3,000	S	4,000	6,000	500
30–39	2,000	2,000	S	2,000	7,000	4,000
40–49	2,000	4,000	S	3,000	7,000	3,000
50–59	3,000	4,000	S	2,000	12,000	5,000
60+	6,000	10,000	S	6,000	23,000	10,000
S&E-related occupations	1,000	1,000	500	500	2,000	1,000
<30	1,000	1,000	500	500	2,000	1,000
30–39	1,000	2,000	500	2,000	2,000	500
40–49	500	1,000	1,000	2,000	3,000	500
50–59	500	4,000	1,000	2,000	1,000	1,000
60+	1,000	7,000	3,000	3,000	3,000	3,000
Health-related occupations	1,000	2,000	500	2,000	3,000	1,000
<30	500	1,000	1,000	4,000	8,000	1,000
30–39	1,000	1,000	1,000	2,000	8,000	500
40–49	1,000	2,000	1,000	1,000	4,000	1,000
50–59	1,000	5,000	2,000	1,000	3,000	2,000
60+	4,000	15,000	8,000	4,000	9,000	2,000
S&E managers	1,000	3,000	12,000	2,000	1,000	4,000
<30	4,000	19,000	S	3,000	S	S
30–39	3,000	6,000	S	2,000	6,000	5,000
40–49	2,000	2,000	S	2,000	4,000	4,000
50–59	1,000	7,000	S	1,000	8,000	8,000
60+	4,000	15,000	S	4,000	S	2,000
S&E precollege teachers	1,000	1,000	1,000	1,000	3,000	3,000
<30	1,000	2,000	1,000	1,000	4,000	3,000
30–39	1,000	2,000	1,000	2,000	5,000	2,000
40–49	2,000	2,000	1,000	1,000	3,000	8,000
50–59	500	2,000	500	1,000	3,000	4,000
60+	2,000	15,000	3,000	4,000	S	S
S&E technicians/technologists	1,000	3,000	8,000	1,000	3,000	2,000
<30	2,000	3,000	S	4,000	6,000	3,000
30–39	2,000	2,000	S	4,000	3,000	3,000
40–49	3,000	4,000	S	1,000	3,000	3,000
50–59	1,000	5,000	S	4,000	3,000	1,000
60+	10,000	13,000	S	21,000	7,000	3,000
Other S&E-related occupations	1,000	3,000	S	3,000	5,000	3,000
<30	3,000	4,000	S	6,000	5,000	S
30–39	3,000	2,000	S	3,000	11,000	4,000
40–49	4,000	6,000	S	4,000	S	7,000
50–59	8,000	10,000	S	8,000	S	5,000
60+	11,000	7,000	S	8,000	S	S
Non-S&E occupations	500	1,000	1,000	500	2,000	500
<30	1,000	2,000	1,000	500	2,000	1,000
30–39	500	1,000	2,000	1,000	2,000	1,000
40–49	2,000	1,000	1,000	2,000	4,000	2,000
50–59	2,000	1,000	3,000	2,000	4,000	500

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
60+	3,000	5,000	5,000	2,000	3,000	3,000
Art/humanities/related occupations	3,000	5,000	3,000	4,000	7,000	3,000
<30	1,000	8,000	S	1,000	S	3,000
30–39	6,000	4,000	S	6,000	15,000	13,000
40–49	7,000	8,000	S	10,000	S	8,000
50–59	4,000	21,000	S	8,000	S	5,000
60+	6,000	19,000	S	10,000	S	10,000
Management-related occupations	2,000	4,000	5,000	2,000	5,000	3,000
<30	3,000	6,000	S	2,000	4,000	4,000
30–39	3,000	7,000	12,000	4,000	8,000	5,000
40–49	3,000	5,000	11,000	3,000	7,000	3,000
50–59	3,000	7,000	6,000	3,000	4,000	5,000
60+	3,000	18,000	S	5,000	8,000	4,000
Non-S&E managers	2,000	1,000	6,000	2,000	9,000	2,000
<30	3,000	S	S	2,000	S	S
30–39	3,000	8,000	S	3,000	29,000	8,000
40–49	3,000	9,000	5,000	3,000	14,000	5,000
50–59	3,000	11,000	7,000	3,000	19,000	13,000
60+	5,000	10,000	18,000	5,000	14,000	17,000
Non-S&E postsecondary teachers	1,000	3,000	1,000	2,000	15,000	4,000
<30	17,000	16,000	14,000	S	S	S
30–39	5,000	6,000	5,000	5,000	S	14,000
40–49	3,000	4,000	2,000	5,000	S	6,000
50–59	4,000	9,000	4,000	5,000	S	12,000
60+	5,000	9,000	5,000	8,000	S	5,000
Non-S&E precollege/other teachers	1,000	1,000	1,000	2,000	7,000	4,000
<30	2,000	4,000	1,000	2,000	S	4,000
30–39	2,000	2,000	2,000	2,000	S	4,000
40–49	2,000	5,000	2,000	3,000	10,000	5,000
50–59	2,000	4,000	2,000	5,000	10,000	3,000
60+	9,000	S	11,000	5,000	S	29,000
Sales/marketing occupations	4,000	4,000	2,000	3,000	5,000	2,000
<30	2,000	4,000	S	2,000	5,000	6,000
30–39	5,000	11,000	S	5,000	5,000	9,000
40–49	4,000	10,000	S	5,000	19,000	12,000
50–59	7,000	7,000	S	6,000	11,000	9,000
60+	5,000	4,000	S	3,000	12,000	4,000
Social services/related occupations	1,000	1,000	2,000	1,000	2,000	1,000
<30	1,000	2,000	1,000	1,000	7,000	1,000
30–39	1,000	7,000	2,000	2,000	6,000	1,000
40–49	2,000	5,000	7,000	2,000	2,000	2,000
50–59	2,000	4,000	4,000	3,000	5,000	2,000
60+	6,000	9,000	6,000	4,000	S	6,000
Other non-S&E occupations	500	2,000	2,000	1,000	3,000	1,000
<30	1,000	3,000	3,000	1,000	2,000	2,000
30–39	1,000	6,000	7,000	2,000	5,000	2,000
40–49	2,000	4,000	2,000	2,000	3,000	3,000
50–59	1,000	5,000	3,000	3,000	4,000	3,000
60+	4,000	7,000	7,000	4,000	10,000	5,000

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Bachelor's degrees, all occupations	500	1,000	1,000	1,000	1,000	2,000
<30	1,000	2,000	2,000	1,000	2,000	3,000
30–39	500	500	1,000	1,000	1,000	1,000
40–49	1,000	1,000	1,000	1,000	2,000	500
50–59	2,000	2,000	1,000	2,000	500	2,000
60+	2,000	7,000	5,000	1,000	4,000	2,000
S&E occupations	1,000	1,000	3,000	1,000	1,000	1,000
<30	1,000	500	2,000	2,000	1,000	1,000
30–39	500	1,000	2,000	2,000	2,000	2,000
40–49	1,000	1,000	2,000	1,000	2,000	1,000
50–59	2,000	1,000	6,000	1,000	500	2,000
60+	4,000	3,000	9,000	3,000	10,000	9,000
Scientists	500	1,000	1,000	2,000	1,000	2,000
<30	1,000	500	2,000	2,000	1,000	3,000
30–39	1,000	2,000	5,000	1,000	1,000	3,000
40–49	2,000	1,000	5,000	1,000	2,000	3,000
50–59	2,000	2,000	4,000	2,000	1,000	2,000
60+	6,000	9,000	9,000	7,000	9,000	11,000
Biological/agricultural/other life scientists	2,000	2,000	4,000	2,000	4,000	4,000
<30	1,000	3,000	4,000	2,000	8,000	3,000
30–39	2,000	2,000	S	3,000	S	2,000
40–49	3,000	3,000	S	3,000	7,000	6,000
50–59	4,000	7,000	S	4,000	S	5,000
60+	7,000	S	S	S	S	S
Agricultural/food scientists	5,000	6,000	S	3,000	S	4,000
<30	11,000	S	S	S	S	S
30–39	1,000	S	S	S	S	S
40–49	4,000	13,000	S	S	S	S
50–59	17,000	S	S	S	S	S
60+	S	S	S	S	S	S
Biological/medical scientists	1,000	3,000	3,000	3,000	3,000	3,000
<30	1,000	2,000	S	3,000	S	3,000
30–39	2,000	1,000	S	4,000	S	2,000
40–49	4,000	3,000	S	4,000	S	2,000
50–59	3,000	7,000	S	10,000	S	8,000
60+	S	S	S	S	S	S
Environmental life scientists	4,000	12,000	S	4,000	S	11,000
<30	1,000	S	S	S	S	S
30–39	11,000	S	S	S	S	S
40–49	9,000	S	S	7,000	S	S
50–59	5,000	S	S	9,000	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	6,000	3,000	6,000	S	S	S
<30	3,000	S	1,000	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Computer/mathematical scientists	1,000	2,000	3,000	1,000	1,000	2,000
<30	1,000	2,000	4,000	2,000	1,000	1,000
30–39	2,000	3,000	3,000	2,000	2,000	4,000
40–49	2,000	2,000	7,000	1,000	2,000	6,000
50–59	1,000	4,000	3,000	2,000	1,000	3,000
60+	12,000	7,000	15,000	17,000	13,000	S
Computer/information scientists	1,000	1,000	4,000	1,000	1,000	2,000
<30	1,000	1,000	2,000	2,000	500	3,000
30–39	1,000	2,000	5,000	2,000	2,000	5,000
40–49	2,000	1,000	16,000	1,000	2,000	5,000
50–59	500	4,000	9,000	2,000	1,000	3,000
60+	14,000	7,000	S	13,000	15,000	S
Mathematical scientists	7,000	8,000	S	8,000	10,000	25,000
<30	4,000	2,000	S	S	S	S
30–39	2,000	S	S	S	S	S
40–49	21,000	S	S	20,000	S	S
50–59	18,000	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	6,000	17,000	6,000	S	10,000	S
<30	1,000	S	1,000	S	S	S
30–39	S	S	S	S	S	S
40–49	15,000	S	9,000	S	S	S
50–59	5,000	S	5,000	S	S	S
60+	S	S	S	S	S	S
Physical/related scientists	1,000	2,000	5,000	3,000	2,000	2,000
<30	2,000	3,000	500	2,000	7,000	2,000
30–39	3,000	2,000	S	3,000	7,000	2,000
40–49	6,000	6,000	S	5,000	7,000	7,000
50–59	3,000	9,000	S	8,000	S	6,000
60+	5,000	4,000	S	S	S	S
Chemists, except biochemists	3,000	3,000	S	5,000	7,000	2,000
<30	2,000	4,000	S	1,000	S	1,000
30–39	2,000	1,000	S	5,000	S	2,000
40–49	5,000	8,000	S	9,000	S	9,000
50–59	6,000	5,000	S	14,000	S	2,000
60+	6,000	S	S	S	S	S
Earth/atmospheric/ocean scientists	4,000	3,000	S	2,000	2,000	4,000
<30	3,000	6,000	S	2,000	S	6,000
30–39	4,000	3,000	S	5,000	S	S
40–49	5,000	14,000	S	4,000	S	S
50–59	8,000	17,000	S	S	S	S
60+	S	S	S	S	S	S
Physicists/astronomers	6,000	4,000	S	S	5,000	S
<30	2,000	2,000	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-physical/related sciences	1,000	1,000	1,000	S	S	S

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	500	1,000	500	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other physical/related scientists	2,000	2,000	S	2,000	S	4,000
<30	1,000	S	S	S	S	S
30–39	8,000	9,000	S	S	S	S
40–49	8,000	S	S	3,000	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Social/related scientists	2,000	2,000	4,000	2,000	5,000	3,000
<30	3,000	4,000	5,000	2,000	S	3,000
30–39	7,000	9,000	S	7,000	S	11,000
40–49	5,000	6,000	S	16,000	S	19,000
50–59	19,000	18,000	S	23,000	S	S
60+	35,000	S	S	S	S	S
Economists	11,000	12,000	S	22,000	S	S
<30	3,000	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Political/related scientists	3,000	4,000	S	S	S	S
<30	4,000	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	1,000	26,000	2,000	S	S	S
<30	1,000	S	4,000	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Psychologists	4,000	5,000	S	S	S	5,000
<30	7,000	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Sociologists/anthropologists	6,000	18,000	S	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other social/related scientists	4,000	8,000	S	5,000	6,000	5,000
<30	3,000	5,000	S	3,000	S	2,000

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
30–39	8,000	3,000	S	7,000	S	S
40–49	11,000	S	S	14,000	S	S
50–59	13,000	12,000	S	15,000	S	S
60+	S	S	S	S	S	S
Engineers	500	500	6,000	1,000	1,000	2,000
<30	1,000	1,000	3,000	1,000	2,000	1,000
30–39	1,000	2,000	8,000	1,000	4,000	3,000
40–49	1,000	1,000	13,000	1,000	3,000	1,000
50–59	2,000	1,000	19,000	1,000	4,000	1,000
60+	3,000	5,000	S	4,000	6,000	9,000
Aerospace/aeronautical/astronautical engineers	2,000	1,000	S	4,000	4,000	3,000
<30	500	500	S	15,000	500	7,000
30–39	3,000	4,000	S	3,000	S	S
40–49	1,000	2,000	S	8,000	2,000	S
50–59	5,000	9,000	S	4,000	S	S
60+	6,000	9,000	S	S	S	S
Chemical engineers	2,000	2,000	S	4,000	5,000	5,000
<30	2,000	2,000	S	1,000	S	3,000
30–39	3,000	3,000	S	7,000	S	2,000
40–49	4,000	8,000	S	4,000	S	4,000
50–59	6,000	5,000	S	15,000	S	S
60+	S	S	S	S	S	S
Civil/architectural/sanitary engineers	1,000	1,000	S	1,000	3,000	3,000
<30	1,000	1,000	S	1,000	2,000	2,000
30–39	2,000	3,000	S	4,000	3,000	5,000
40–49	2,000	5,000	S	3,000	3,000	5,000
50–59	3,000	3,000	S	4,000	7,000	10,000
60+	7,000	9,000	S	8,000	S	32,000
Electrical/computer hardware engineers	500	500	S	2,000	2,000	2,000
<30	500	1,000	S	1,000	1,000	2,000
30–39	3,000	3,000	S	4,000	1,000	2,000
40–49	2,000	3,000	S	4,000	2,000	5,000
50–59	2,000	3,000	S	4,000	4,000	7,000
60+	7,000	7,000	S	17,000	S	S
Industrial engineers	1,000	2,000	S	2,000	3,000	4,000
<30	1,000	3,000	S	2,000	1,000	2,000
30–39	2,000	3,000	S	3,000	S	2,000
40–49	3,000	4,000	S	3,000	S	8,000
50–59	3,000	6,000	S	3,000	S	11,000
60+	S	S	S	S	S	S
Mechanical engineers	1,000	1,000	S	2,000	2,000	3,000
<30	1,000	1,000	S	3,000	4,000	6,000
30–39	2,000	2,000	S	2,000	2,000	3,000
40–49	2,000	2,000	S	1,000	13,000	4,000
50–59	3,000	2,000	S	3,000	4,000	6,000
60+	5,000	7,000	S	7,000	S	8,000
Postsecondary teachers-engineering	2,000	2,000	4,000	S	S	S
<30	2,000	8,000	2,000	S	S	S
30–39	S	S	S	S	S	S

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other engineers	2,000	3,000	11,000	1,000	6,000	2,000
<30	3,000	5,000	S	5,000	7,000	7,000
30–39	3,000	6,000	S	3,000	10,000	6,000
40–49	3,000	3,000	S	4,000	12,000	4,000
50–59	2,000	5,000	S	2,000	10,000	3,000
60+	11,000	13,000	S	12,000	S	28,000
S&E-related occupations	1,000	1,000	500	1,000	2,000	500
<30	1,000	2,000	1,000	2,000	2,000	2,000
30–39	1,000	2,000	2,000	500	3,000	2,000
40–49	500	3,000	1,000	2,000	3,000	2,000
50–59	1,000	3,000	3,000	2,000	4,000	1,000
60+	4,000	10,000	5,000	5,000	4,000	2,000
Health-related occupations	1,000	2,000	2,000	1,000	2,000	1,000
<30	3,000	2,000	2,000	2,000	4,000	2,000
30–39	1,000	2,000	2,000	2,000	3,000	1,000
40–49	1,000	2,000	1,000	1,000	9,000	2,000
50–59	1,000	5,000	3,000	2,000	5,000	2,000
60+	3,000	13,000	12,000	2,000	S	3,000
S&E managers	3,000	4,000	S	4,000	2,000	5,000
<30	4,000	S	S	3,000	S	S
30–39	4,000	7,000	S	3,000	7,000	7,000
40–49	3,000	4,000	S	3,000	5,000	3,000
50–59	5,000	11,000	S	5,000	6,000	16,000
60+	3,000	S	S	2,000	S	S
S&E precollege teachers	1,000	1,000	1,000	1,000	2,000	2,000
<30	1,000	2,000	500	1,000	S	S
30–39	500	2,000	500	1,000	8,000	4,000
40–49	2,000	2,000	2,000	2,000	2,000	1,000
50–59	2,000	8,000	2,000	3,000	7,000	3,000
60+	6,000	S	6,000	S	S	S
S&E technicians/technologists	2,000	1,000	9,000	2,000	500	2,000
<30	1,000	2,000	S	4,000	5,000	3,000
30–39	2,000	3,000	S	6,000	3,000	4,000
40–49	3,000	5,000	S	3,000	2,000	4,000
50–59	2,000	6,000	S	4,000	3,000	2,000
60+	8,000	14,000	S	24,000	7,000	S
Other S&E-related occupations	3,000	3,000	S	3,000	3,000	4,000
<30	3,000	5,000	S	6,000	3,000	S
30–39	3,000	3,000	S	4,000	9,000	4,000
40–49	6,000	7,000	S	2,000	S	10,000
50–59	10,000	19,000	S	10,000	S	8,000
60+	9,000	5,000	S	9,000	S	S
Non-S&E occupations	1,000	1,000	1,000	1,000	2,000	1,000
<30	500	1,000	1,000	1,000	3,000	1,000
30–39	2,000	2,000	1,000	500	2,000	1,000
40–49	3,000	5,000	1,000	2,000	3,000	3,000

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	3,000	6,000	2,000	2,000	4,000	1,000
60+	2,000	6,000	9,000	4,000	4,000	2,000
Art/humanities/related occupations	5,000	4,000	8,000	5,000	8,000	5,000
<30	1,000	12,000	S	1,000	S	3,000
30–39	5,000	4,000	S	9,000	S	11,000
40–49	13,000	6,000	S	9,000	S	5,000
50–59	5,000	19,000	S	7,000	S	5,000
60+	S	S	S	S	S	S
Management-related occupations	1,000	3,000	8,000	1,000	5,000	4,000
<30	2,000	8,000	S	4,000	3,000	6,000
30–39	2,000	5,000	S	2,000	9,000	5,000
40–49	3,000	7,000	11,000	3,000	17,000	11,000
50–59	2,000	8,000	S	2,000	20,000	7,000
60+	5,000	16,000	S	8,000	S	18,000
Non-S&E managers	3,000	4,000	9,000	3,000	11,000	6,000
<30	4,000	S	S	4,000	S	S
30–39	6,000	5,000	S	6,000	S	7,000
40–49	2,000	10,000	S	1,000	17,000	10,000
50–59	3,000	19,000	S	3,000	S	6,000
60+	7,000	S	S	8,000	S	S
Non-S&E postsecondary teachers	5,000	22,000	7,000	3,000	S	S
<30	2,000	S	1,000	S	S	S
30–39	14,000	S	S	S	S	S
40–49	18,000	S	S	S	S	S
50–59	2,000	S	2,000	S	S	S
60+	S	S	S	S	S	S
Non-S&E precollege/other teachers	2,000	2,000	2,000	2,000	11,000	6,000
<30	1,000	1,000	1,000	1,000	S	2,000
30–39	3,000	3,000	3,000	1,000	S	S
40–49	4,000	3,000	4,000	2,000	S	S
50–59	6,000	S	6,000	13,000	S	S
60+	4,000	S	6,000	S	S	S
Sales/marketing occupations	1,000	3,000	7,000	1,000	4,000	3,000
<30	1,000	4,000	S	1,000	6,000	5,000
30–39	4,000	10,000	S	4,000	4,000	8,000
40–49	4,000	9,000	S	3,000	13,000	17,000
50–59	8,000	14,000	S	8,000	17,000	9,000
60+	4,000	S	S	3,000	S	10,000
Social services/related occupations	500	1,000	1,000	1,000	2,000	1,000
<30	1,000	3,000	1,000	1,000	S	1,000
30–39	1,000	S	3,000	1,000	S	1,000
40–49	2,000	S	2,000	3,000	S	2,000
50–59	3,000	S	5,000	6,000	S	3,000
60+	4,000	S	S	S	S	4,000
Other non-S&E occupations	500	2,000	2,000	1,000	2,000	1,000
<30	1,000	1,000	4,000	1,000	2,000	1,000
30–39	2,000	9,000	8,000	2,000	3,000	2,000
40–49	2,000	6,000	5,000	2,000	3,000	2,000
50–59	1,000	5,000	8,000	1,000	6,000	2,000

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
60+	2,000	9,000	S	5,000	S	4,000
Master's degrees, all occupations	500	1,000	1,000	1,000	1,000	500
<30	1,000	1,000	1,000	1,000	2,000	1,000
30–39	2,000	2,000	2,000	1,000	2,000	1,000
40–49	1,000	2,000	2,000	1,000	2,000	2,000
50–59	1,000	3,000	1,000	500	1,000	2,000
60+	2,000	5,000	2,000	5,000	5,000	4,000
S&E occupations	500	1,000	2,000	1,000	1,000	1,000
<30	2,000	2,000	2,000	3,000	2,000	3,000
30–39	1,000	1,000	2,000	2,000	1,000	2,000
40–49	2,000	1,000	1,000	2,000	2,000	3,000
50–59	2,000	2,000	2,000	3,000	4,000	3,000
60+	4,000	7,000	10,000	6,000	3,000	5,000
Scientists	500	1,000	2,000	1,000	1,000	2,000
<30	1,000	3,000	2,000	2,000	2,000	1,000
30–39	1,000	1,000	2,000	3,000	1,000	3,000
40–49	3,000	2,000	1,000	3,000	1,000	5,000
50–59	2,000	3,000	3,000	3,000	3,000	3,000
60+	4,000	9,000	7,000	4,000	7,000	4,000
Biological/agricultural/other life scientists	1,000	2,000	2,000	5,000	2,000	5,000
<30	2,000	6,000	13,000	9,000	S	4,000
30–39	2,000	3,000	5,000	9,000	S	15,000
40–49	3,000	2,000	5,000	5,000	S	6,000
50–59	3,000	6,000	4,000	7,000	S	7,000
60+	19,000	S	S	S	S	S
Agricultural/food scientists	6,000	7,000	S	5,000	S	S
<30	5,000	S	S	S	S	S
30–39	4,000	4,000	S	S	S	S
40–49	7,000	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Biological/medical scientists	2,000	2,000	S	3,000	7,000	8,000
<30	2,000	5,000	S	3,000	S	S
30–39	6,000	4,000	S	11,000	S	11,000
40–49	5,000	6,000	S	9,000	S	8,000
50–59	2,000	3,000	S	3,000	S	S
60+	S	S	S	S	S	S
Environmental life scientists	2,000	2,000	S	6,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	2,000	8,000	3,000	7,000	S	S
<30	16,000	S	S	S	S	S
30–39	4,000	S	2,000	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Computer/mathematical scientists	1,000	2,000	2,000	3,000	500	4,000
<30	3,000	5,000	8,000	11,000	4,000	13,000
30–39	500	2,000	3,000	2,000	1,000	5,000
40–49	1,000	2,000	6,000	4,000	2,000	6,000
50–59	3,000	1,000	10,000	5,000	3,000	8,000
60+	8,000	11,000	11,000	13,000	7,000	S
Computer/information scientists	2,000	1,000	8,000	1,000	1,000	3,000
<30	3,000	4,000	S	10,000	4,000	S
30–39	3,000	2,000	S	3,000	2,000	5,000
40–49	2,000	3,000	S	3,000	2,000	6,000
50–59	3,000	2,000	31,000	6,000	5,000	6,000
60+	9,000	9,000	S	16,000	8,000	S
Mathematical scientists	3,000	7,000	S	4,000	7,000	4,000
<30	9,000	10,000	S	S	6,000	S
30–39	5,000	10,000	S	4,000	12,000	S
40–49	9,000	15,000	S	S	S	S
50–59	15,000	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	2,000	4,000	2,000	3,000	7,000	15,000
<30	3,000	S	2,000	S	S	S
30–39	2,000	9,000	2,000	S	S	S
40–49	3,000	S	2,000	S	S	S
50–59	12,000	S	12,000	S	S	S
60+	10,000	S	10,000	S	S	S
Physical/related scientists	4,000	3,000	12,000	2,000	6,000	4,000
<30	11,000	17,000	2,000	2,000	8,000	7,000
30–39	4,000	7,000	14,000	6,000	6,000	3,000
40–49	5,000	5,000	S	2,000	24,000	3,000
50–59	6,000	6,000	S	3,000	S	5,000
60+	12,000	19,000	S	S	S	25,000
Chemists, except biochemists	1,000	4,000	S	6,000	S	5,000
<30	8,000	16,000	S	S	S	S
30–39	6,000	5,000	S	12,000	S	4,000
40–49	5,000	10,000	S	7,000	S	S
50–59	9,000	6,000	S	S	S	S
60+	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	6,000	8,000	S	7,000	11,000	3,000
<30	4,000	7,000	S	S	S	S
30–39	7,000	4,000	S	S	S	S
40–49	5,000	4,000	S	5,000	S	S
50–59	4,000	10,000	S	S	S	S
60+	S	S	S	S	S	S
Physicists/astronomers	10,000	19,000	S	S	21,000	S
<30	500	1,000	S	S	S	S
30–39	14,000	32,000	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Postsecondary teachers-physical/related sciences	10,000	11,000	11,000	19,000	S	S
<30	1,000	2,000	1,000	S	S	S
30–39	9,000	S	9,000	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other physical/related scientists	7,000	9,000	S	8,000	S	9,000
<30	S	S	S	S	S	S
30–39	9,000	6,000	S	7,000	S	S
40–49	12,000	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Social/related scientists	3,000	2,000	7,000	3,000	3,000	2,000
<30	4,000	5,000	2,000	1,000	S	2,000
30–39	2,000	1,000	4,000	5,000	1,000	3,000
40–49	4,000	7,000	7,000	9,000	S	5,000
50–59	2,000	10,000	5,000	4,000	S	4,000
60+	5,000	15,000	14,000	24,000	S	6,000
Economists	7,000	5,000	S	16,000	S	24,000
<30	13,000	S	S	S	S	S
30–39	17,000	4,000	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Political/related scientists	10,000	S	S	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	5,000	5,000	5,000	6,000	S	13,000
<30	1,000	1,000	1,000	S	S	S
30–39	10,000	13,000	8,000	S	S	S
40–49	11,000	S	11,000	S	S	S
50–59	6,000	S	6,000	S	S	S
60+	19,000	S	18,000	S	S	S
Psychologists	1,000	2,000	6,000	1,000	S	1,000
<30	10,000	5,000	S	S	S	1,000
30–39	2,000	1,000	S	5,000	S	3,000
40–49	3,000	11,000	S	7,000	S	4,000
50–59	3,000	13,000	S	3,000	S	4,000
60+	7,000	S	S	S	S	7,000
Sociologists/anthropologists	10,000	9,000	S	8,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other social/related scientists	7,000	5,000	S	11,000	S	10,000

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	1,000	3,000	S	2,000	S	S
30–39	3,000	9,000	S	6,000	S	S
40–49	8,000	14,000	S	16,000	S	S
50–59	14,000	S	S	15,000	S	S
60+	S	S	S	S	S	S
Engineers	1,000	1,000	5,000	2,000	2,000	2,000
<30	1,000	1,000	S	5,000	5,000	3,000
30–39	2,000	2,000	5,000	1,000	1,000	3,000
40–49	2,000	3,000	4,000	3,000	2,000	3,000
50–59	2,000	2,000	S	4,000	4,000	5,000
60+	5,000	6,000	S	4,000	7,000	3,000
Aerospace/aeronautical/astronautical engineers	4,000	6,000	S	4,000	2,000	11,000
<30	5,000	5,000	S	S	9,000	S
30–39	3,000	3,000	S	4,000	S	S
40–49	5,000	6,000	S	2,000	S	S
50–59	6,000	4,000	S	11,000	S	S
60+	3,000	500	S	S	S	S
Chemical engineers	3,000	7,000	S	4,000	13,000	6,000
<30	3,000	3,000	S	S	S	S
30–39	2,000	2,000	S	S	S	S
40–49	7,000	9,000	S	S	S	S
50–59	10,000	6,000	S	S	S	S
60+	S	S	S	S	S	S
Civil/architectural/sanitary engineers	2,000	3,000	S	2,000	3,000	5,000
<30	3,000	3,000	S	2,000	2,000	2,000
30–39	2,000	2,000	S	3,000	3,000	9,000
40–49	3,000	3,000	S	4,000	S	8,000
50–59	3,000	6,000	S	3,000	S	5,000
60+	7,000	7,000	S	10,000	S	S
Electrical/computer hardware engineers	1,000	1,000	S	3,000	3,000	7,000
<30	3,000	6,000	S	12,000	4,000	S
30–39	2,000	3,000	S	3,000	3,000	6,000
40–49	5,000	6,000	S	4,000	3,000	9,000
50–59	3,000	3,000	S	10,000	7,000	S
60+	8,000	5,000	S	10,000	S	S
Industrial engineers	3,000	4,000	S	4,000	7,000	4,000
<30	5,000	2,000	S	13,000	S	S
30–39	6,000	6,000	S	15,000	S	S
40–49	2,000	3,000	S	2,000	S	S
50–59	9,000	S	S	S	S	S
60+	S	S	S	S	S	S
Mechanical engineers	3,000	3,000	S	3,000	4,000	3,000
<30	5,000	4,000	S	3,000	8,000	S
30–39	1,000	3,000	S	5,000	4,000	S
40–49	1,000	2,000	S	3,000	9,000	9,000
50–59	6,000	9,000	S	11,000	S	S
60+	10,000	12,000	S	13,000	S	S
Postsecondary teachers-engineering	5,000	9,000	5,000	S	S	S
<30	6,000	S	S	S	S	S

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
30–39	6,000	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other engineers	2,000	4,000	S	3,000	5,000	4,000
<30	2,000	6,000	S	1,000	11,000	1,000
30–39	3,000	4,000	S	3,000	8,000	4,000
40–49	5,000	9,000	S	7,000	S	5,000
50–59	5,000	5,000	S	5,000	S	5,000
60+	17,000	22,000	S	10,000	S	S
S&E-related occupations	1,000	2,000	1,000	1,000	2,000	2,000
<30	1,000	2,000	500	4,000	6,000	2,000
30–39	1,000	2,000	2,000	4,000	5,000	2,000
40–49	2,000	4,000	1,000	4,000	4,000	2,000
50–59	2,000	4,000	1,000	3,000	6,000	2,000
60+	3,000	1,000	4,000	4,000	5,000	3,000
Health-related occupations	3,000	2,000	1,000	2,000	5,000	2,000
<30	2,000	4,000	2,000	2,000	S	2,000
30–39	2,000	3,000	2,000	3,000	S	3,000
40–49	2,000	8,000	5,000	3,000	11,000	3,000
50–59	2,000	2,000	2,000	3,000	11,000	2,000
60+	2,000	S	5,000	11,000	S	2,000
S&E managers	2,000	3,000	S	2,000	5,000	5,000
<30	S	S	S	S	S	S
30–39	3,000	7,000	S	4,000	7,000	5,000
40–49	3,000	4,000	S	3,000	8,000	10,000
50–59	6,000	9,000	S	5,000	7,000	16,000
60+	2,000	S	S	11,000	S	S
S&E precollege teachers	1,000	2,000	1,000	2,000	3,000	1,000
<30	2,000	4,000	2,000	2,000	S	S
30–39	1,000	4,000	1,000	1,000	S	S
40–49	2,000	2,000	2,000	2,000	10,000	5,000
50–59	1,000	4,000	1,000	1,000	3,000	6,000
60+	5,000	S	5,000	7,000	S	S
S&E technicians/technologists	2,000	3,000	S	6,000	5,000	4,000
<30	7,000	6,000	S	S	S	S
30–39	3,000	5,000	S	12,000	8,000	4,000
40–49	3,000	6,000	S	6,000	6,000	4,000
50–59	9,000	9,000	S	6,000	9,000	11,000
60+	S	S	S	S	S	S
Other S&E-related occupations	3,000	5,000	S	7,000	1,000	12,000
<30	S	S	S	S	S	S
30–39	5,000	6,000	S	4,000	S	S
40–49	7,000	12,000	S	7,000	S	9,000
50–59	12,000	18,000	S	23,000	S	S
60+	S	S	S	S	S	S
Non-S&E occupations	1,000	3,000	1,000	500	3,000	1,000
<30	2,000	4,000	4,000	3,000	4,000	2,000
30–39	4,000	7,000	1,000	2,000	9,000	1,000

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40–49	1,000	2,000	2,000	2,000	5,000	2,000
50–59	1,000	5,000	2,000	2,000	3,000	2,000
60+	2,000	10,000	9,000	2,000	15,000	7,000
Art/humanities/related occupations	2,000	11,000	S	4,000	26,000	4,000
<30	22,000	S	S	S	S	S
30–39	5,000	S	S	5,000	S	S
40–49	9,000	20,000	S	14,000	S	7,000
50–59	11,000	S	S	S	S	17,000
60+	S	S	S	S	S	S
Management-related occupations	2,000	6,000	5,000	2,000	4,000	4,000
<30	1,000	1,000	S	1,000	3,000	1,000
30–39	2,000	11,000	S	4,000	4,000	7,000
40–49	4,000	4,000	S	4,000	16,000	7,000
50–59	4,000	6,000	S	3,000	4,000	7,000
60+	4,000	S	S	4,000	S	11,000
Non-S&E managers	3,000	3,000	6,000	2,000	14,000	5,000
<30	13,000	S	S	10,000	S	S
30–39	9,000	10,000	S	9,000	S	24,000
40–49	3,000	18,000	S	5,000	S	6,000
50–59	4,000	8,000	S	4,000	S	17,000
60+	8,000	S	S	10,000	S	S
Non-S&E postsecondary teachers	2,000	9,000	3,000	4,000	10,000	5,000
<30	4,000	S	5,000	S	S	S
30–39	4,000	2,000	6,000	S	S	S
40–49	4,000	S	4,000	4,000	S	S
50–59	2,000	8,000	2,000	6,000	S	S
60+	17,000	S	18,000	S	S	S
Non-S&E precollege/other teachers	1,000	3,000	1,000	2,000	7,000	1,000
<30	4,000	S	5,000	2,000	S	S
30–39	2,000	1,000	2,000	5,000	S	5,000
40–49	3,000	2,000	2,000	3,000	S	5,000
50–59	1,000	3,000	1,000	4,000	S	5,000
60+	11,000	S	4,000	S	S	S
Sales/marketing occupations	5,000	11,000	S	5,000	12,000	6,000
<30	2,000	S	S	2,000	S	S
30–39	7,000	11,000	S	7,000	S	13,000
40–49	4,000	20,000	S	3,000	S	8,000
50–59	5,000	9,000	S	4,000	S	19,000
60+	3,000	S	S	4,000	S	S
Social services/related occupations	1,000	2,000	2,000	1,000	3,000	1,000
<30	1,000	S	1,000	3,000	S	1,000
30–39	500	4,000	2,000	2,000	S	1,000
40–49	2,000	4,000	6,000	2,000	S	2,000
50–59	2,000	3,000	3,000	3,000	S	2,000
60+	3,000	S	S	2,000	S	4,000
Other non-S&E occupations	2,000	5,000	3,000	2,000	6,000	2,000
<30	2,000	7,000	S	2,000	S	7,000
30–39	4,000	13,000	8,000	5,000	21,000	3,000
40–49	3,000	9,000	10,000	3,000	7,000	3,000

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50–59	4,000	7,000	4,000	4,000	12,000	4,000
60+	4,000	4,000	S	6,000	S	5,000
Doctorate degrees, all occupations	1,000	2,000	1,000	2,000	3,000	2,000
<30	7,000	4,000	5,000	6,000	11,000	2,000
30–39	2,000	1,000	1,000	3,000	6,000	3,000
40–49	1,000	500	1,000	2,000	2,000	2,000
50–59	2,000	2,000	1,000	2,000	3,000	2,000
60+	3,000	2,000	3,000	1,000	6,000	4,000
S&E occupations	500	500	1,000	500	500	2,000
<30	5,000	5,000	6,000	3,000	8,000	4,000
30–39	1,000	2,000	1,000	500	2,000	2,000
40–49	500	2,000	1,000	500	2,000	1,000
50–59	500	2,000	1,000	2,000	3,000	2,000
60+	3,000	2,000	2,000	2,000	2,000	5,000
Scientists	1,000	1,000	500	1,000	2,000	500
<30	1,000	1,000	3,000	5,000	31,000	4,000
30–39	1,000	2,000	500	500	2,000	2,000
40–49	2,000	500	500	2,000	2,000	1,000
50–59	1,000	1,000	1,000	3,000	2,000	1,000
60+	2,000	2,000	2,000	4,000	4,000	5,000
Biological/agricultural/other life scientists	1,000	1,000	2,000	2,000	4,000	4,000
<30	2,000	2,000	S	3,000	S	S
30–39	2,000	2,000	4,000	2,000	2,000	4,000
40–49	1,000	2,000	4,000	4,000	4,000	3,000
50–59	500	2,000	1,000	1,000	2,000	7,000
60+	3,000	4,000	2,000	8,000	S	16,000
Agricultural/food scientists	1,000	2,000	S	4,000	8,000	4,000
<30	S	S	S	S	S	S
30–39	6,000	7,000	S	9,000	S	S
40–49	5,000	5,000	S	3,000	S	6,000
50–59	4,000	3,000	S	6,000	S	3,000
60+	10,000	16,000	S	13,000	S	S
Biological/medical scientists	1,000	3,000	14,000	3,000	5,000	4,000
<30	2,000	2,000	S	2,000	S	S
30–39	1,000	1,000	1,000	4,000	2,000	5,000
40–49	1,000	1,000	23,000	4,000	7,000	5,000
50–59	4,000	4,000	6,000	3,000	6,000	13,000
60+	3,000	5,000	S	5,000	S	20,000
Environmental life scientists	7,000	6,000	S	18,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	32,000	34,000	S	S	S	S
50–59	10,000	9,000	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	2,000	2,000	2,000	2,000	S	6,000
<30	S	S	S	S	S	S
30–39	1,000	3,000	1,000	4,000	S	S
40–49	2,000	4,000	2,000	3,000	S	S
50–59	1,000	2,000	2,000	4,000	S	4,000

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
60+	3,000	4,000	2,000	6,000	S	13,000
Computer/mathematical scientists	1,000	3,000	1,000	4,000	2,000	1,000
<30	9,000	8,000	500	S	S	S
30–39	3,000	2,000	3,000	3,000	2,000	10,000
40–49	3,000	2,000	4,000	5,000	1,000	7,000
50–59	4,000	4,000	5,000	2,000	5,000	4,000
60+	5,000	3,000	8,000	8,000	5,000	12,000
Computer/information scientists	1,000	3,000	6,000	4,000	1,000	2,000
<30	S	S	S	S	S	S
30–39	4,000	5,000	S	5,000	3,000	6,000
40–49	4,000	2,000	S	6,000	6,000	10,000
50–59	6,000	9,000	S	8,000	7,000	3,000
60+	5,000	1,000	S	5,000	9,000	S
Mathematical scientists	3,000	3,000	52,000	5,000	4,000	12,000
<30	S	S	S	S	S	S
30–39	5,000	7,000	S	5,000	9,000	S
40–49	3,000	4,000	S	10,000	2,000	S
50–59	3,000	4,000	S	10,000	17,000	S
60+	6,000	5,000	S	S	11,000	S
Postsecondary teachers-computer/mathematical sciences	2,000	5,000	1,000	5,000	3,000	13,000
<30	500	S	500	S	S	S
30–39	3,000	1,000	3,000	10,000	S	S
40–49	4,000	3,000	3,000	6,000	33,000	S
50–59	5,000	2,000	5,000	4,000	10,000	14,000
60+	5,000	6,000	8,000	5,000	4,000	7,000
Physical/related scientists	2,000	1,000	1,000	1,000	3,000	3,000
<30	5,000	6,000	S	S	S	S
30–39	2,000	2,000	1,000	4,000	5,000	4,000
40–49	1,000	3,000	1,000	3,000	1,000	8,000
50–59	2,000	1,000	2,000	7,000	4,000	8,000
60+	2,000	3,000	4,000	4,000	5,000	9,000
Chemists, except biochemists	1,000	1,000	7,000	1,000	11,000	3,000
<30	10,000	10,000	S	S	S	S
30–39	2,000	2,000	S	4,000	S	6,000
40–49	1,000	1,000	S	6,000	S	6,000
50–59	4,000	3,000	S	6,000	S	12,000
60+	3,000	4,000	S	10,000	S	22,000
Earth/atmospheric/ocean scientists	1,000	2,000	S	6,000	3,000	21,000
<30	S	S	S	S	S	S
30–39	4,000	4,000	S	4,000	9,000	S
40–49	4,000	4,000	S	6,000	9,000	S
50–59	9,000	3,000	S	13,000	9,000	S
60+	5,000	6,000	S	S	S	S
Physicists/astronomers	3,000	2,000	3,000	4,000	4,000	3,000
<30	S	S	S	S	S	S
30–39	4,000	5,000	S	6,000	5,000	12,000
40–49	2,000	3,000	S	3,000	3,000	S
50–59	3,000	4,000	S	6,000	5,000	S
60+	8,000	11,000	S	4,000	S	S

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Postsecondary teachers-physical/related sciences	1,000	1,000	1,000	3,000	9,000	6,000
<30	S	S	S	S	S	S
30–39	1,000	2,000	2,000	7,000	S	1,000
40–49	1,000	2,000	1,000	3,000	S	6,000
50–59	3,000	4,000	2,000	5,000	S	4,000
60+	3,000	2,000	4,000	4,000	S	12,000
Other physical/related scientists	3,000	3,000	S	4,000	S	16,000
<30	S	S	S	S	S	S
30–39	13,000	12,000	S	S	S	S
40–49	1,000	2,000	S	S	S	S
50–59	7,000	8,000	S	S	S	S
60+	S	S	S	S	S	S
Social/related scientists	1,000	500	1,000	2,000	3,000	1,000
<30	6,000	4,000	S	S	S	S
30–39	2,000	1,000	2,000	2,000	8,000	3,000
40–49	1,000	1,000	2,000	1,000	7,000	1,000
50–59	1,000	1,000	2,000	1,000	3,000	1,000
60+	3,000	4,000	2,000	3,000	43,000	1,000
Economists	2,000	1,000	S	8,000	5,000	7,000
<30	S	S	S	S	S	S
30–39	4,000	5,000	S	5,000	S	S
40–49	8,000	7,000	S	8,000	S	12,000
50–59	21,000	19,000	S	26,000	S	10,000
60+	18,000	17,000	S	S	S	S
Political/related scientists	5,000	4,000	S	9,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	1,000	2,000	1,000	33,000	3,000
<30	2,000	S	S	S	S	S
30–39	2,000	500	1,000	3,000	S	3,000
40–49	2,000	2,000	1,000	2,000	S	10,000
50–59	500	2,000	500	5,000	S	3,000
60+	2,000	5,000	2,000	6,000	S	13,000
Psychologists	1,000	2,000	3,000	1,000	6,000	2,000
<30	S	S	S	S	S	S
30–39	1,000	3,000	5,000	4,000	S	4,000
40–49	1,000	4,000	3,000	1,000	S	2,000
50–59	3,000	6,000	5,000	3,000	S	3,000
60+	2,000	5,000	8,000	5,000	S	2,000
Sociologists/anthropologists	1,000	1,000	10,000	5,000	S	6,000
<30	S	S	S	S	S	S
30–39	6,000	6,000	S	9,000	S	S
40–49	2,000	3,000	S	4,000	S	S
50–59	2,000	2,000	S	5,000	S	S
60+	27,000	29,000	S	S	S	S

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other social/related scientists	500	1,000	S	2,000	S	2,000
<30	S	S	S	S	S	S
30–39	5,000	6,000	S	2,000	S	S
40–49	1,000	9,000	S	1,000	S	S
50–59	8,000	10,000	S	10,000	S	S
60+	19,000	16,000	S	S	S	S
Engineers	2,000	2,000	2,000	3,000	3,000	2,000
<30	4,000	4,000	S	S	S	S
30–39	1,000	2,000	3,000	2,000	3,000	4,000
40–49	1,000	2,000	2,000	500	4,000	5,000
50–59	500	1,000	3,000	1,000	4,000	4,000
60+	3,000	4,000	4,000	12,000	12,000	15,000
Aerospace/aeronautical/astronautical engineers	7,000	7,000	S	5,000	3,000	S
<30	S	S	S	S	S	S
30–39	500	500	S	S	S	S
40–49	9,000	8,000	S	S	S	S
50–59	7,000	7,000	S	S	S	S
60+	26,000	29,000	S	S	S	S
Chemical engineers	3,000	3,000	S	8,000	6,000	3,000
<30	S	S	S	S	S	S
30–39	1,000	1,000	S	3,000	S	2,000
40–49	2,000	4,000	S	12,000	S	S
50–59	2,000	2,000	S	S	S	S
60+	12,000	4,000	S	S	S	S
Civil/architectural/sanitary engineers	2,000	4,000	S	8,000	6,000	15,000
<30	S	S	S	S	S	S
30–39	6,000	4,000	S	S	S	S
40–49	7,000	8,000	S	18,000	S	S
50–59	2,000	4,000	S	2,000	S	S
60+	7,000	8,000	S	14,000	S	S
Electrical/computer hardware engineers	1,000	1,000	S	2,000	2,000	5,000
<30	S	S	S	S	S	S
30–39	2,000	2,000	S	1,000	3,000	S
40–49	4,000	3,000	S	8,000	9,000	7,000
50–59	6,000	8,000	S	12,000	7,000	S
60+	7,000	5,000	S	27,000	S	S
Industrial engineers	30,000	30,000	S	4,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	500	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Mechanical engineers	2,000	1,000	S	5,000	6,000	6,000
<30	S	S	S	S	S	S
30–39	5,000	3,000	S	1,000	S	S
40–49	2,000	1,000	S	5,000	7,000	S
50–59	4,000	4,000	S	15,000	S	S
60+	14,000	12,000	S	S	S	S
Postsecondary teachers-engineering	1,000	2,000	2,000	4,000	10,000	8,000

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	S	S	S	S	S	S
30–39	2,000	2,000	3,000	4,000	S	S
40–49	2,000	4,000	2,000	3,000	S	S
50–59	4,000	3,000	3,000	10,000	S	S
60+	4,000	3,000	3,000	16,000	S	S
Other engineers	1,000	2,000	S	4,000	2,000	6,000
<30	1,000	1,000	S	S	S	S
30–39	1,000	2,000	S	3,000	10,000	10,000
40–49	5,000	5,000	S	3,000	10,000	3,000
50–59	2,000	3,000	S	2,000	8,000	13,000
60+	8,000	8,000	S	15,000	S	25,000
S&E-related occupations	4,000	5,000	4,000	6,000	6,000	4,000
<30	2,000	S	S	S	S	2,000
30–39	3,000	9,000	3,000	8,000	3,000	13,000
40–49	5,000	3,000	2,000	6,000	4,000	15,000
50–59	7,000	14,000	4,000	5,000	11,000	14,000
60+	10,000	4,000	8,000	3,000	20,000	26,000
Health-related occupations	3,000	4,000	3,000	2,000	11,000	5,000
<30	2,000	S	S	S	S	S
30–39	2,000	4,000	1,000	3,000	S	7,000
40–49	6,000	7,000	6,000	10,000	S	17,000
50–59	8,000	13,000	4,000	16,000	S	20,000
60+	8,000	10,000	10,000	8,000	S	30,000
S&E managers	2,000	3,000	S	3,000	13,000	7,000
<30	S	S	S	S	S	S
30–39	4,000	3,000	S	3,000	S	14,000
40–49	2,000	2,000	S	5,000	S	8,000
50–59	2,000	3,000	S	2,000	13,000	8,000
60+	8,000	10,000	S	8,000	S	S
S&E precollege teachers	6,000	11,000	7,000	6,000	S	S
<30	S	S	S	S	S	S
30–39	2,000	S	2,000	S	S	S
40–49	6,000	S	6,000	S	S	S
50–59	7,000	S	3,000	S	S	S
60+	15,000	S	13,000	S	S	S
S&E technicians/technologists	7,000	12,000	S	7,000	5,000	42,000
<30	S	S	S	S	S	S
30–39	13,000	30,000	S	7,000	10,000	S
40–49	12,000	21,000	S	S	6,000	S
50–59	6,000	7,000	S	S	6,000	S
60+	56,000	S	S	S	S	S
Other S&E-related occupations	1,000	S	S	S	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	S	S	S	S	S	S
50–59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Non-S&E occupations	4,000	5,000	1,000	5,000	3,000	3,000
<30	S	S	S	S	S	S

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
30–39	6,000	5,000	3,000	8,000	7,000	13,000
40–49	5,000	10,000	4,000	6,000	2,000	6,000
50–59	6,000	11,000	2,000	3,000	4,000	5,000
60+	5,000	12,000	7,000	11,000	3,000	12,000
Art/humanities/related occupations	13,000	27,000	S	25,000	S	22,000
<30	S	S	S	S	S	S
30–39	11,000	S	S	4,000	S	12,000
40–49	11,000	26,000	S	30,000	S	18,000
50–59	26,000	5,000	S	15,000	S	30,000
60+	18,000	11,000	S	14,000	S	7,000
Management-related occupations	3,000	9,000	11,000	2,000	2,000	11,000
<30	S	S	S	S	S	S
30–39	1,000	4,000	S	2,000	13,000	16,000
40–49	15,000	5,000	S	15,000	15,000	12,000
50–59	11,000	31,000	S	11,000	7,000	17,000
60+	29,000	51,000	S	37,000	S	52,000
Non-S&E managers	7,000	9,000	7,000	5,000	22,000	6,000
<30	S	S	S	S	S	S
30–39	1,000	11,000	S	1,000	S	1,000
40–49	8,000	16,000	6,000	8,000	24,000	9,000
50–59	8,000	12,000	37,000	8,000	S	10,000
60+	13,000	19,000	21,000	10,000	S	62,000
Non-S&E postsecondary teachers	3,000	2,000	2,000	5,000	S	4,000
<30	S	S	S	S	S	S
30–39	2,000	2,000	3,000	5,000	S	S
40–49	3,000	3,000	3,000	7,000	S	2,000
50–59	5,000	6,000	5,000	11,000	S	6,000
60+	6,000	9,000	6,000	8,000	S	8,000
Non-S&E precollege/other teachers	11,000	S	7,000	19,000	S	S
<30	S	S	S	S	S	S
30–39	S	S	S	S	S	S
40–49	10,000	S	6,000	S	S	S
50–59	3,000	S	1,000	S	S	S
60+	S	S	S	S	S	S
Sales/marketing occupations	23,000	62,000	S	26,000	28,000	12,000
<30	S	S	S	S	S	S
30–39	6,000	22,000	S	6,000	S	S
40–49	74,000	9,000	S	59,000	S	S
50–59	34,000	10,000	S	39,000	S	12,000
60+	64,000	S	S	70,000	S	S
Social services/related occupations	8,000	8,000	11,000	3,000	S	9,000
<30	S	S	S	S	S	S
30–39	7,000	S	S	S	S	7,000
40–49	2,000	S	S	6,000	S	7,000
50–59	9,000	S	11,000	3,000	S	12,000
60+	15,000	S	S	7,000	S	17,000
Other non-S&E occupations	4,000	2,000	26,000	4,000	7,000	9,000
<30	S	S	S	S	S	S
30–39	6,000	5,000	S	10,000	S	16,000

TABLE A-27. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

(Dollars)

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40–49	9,000	4,000	S	10,000	S	29,000
50–59	10,000	6,000	S	16,000	S	11,000
60+	15,000	5,000	6,000	22,000	S	40,000

S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. Respondents may have provided multiple responses for work activity. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
All degree levels and occupations[a]	1,000	500	1,000	500	1,000	1,000	1,000	1,000	2,000
Male	1,000	1,000	1,000	1,000	2,000	2,000	1,000	3,000	3,000
Female	500	500	500	1,000	2,000	2,000	2,000	2,000	2,000
S&E occupations	1,000	500	1,000	500	500	1,000	500	2,000	2,000
Male	500	1,000	1,000	500	2,000	2,000	2,000	1,000	2,000
Female	1,000	1,000	2,000	1,000	1,000	2,000	1,000	5,000	5,000
Scientists	1,000	500	500	1,000	2,000	2,000	500	4,000	3,000
Male	1,000	500	500	2,000	2,000	2,000	1,000	3,000	4,000
Female	1,000	500	1,000	2,000	1,000	3,000	1,000	5,000	5,000
Biological/agricultural/other life scientists	2,000	1,000	2,000	3,000	3,000	5,000	4,000	5,000	10,000
Male	1,000	1,000	1,000	3,000	5,000	4,000	2,000	5,000	7,000
Female	2,000	1,000	3,000	4,000	3,000	6,000	4,000	9,000	5,000
Agricultural/food scientists	2,000	3,000	4,000	3,000	6,000	11,000	12,000	13,000	5,000
Male	2,000	3,000	5,000	5,000	9,000	13,000	15,000	17,000	5,000
Female	4,000	8,000	3,000	4,000	14,000	S	S	S	S
Biological/medical scientists	2,000	3,000	1,000	2,000	5,000	7,000	5,000	7,000	5,000
Male	2,000	3,000	2,000	7,000	11,000	12,000	8,000	10,000	16,000
Female	2,000	4,000	3,000	4,000	6,000	6,000	6,000	9,000	5,000
Environmental life scientists	4,000	1,000	3,000	8,000	3,000	13,000	2,000	10,000	S
Male	4,000	1,000	3,000	7,000	4,000	14,000	2,000	10,000	S
Female	7,000	7,000	S	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	3,000	7,000	4,000	3,000	5,000	2,000	7,000	3,000	7,000
Male	3,000	8,000	2,000	4,000	7,000	2,000	3,000	2,000	4,000
Female	6,000	5,000	11,000	3,000	7,000	15,000	2,000	5,000	S
Computer/mathematical scientists	1,000	1,000	2,000	2,000	2,000	2,000	2,000	4,000	3,000
Male	1,000	2,000	1,000	500	1,000	2,000	2,000	4,000	5,000
Female	1,000	2,000	3,000	1,000	4,000	4,000	1,000	6,000	6,000
Computer/information scientists	500	2,000	1,000	2,000	2,000	2,000	2,000	4,000	4,000
Male	1,000	2,000	500	1,000	2,000	2,000	2,000	4,000	7,000
Female	500	2,000	2,000	2,000	3,000	5,000	1,000	6,000	9,000
Mathematical scientists	6,000	3,000	5,000	6,000	8,000	7,000	19,000	25,000	22,000
Male	5,000	1,000	11,000	15,000	2,000	13,000	21,000	8,000	37,000
Female	4,000	2,000	3,000	1,000	3,000	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	1,000	4,000	2,000	7,000	8,000	10,000	9,000	7,000	7,000
Male	3,000	6,000	2,000	5,000	7,000	8,000	7,000	9,000	15,000
Female	2,000	5,000	3,000	6,000	8,000	23,000	36,000	7,000	S
Physical/related scientists	2,000	1,000	2,000	3,000	3,000	6,000	3,000	4,000	5,000
Male	2,000	500	3,000	5,000	4,000	6,000	6,000	5,000	8,000
Female	1,000	2,000	3,000	4,000	6,000	7,000	8,000	14,000	10,000
Chemists, except biochemists	1,000	4,000	3,000	3,000	4,000	9,000	8,000	2,000	3,000
Male	2,000	2,000	5,000	7,000	3,000	6,000	7,000	2,000	3,000
Female	3,000	4,000	3,000	9,000	10,000	19,000	10,000	S	S
Earth/atmospheric/ocean scientists	3,000	1,000	5,000	8,000	6,000	8,000	11,000	25,000	19,000
Male	3,000	2,000	5,000	7,000	8,000	8,000	12,000	24,000	26,000

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Female	5,000	3,000	10,000	12,000	S	S	S	S	S
Physicists/astronomers	6,000	5,000	4,000	4,000	2,000	2,000	6,000	26,000	16,000
Male	4,000	5,000	5,000	5,000	3,000	2,000	6,000	24,000	24,000
Female	6,000	17,000	12,000	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	2,000	500	4,000	4,000	3,000	4,000	6,000	6,000	13,000
Male	3,000	3,000	6,000	7,000	4,000	4,000	6,000	6,000	14,000
Female	7,000	1,000	28,000	2,000	9,000	5,000	S	S	S
Other physical/related scientists	5,000	2,000	7,000	3,000	5,000	20,000	13,000	S	S
Male	6,000	2,000	8,000	6,000	S	30,000	9,000	S	S
Female	2,000	3,000	8,000	S	S	S	S	S	S
Social/related scientists	500	2,000	2,000	3,000	5,000	3,000	4,000	7,000	7,000
Male	4,000	2,000	3,000	8,000	4,000	7,000	4,000	10,000	8,000
Female	1,000	2,000	2,000	3,000	4,000	6,000	6,000	9,000	16,000
Economists	5,000	15,000	16,000	3,000	19,000	65,000	10,000	16,000	39,000
Male	6,000	7,000	30,000	2,000	49,000	88,000	10,000	12,000	S
Female	8,000	7,000	34,000	70,000	23,000	S	S	S	S
Political/related scientists	2,000	5,000	11,000	S	S	S	S	S	S
Male	12,000	3,000	S	S	S	S	S	S	S
Female	2,000	8,000	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	2,000	9,000	3,000	1,000	1,000	2,000	3,000	7,000	6,000
Male	1,000	7,000	1,000	1,000	2,000	5,000	5,000	6,000	7,000
Female	2,000	7,000	4,000	3,000	4,000	3,000	4,000	21,000	S
Psychologists	1,000	3,000	3,000	5,000	3,000	4,000	3,000	8,000	13,000
Male	3,000	7,000	3,000	10,000	9,000	6,000	4,000	11,000	18,000
Female	1,000	4,000	4,000	4,000	6,000	4,000	4,000	8,000	9,000
Sociologists/anthropologists	6,000	12,000	5,000	4,000	17,000	16,000	6,000	S	S
Male	4,000	2,000	12,000	S	17,000	S	S	S	S
Female	4,000	11,000	6,000	S	22,000	S	S	S	S
Other social/related scientists	2,000	1,000	4,000	6,000	8,000	17,000	7,000	28,000	11,000
Male	8,000	2,000	11,000	14,000	15,000	26,000	9,000	14,000	S
Female	3,000	2,000	3,000	5,000	10,000	35,000	20,000	S	S
Engineers	1,000	1,000	1,000	1,000	2,000	1,000	2,000	1,000	3,000
Male	500	1,000	1,000	1,000	1,000	1,000	3,000	1,000	3,000
Female	1,000	1,000	2,000	4,000	2,000	6,000	8,000	12,000	S
Aerospace/aeronautical/astronautical engineers	3,000	3,000	2,000	6,000	3,000	4,000	6,000	4,000	2,000
Male	3,000	4,000	3,000	7,000	3,000	4,000	6,000	4,000	2,000
Female	6,000	6,000	S	S	S	S	S	S	S
Chemical engineers	2,000	1,000	1,000	4,000	4,000	4,000	7,000	14,000	6,000
Male	1,000	1,000	2,000	4,000	6,000	4,000	7,000	15,000	6,000
Female	2,000	3,000	4,000	5,000	S	S	S	S	S
Civil/architectural/sanitary engineers	2,000	500	2,000	3,000	2,000	3,000	2,000	3,000	4,000
Male	1,000	1,000	2,000	3,000	2,000	3,000	3,000	3,000	3,000
Female	3,000	1,000	3,000	7,000	2,000	10,000	S	S	S

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Electrical/computer hardware engineers	1,000	1,000	1,000	2,000	2,000	1,000	4,000	3,000	6,000
Male	1,000	1,000	1,000	3,000	2,000	1,000	4,000	3,000	6,000
Female	6,000	4,000	9,000	13,000	6,000	S	S	S	S
Industrial engineers	2,000	2,000	5,000	6,000	3,000	9,000	4,000	9,000	7,000
Male	2,000	3,000	5,000	6,000	4,000	12,000	4,000	8,000	7,000
Female	3,000	1,000	4,000	S	S	S	S	S	S
Mechanical engineers	1,000	2,000	1,000	2,000	2,000	3,000	4,000	3,000	6,000
Male	1,000	2,000	1,000	3,000	2,000	3,000	4,000	3,000	6,000
Female	2,000	5,000	3,000	4,000	8,000	S	S	S	S
Postsecondary teachers-engineering	2,000	8,000	4,000	2,000	3,000	8,000	5,000	5,000	10,000
Male	2,000	11,000	5,000	3,000	3,000	8,000	7,000	5,000	10,000
Female	13,000	12,000	2,000	12,000	S	S	S	S	S
Other engineers	2,000	1,000	2,000	2,000	5,000	4,000	2,000	5,000	6,000
Male	2,000	3,000	3,000	3,000	5,000	4,000	3,000	5,000	7,000
Female	3,000	1,000	3,000	2,000	11,000	10,000	S	S	S
S&E-related occupations	1,000	1,000	500	1,000	1,000	1,000	2,000	2,000	4,000
Male	500	1,000	2,000	3,000	1,000	3,000	3,000	2,000	4,000
Female	1,000	3,000	2,000	2,000	2,000	1,000	1,000	2,000	4,000
Health-related occupations	1,000	500	500	2,000	4,000	3,000	1,000	4,000	5,000
Male	2,000	2,000	4,000	5,000	12,000	11,000	4,000	3,000	7,000
Female	1,000	500	2,000	2,000	3,000	1,000	3,000	3,000	4,000
S&E managers	1,000	2,000	3,000	5,000	3,000	5,000	5,000	5,000	7,000
Male	2,000	4,000	4,000	2,000	3,000	6,000	10,000	4,000	5,000
Female	1,000	6,000	4,000	3,000	2,000	6,000	3,000	S	S
S&E precollege teachers	1,000	1,000	1,000	1,000	2,000	2,000	2,000	1,000	5,000
Male	1,000	1,000	2,000	2,000	3,000	4,000	1,000	2,000	9,000
Female	1,000	2,000	2,000	1,000	2,000	2,000	4,000	4,000	8,000
S&E technicians/technologists	1,000	1,000	3,000	2,000	2,000	5,000	5,000	5,000	7,000
Male	2,000	2,000	3,000	3,000	4,000	6,000	5,000	6,000	9,000
Female	1,000	1,000	4,000	4,000	6,000	11,000	7,000	11,000	11,000
Other S&E-related occupations	1,000	2,000	3,000	3,000	3,000	8,000	8,000	9,000	8,000
Male	2,000	2,000	2,000	3,000	4,000	9,000	9,000	14,000	10,000
Female	3,000	5,000	4,000	6,000	5,000	14,000	S	S	S
Non-S&E occupations	500	500	1,000	2,000	1,000	2,000	3,000	3,000	3,000
Male	1,000	1,000	2,000	1,000	2,000	3,000	3,000	2,000	1,000
Female	1,000	1,000	1,000	2,000	1,000	2,000	2,000	2,000	4,000
Art/humanities/related occupations	3,000	2,000	4,000	4,000	12,000	6,000	9,000	6,000	8,000
Male	5,000	3,000	9,000	6,000	19,000	9,000	25,000	21,000	21,000
Female	3,000	1,000	1,000	5,000	18,000	34,000	6,000	25,000	S
Management-related occupations	2,000	1,000	3,000	4,000	4,000	3,000	4,000	3,000	3,000
Male	2,000	4,000	3,000	5,000	6,000	5,000	4,000	5,000	5,000
Female	2,000	2,000	3,000	2,000	5,000	2,000	7,000	8,000	6,000
Non-S&E managers	2,000	4,000	3,000	5,000	4,000	2,000	5,000	6,000	8,000
Male	2,000	4,000	8,000	4,000	4,000	5,000	6,000	8,000	12,000
Female	2,000	6,000	4,000	5,000	5,000	6,000	9,000	7,000	21,000

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Non-S&E postsecondary teachers	1,000	5,000	2,000	4,000	6,000	5,000	7,000	10,000	16,000
Male	2,000	2,000	5,000	15,000	5,000	6,000	9,000	8,000	11,000
Female	4,000	10,000	4,000	7,000	9,000	5,000	18,000	45,000	S
Non-S&E precollege/other teachers	1,000	2,000	1,000	3,000	3,000	4,000	3,000	14,000	4,000
Male	1,000	2,000	1,000	1,000	7,000	6,000	13,000	10,000	S
Female	1,000	3,000	4,000	2,000	4,000	4,000	3,000	7,000	4,000
Sales/marketing occupations	4,000	2,000	4,000	6,000	6,000	4,000	8,000	9,000	3,000
Male	3,000	3,000	5,000	5,000	6,000	8,000	9,000	8,000	4,000
Female	1,000	3,000	2,000	3,000	3,000	3,000	8,000	6,000	6,000
Social services/related occupations	1,000	1,000	2,000	2,000	2,000	2,000	3,000	6,000	9,000
Male	500	2,000	3,000	2,000	3,000	5,000	2,000	7,000	8,000
Female	500	1,000	1,000	2,000	3,000	4,000	5,000	7,000	S
Other non-S&E occupations	500	500	2,000	2,000	2,000	4,000	3,000	2,000	4,000
Male	2,000	1,000	3,000	3,000	4,000	4,000	3,000	4,000	1,000
Female	1,000	1,000	2,000	2,000	3,000	3,000	4,000	4,000	3,000
Bachelor's degrees, all occupations	500	1,000	500	1,000	2,000	2,000	2,000	2,000	2,000
Male	500	500	500	2,000	500	2,000	2,000	3,000	4,000
Female	500	500	1,000	1,000	1,000	2,000	2,000	1,000	2,000
S&E occupations	1,000	500	1,000	1,000	2,000	2,000	2,000	3,000	2,000
Male	500	2,000	2,000	500	2,000	1,000	1,000	2,000	3,000
Female	3,000	2,000	1,000	2,000	2,000	2,000	4,000	5,000	7,000
Scientists	500	500	2,000	2,000	2,000	1,000	3,000	3,000	4,000
Male	500	1,000	1,000	1,000	3,000	2,000	2,000	5,000	3,000
Female	500	1,000	1,000	2,000	2,000	5,000	4,000	6,000	7,000
Biological/agricultural/other life scientists	2,000	2,000	3,000	2,000	4,000	1,000	6,000	5,000	6,000
Male	3,000	1,000	6,000	3,000	4,000	3,000	6,000	7,000	7,000
Female	4,000	1,000	5,000	4,000	8,000	10,000	4,000	S	S
Agricultural/food scientists	5,000	1,000	S	S	S	S	S	S	S
Male	7,000	S	S	S	S	S	S	S	S
Female	6,000	S	S	S	S	S	S	S	S
Biological/medical scientists	1,000	2,000	4,000	2,000	3,000	5,000	3,000	4,000	S
Male	4,000	3,000	9,000	3,000	2,000	S	8,000	S	S
Female	3,000	2,000	7,000	5,000	11,000	19,000	4,000	S	S
Environmental life scientists	4,000	1,000	S	S	5,000	S	2,000	S	S
Male	5,000	S	S	S	S	S	2,000	S	S
Female	11,000	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	6,000	5,000	S	S	S	S	S	S	S
Male	14,000	S	S	S	S	S	S	S	S
Female	5,000	S	S	S	S	S	S	S	S
Computer/mathematical scientists	1,000	1,000	2,000	2,000	1,000	2,000	2,000	3,000	4,000
Male	500	1,000	2,000	2,000	500	1,000	3,000	4,000	6,000
Female	2,000	2,000	2,000	3,000	5,000	4,000	2,000	6,000	9,000
Computer/information scientists	1,000	1,000	2,000	2,000	2,000	3,000	1,000	3,000	4,000
Male	500	2,000	2,000	2,000	500	2,000	2,000	4,000	7,000
Female	2,000	3,000	3,000	3,000	5,000	5,000	2,000	6,000	11,000

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Mathematical scientists	7,000	10,000	S	S	S	S	28,000	S	S
Male	16,000	14,000	S	S	S	S	S	S	S
Female	4,000	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	6,000	1,000	7,000	S	S	S	S	S	S
Male	11,000	1,000	S	S	S	S	S	S	S
Female	4,000	3,000	S	S	S	S	S	S	S
Physical/related scientists	1,000	2,000	4,000	2,000	6,000	6,000	6,000	10,000	3,000
Male	1,000	2,000	4,000	2,000	6,000	7,000	5,000	11,000	3,000
Female	2,000	3,000	3,000	4,000	9,000	7,000	9,000	S	S
Chemists, except biochemists	3,000	2,000	2,000	3,000	4,000	16,000	8,000	9,000	7,000
Male	3,000	2,000	2,000	4,000	4,000	23,000	15,000	11,000	7,000
Female	3,000	5,000	5,000	4,000	10,000	S	S	S	S
Earth/atmospheric/ocean scientists	4,000	3,000	9,000	7,000	8,000	3,000	7,000	S	S
Male	4,000	6,000	9,000	4,000	9,000	3,000	S	S	S
Female	6,000	8,000	S	S	S	S	S	S	S
Physicists/astronomers	6,000	3,000	S	S	S	S	S	S	S
Male	5,000	2,000	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	1,000	1,000	S	S	S	S	S	S	S
Male	6,000	500	S	S	S	S	S	S	S
Female	3,000	3,000	S	S	S	S	S	S	S
Other physical/related scientists	2,000	2,000	2,000	S	S	S	S	S	S
Male	2,000	2,000	S	S	S	S	S	S	S
Female	3,000	S	S	S	S	S	S	S	S
Social/related scientists	2,000	5,000	1,000	2,000	13,000	6,000	11,000	27,000	12,000
Male	5,000	3,000	4,000	S	S	S	5,000	S	S
Female	4,000	7,000	4,000	4,000	13,000	S	S	S	S
Economists	11,000	2,000	S	S	S	S	S	S	S
Male	19,000	S	S	S	S	S	S	S	S
Female	2,000	S	S	S	S	S	S	S	S
Political/related scientists	3,000	10,000	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	1,000	1,000	S	S	S	S	S	S	S
Male	6,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Psychologists	4,000	9,000	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	4,000	S	S	S	S	S	S	S	S
Sociologists/anthropologists	6,000	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Other social/related scientists	4,000	1,000	2,000	5,000	12,000	S	10,000	S	S
Male	5,000	4,000	10,000	S	S	S	S	S	S
Female	3,000	2,000	2,000	S	S	S	S	S	S
Engineers	500	500	1,000	500	1,000	2,000	500	1,000	2,000
Male	500	500	1,000	1,000	1,000	1,000	1,000	2,000	2,000
Female	1,000	2,000	2,000	3,000	3,000	6,000	6,000	S	S
Aerospace/aeronautical/astronautical engineers	2,000	3,000	5,000	4,000	3,000	4,000	11,000	8,000	4,000
Male	2,000	3,000	5,000	5,000	3,000	3,000	11,000	8,000	3,000
Female	10,000	1,000	S	S	S	S	S	S	S
Chemical engineers	2,000	2,000	3,000	7,000	2,000	5,000	5,000	15,000	S
Male	2,000	2,000	3,000	4,000	4,000	5,000	6,000	S	S
Female	2,000	3,000	4,000	S	S	S	S	S	S
Civil/architectural/sanitary engineers	1,000	1,000	2,000	3,000	2,000	3,000	2,000	3,000	6,000
Male	3,000	1,000	2,000	4,000	2,000	2,000	3,000	3,000	5,000
Female	2,000	1,000	4,000	9,000	5,000	S	S	S	S
Electrical/computer hardware engineers	500	500	3,000	2,000	3,000	3,000	5,000	4,000	7,000
Male	500	500	2,000	1,000	2,000	3,000	5,000	4,000	8,000
Female	7,000	1,000	21,000	7,000	14,000	S	S	S	S
Industrial engineers	1,000	2,000	1,000	5,000	3,000	12,000	4,000	4,000	S
Male	2,000	2,000	1,000	4,000	4,000	12,000	4,000	4,000	S
Female	4,000	3,000	4,000	S	S	S	S	S	S
Mechanical engineers	1,000	1,000	1,000	2,000	3,000	2,000	4,000	6,000	9,000
Male	500	1,000	1,000	2,000	3,000	3,000	4,000	6,000	9,000
Female	3,000	1,000	4,000	S	S	S	S	S	S
Postsecondary teachers-engineering	2,000	3,000	S	S	S	S	S	S	S
Male	2,000	3,000	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Other engineers	2,000	2,000	4,000	2,000	1,000	5,000	5,000	4,000	7,000
Male	500	2,000	4,000	2,000	2,000	5,000	5,000	4,000	7,000
Female	4,000	3,000	5,000	2,000	3,000	11,000	S	S	S
S&E-related occupations	1,000	1,000	1,000	1,000	2,000	2,000	2,000	1,000	3,000
Male	1,000	1,000	3,000	3,000	2,000	3,000	3,000	5,000	4,000
Female	500	1,000	1,000	2,000	1,000	3,000	3,000	2,000	2,000
Health-related occupations	1,000	1,000	2,000	1,000	2,000	2,000	3,000	2,000	3,000
Male	3,000	2,000	4,000	5,000	4,000	8,000	7,000	5,000	5,000
Female	500	1,000	2,000	3,000	1,000	3,000	2,000	3,000	5,000
S&E managers	3,000	1,000	4,000	9,000	7,000	3,000	6,000	7,000	12,000
Male	2,000	2,000	9,000	5,000	5,000	7,000	8,000	6,000	8,000
Female	3,000	1,000	3,000	8,000	7,000	1,000	S	S	S
S&E precollege teachers	1,000	1,000	500	2,000	4,000	2,000	2,000	3,000	5,000
Male	1,000	1,000	1,000	3,000	5,000	3,000	5,000	4,000	S
Female	1,000	1,000	1,000	2,000	5,000	3,000	4,000	5,000	9,000
S&E technicians/technologists	2,000	2,000	2,000	2,000	2,000	5,000	5,000	6,000	9,000
Male	2,000	1,000	3,000	3,000	4,000	6,000	5,000	6,000	11,000
Female	2,000	2,000	2,000	6,000	3,000	14,000	7,000	6,000	12,000

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Other S&E-related occupations	3,000	3,000	3,000	3,000	4,000	16,000	10,000	13,000	7,000
Male	3,000	3,000	4,000	5,000	9,000	3,000	15,000	17,000	8,000
Female	4,000	11,000	5,000	S	S	S	S	S	S
Non-S&E occupations	1,000	500	1,000	2,000	1,000	2,000	2,000	5,000	3,000
Male	2,000	2,000	1,000	3,000	3,000	4,000	2,000	3,000	4,000
Female	1,000	1,000	2,000	2,000	2,000	2,000	2,000	2,000	5,000
Art/humanities/related occupations	5,000	2,000	8,000	3,000	11,000	S	9,000	10,000	S
Male	5,000	3,000	15,000	S	S	S	S	S	S
Female	4,000	3,000	S	6,000	S	S	7,000	S	S
Management-related occupations	1,000	2,000	3,000	2,000	2,000	5,000	3,000	3,000	2,000
Male	2,000	5,000	3,000	6,000	5,000	5,000	10,000	7,000	5,000
Female	1,000	3,000	4,000	3,000	7,000	6,000	8,000	11,000	S
Non-S&E managers	3,000	4,000	3,000	10,000	3,000	7,000	6,000	2,000	5,000
Male	2,000	9,000	4,000	12,000	2,000	3,000	6,000	7,000	13,000
Female	4,000	S	4,000	17,000	6,000	5,000	19,000	S	S
Non-S&E postsecondary teachers	5,000	3,000	S	S	S	S	S	S	S
Male	6,000	6,000	S	S	S	S	S	S	S
Female	11,000	2,000	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	2,000	2,000	2,000	6,000	3,000	7,000	5,000	12,000	3,000
Male	4,000	500	5,000	S	S	S	S	S	S
Female	1,000	2,000	3,000	6,000	3,000	6,000	6,000	12,000	3,000
Sales/marketing occupations	1,000	1,000	2,000	2,000	6,000	5,000	7,000	6,000	3,000
Male	1,000	3,000	6,000	9,000	5,000	11,000	9,000	6,000	3,000
Female	1,000	3,000	2,000	5,000	6,000	4,000	7,000	8,000	7,000
Social services/related occupations	500	1,000	2,000	2,000	4,000	2,000	4,000	8,000	S
Male	1,000	2,000	2,000	8,000	S	S	10,000	S	S
Female	1,000	2,000	500	2,000	3,000	2,000	3,000	S	S
Other non-S&E occupations	500	3,000	2,000	2,000	2,000	2,000	3,000	2,000	2,000
Male	1,000	2,000	2,000	2,000	3,000	4,000	3,000	5,000	5,000
Female	1,000	4,000	1,000	2,000	2,000	5,000	1,000	4,000	4,000
Master's degrees, all occupations	500	2,000	500	2,000	2,000	1,000	2,000	1,000	5,000
Male	1,000	1,000	2,000	500	3,000	3,000	2,000	3,000	7,000
Female	500	2,000	1,000	2,000	1,000	2,000	2,000	4,000	4,000
S&E occupations	500	2,000	1,000	2,000	2,000	1,000	2,000	5,000	5,000
Male	1,000	1,000	2,000	2,000	2,000	2,000	2,000	2,000	7,000
Female	1,000	2,000	3,000	3,000	4,000	5,000	6,000	7,000	10,000
Scientists	500	2,000	3,000	3,000	4,000	4,000	2,000	5,000	12,000
Male	2,000	2,000	3,000	3,000	4,000	3,000	4,000	5,000	17,000
Female	2,000	1,000	2,000	2,000	4,000	4,000	7,000	8,000	10,000
Biological/agricultural/other life scientists	1,000	2,000	4,000	9,000	2,000	6,000	9,000	7,000	S
Male	2,000	2,000	2,000	9,000	2,000	5,000	13,000	S	S
Female	2,000	2,000	6,000	2,000	7,000	14,000	S	S	S
Agricultural/food scientists	6,000	5,000	S	S	S	S	S	S	S
Male	6,000	8,000	S	S	S	S	S	S	S
Female	7,000	S	S	S	S	S	S	S	S

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Biological/medical scientists	2,000	3,000	5,000	9,000	7,000	8,000	10,000	S	S
Male	3,000	19,000	5,000	10,000	15,000	S	S	S	S
Female	3,000	2,000	7,000	12,000	6,000	18,000	S	S	S
Environmental life scientists	2,000	7,000	S	S	S	S	S	S	S
Male	3,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	2,000	8,000	S	S	S	S	S	S	S
Male	4,000	S	S	S	S	S	S	S	S
Female	3,000	11,000	S	S	S	S	S	S	S
Computer/mathematical scientists	1,000	3,000	2,000	1,000	4,000	2,000	5,000	9,000	19,000
Male	500	2,000	2,000	4,000	4,000	2,000	5,000	13,000	27,000
Female	2,000	3,000	3,000	2,000	7,000	5,000	15,000	18,000	S
Computer/information scientists	2,000	1,000	2,000	2,000	4,000	2,000	5,000	12,000	19,000
Male	2,000	2,000	1,000	4,000	3,000	3,000	6,000	15,000	30,000
Female	2,000	1,000	3,000	2,000	6,000	8,000	13,000	20,000	S
Mathematical scientists	3,000	5,000	6,000	18,000	S	S	S	S	S
Male	4,000	2,000	S	S	S	S	S	S	S
Female	5,000	1,000	5,000	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	2,000	8,000	2,000	5,000	8,000	8,000	27,000	12,000	S
Male	5,000	10,000	4,000	S	S	S	S	18,000	S
Female	2,000	20,000	3,000	S	S	S	S	S	S
Physical/related scientists	4,000	2,000	5,000	3,000	10,000	5,000	7,000	8,000	16,000
Male	3,000	3,000	5,000	5,000	14,000	5,000	10,000	7,000	21,000
Female	4,000	7,000	8,000	7,000	S	S	S	S	S
Chemists, except biochemists	1,000	8,000	3,000	3,000	S	S	S	S	S
Male	9,000	5,000	S	S	S	S	S	S	S
Female	5,000	22,000	4,000	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	6,000	2,000	S	5,000	13,000	4,000	S	S	S
Male	4,000	3,000	S	S	10,000	4,000	S	S	S
Female	7,000	6,000	S	S	S	S	S	S	S
Physicists/astronomers	10,000	31,000	S	S	S	S	S	S	S
Male	19,000	42,000	S	S	S	S	S	S	S
Female	14,000	1,000	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	10,000	3,000	S	S	S	S	S	S	S
Male	10,000	4,000	S	S	S	S	S	S	S
Female	7,000	4,000	S	S	S	S	S	S	S
Other physical/related scientists	7,000	3,000	S	S	S	S	S	S	S
Male	9,000	S	S	S	S	S	S	S	S
Female	9,000	S	S	S	S	S	S	S	S
Social/related scientists	3,000	4,000	5,000	6,000	4,000	4,000	4,000	9,000	17,000
Male	3,000	1,000	2,000	15,000	12,000	11,000	4,000	19,000	18,000
Female	2,000	2,000	3,000	4,000	10,000	6,000	10,000	10,000	S
Economists	7,000	14,000	S	S	S	S	S	S	S

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Male	6,000	S	S	S	S	S	S	S	S
Female	8,000	34,000	S	S	S	S	S	S	S
Political/related scientists	10,000	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	5,000	1,000	8,000	S	S	S	S	S	S
Male	10,000	1,000	S	S	S	S	S	S	S
Female	6,000	2,000	S	S	S	S	S	S	S
Psychologists	1,000	3,000	6,000	4,000	5,000	6,000	7,000	8,000	S
Male	4,000	3,000	S	S	S	6,000	2,000	S	S
Female	1,000	4,000	7,000	4,000	11,000	6,000	4,000	S	S
Sociologists/anthropologists	10,000	2,000	S	S	S	S	S	S	S
Male	6,000	S	S	S	S	S	S	S	S
Female	15,000	S	S	S	S	S	S	S	S
Other social/related scientists	7,000	6,000	9,000	12,000	14,000	S	S	S	S
Male	7,000	18,000	S	S	S	S	S	S	S
Female	4,000	5,000	S	S	S	S	S	S	S
Engineers	1,000	2,000	3,000	3,000	3,000	3,000	3,000	1,000	12,000
Male	500	2,000	2,000	2,000	4,000	4,000	2,000	1,000	11,000
Female	2,000	3,000	3,000	5,000	8,000	7,000	S	S	S
Aerospace/aeronautical/astronautical engineers	4,000	3,000	8,000	10,000	4,000	20,000	6,000	S	S
Male	5,000	4,000	2,000	8,000	4,000	20,000	S	S	S
Female	12,000	1,000	S	S	S	S	S	S	S
Chemical engineers	3,000	1,000	5,000	12,000	S	S	S	S	S
Male	3,000	4,000	S	S	S	S	S	S	S
Female	2,000	4,000	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	2,000	3,000	2,000	2,000	6,000	9,000	6,000	10,000	6,000
Male	2,000	1,000	3,000	2,000	7,000	10,000	6,000	10,000	6,000
Female	5,000	3,000	S	S	S	S	S	S	S
Electrical/computer hardware engineers	1,000	3,000	3,000	4,000	6,000	6,000	6,000	10,000	15,000
Male	1,000	7,000	3,000	3,000	7,000	6,000	7,000	10,000	15,000
Female	6,000	3,000	6,000	S	S	S	S	S	S
Industrial engineers	3,000	3,000	5,000	S	S	S	S	S	S
Male	3,000	6,000	6,000	S	S	S	S	S	S
Female	3,000	1,000	S	S	S	S	S	S	S
Mechanical engineers	3,000	4,000	3,000	4,000	3,000	13,000	5,000	6,000	S
Male	2,000	4,000	3,000	4,000	4,000	16,000	4,000	6,000	S
Female	4,000	8,000	S	S	S	S	S	S	S
Postsecondary teachers-engineering	5,000	12,000	S	S	S	S	S	S	S
Male	7,000	18,000	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Other engineers	2,000	3,000	4,000	5,000	4,000	5,000	7,000	4,000	26,000
Male	3,000	2,000	5,000	3,000	5,000	6,000	6,000	4,000	S
Female	3,000	4,000	7,000	S	S	S	S	S	S

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
S&E-related occupations	1,000	1,000	2,000	2,000	2,000	3,000	3,000	2,000	6,000
Male	500	4,000	2,000	3,000	4,000	4,000	5,000	7,000	8,000
Female	500	1,000	3,000	3,000	2,000	2,000	4,000	3,000	8,000
Health-related occupations	3,000	500	3,000	3,000	3,000	3,000	5,000	5,000	9,000
Male	4,000	2,000	5,000	9,000	12,000	8,000	11,000	S	S
Female	500	3,000	3,000	4,000	2,000	3,000	4,000	3,000	S
S&E managers	2,000	4,000	3,000	5,000	5,000	11,000	9,000	6,000	S
Male	2,000	4,000	6,000	3,000	5,000	10,000	10,000	6,000	S
Female	2,000	5,000	8,000	4,000	3,000	S	S	S	S
S&E precollege teachers	1,000	500	2,000	2,000	1,000	2,000	2,000	5,000	12,000
Male	1,000	2,000	3,000	2,000	1,000	4,000	2,000	4,000	14,000
Female	1,000	1,000	3,000	4,000	2,000	2,000	4,000	10,000	S
S&E technicians/technologists	2,000	4,000	3,000	8,000	4,000	13,000	14,000	14,000	S
Male	3,000	7,000	4,000	4,000	14,000	17,000	21,000	S	S
Female	4,000	4,000	14,000	8,000	S	S	S	S	S
Other S&E-related occupations	3,000	3,000	5,000	10,000	5,000	16,000	S	S	S
Male	4,000	2,000	3,000	S	S	S	S	S	S
Female	6,000	S	S	S	S	S	S	S	S
Non-S&E occupations	1,000	1,000	2,000	3,000	3,000	4,000	3,000	4,000	3,000
Male	1,000	4,000	5,000	2,000	5,000	4,000	3,000	6,000	6,000
Female	1,000	1,000	2,000	2,000	4,000	2,000	3,000	6,000	11,000
Art/humanities/related occupations	2,000	16,000	3,000	31,000	S	S	S	S	S
Male	7,000	14,000	S	S	S	S	S	S	S
Female	2,000	9,000	S	S	S	S	S	S	S
Management-related occupations	2,000	4,000	1,000	4,000	7,000	6,000	7,000	8,000	7,000
Male	5,000	9,000	4,000	4,000	8,000	5,000	9,000	7,000	7,000
Female	2,000	6,000	2,000	6,000	18,000	5,000	6,000	S	S
Non-S&E managers	3,000	5,000	7,000	3,000	7,000	5,000	8,000	10,000	16,000
Male	3,000	6,000	5,000	11,000	9,000	10,000	18,000	13,000	19,000
Female	2,000	5,000	1,000	7,000	18,000	6,000	14,000	S	S
Non-S&E postsecondary teachers	2,000	7,000	4,000	6,000	3,000	7,000	10,000	S	S
Male	1,000	2,000	S	S	S	S	3,000	S	S
Female	2,000	12,000	5,000	5,000	S	10,000	S	S	S
Non-S&E precollege/other teachers	1,000	2,000	1,000	3,000	2,000	2,000	2,000	16,000	S
Male	5,000	3,000	8,000	3,000	S	S	10,000	S	S
Female	1,000	2,000	1,000	3,000	3,000	3,000	2,000	16,000	S
Sales/marketing occupations	5,000	7,000	14,000	7,000	14,000	11,000	9,000	4,000	12,000
Male	4,000	10,000	5,000	4,000	22,000	12,000	15,000	4,000	11,000
Female	6,000	5,000	5,000	8,000	13,000	S	S	S	S
Social services/related occupations	1,000	1,000	1,000	3,000	3,000	3,000	4,000	5,000	S
Male	2,000	1,000	2,000	5,000	3,000	5,000	4,000	S	S
Female	500	1,000	1,000	4,000	2,000	4,000	4,000	5,000	S
Other non-S&E occupations	2,000	3,000	2,000	6,000	4,000	3,000	4,000	7,000	3,000
Male	4,000	6,000	6,000	6,000	11,000	17,000	6,000	12,000	11,000
Female	1,000	3,000	5,000	4,000	5,000	4,000	6,000	15,000	S

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Doctorate degrees, all occupations	1,000	1,000	2,000	1,000	3,000	2,000	1,000	4,000	2,000
Male	500	2,000	1,000	2,000	2,000	1,000	3,000	4,000	1,000
Female	500	2,000	3,000	1,000	3,000	3,000	4,000	11,000	8,000
S&E occupations	500	1,000	2,000	500	1,000	2,000	2,000	2,000	5,000
Male	1,000	2,000	2,000	500	2,000	3,000	2,000	2,000	5,000
Female	2,000	2,000	2,000	2,000	3,000	2,000	4,000	2,000	6,000
Scientists	1,000	2,000	1,000	2,000	1,000	1,000	1,000	2,000	5,000
Male	2,000	2,000	2,000	1,000	2,000	1,000	1,000	2,000	4,000
Female	1,000	2,000	1,000	2,000	3,000	3,000	4,000	3,000	7,000
Biological/agricultural/other life scientists	1,000	1,000	2,000	1,000	4,000	3,000	3,000	4,000	1,000
Male	500	2,000	1,000	2,000	3,000	2,000	3,000	3,000	1,000
Female	2,000	2,000	2,000	3,000	5,000	9,000	5,000	9,000	S
Agricultural/food scientists	1,000	4,000	4,000	4,000	3,000	9,000	8,000	7,000	S
Male	2,000	4,000	5,000	5,000	4,000	4,000	7,000	7,000	S
Female	4,000	7,000	S	S	S	S	S	S	S
Biological/medical scientists	1,000	1,000	4,000	4,000	3,000	5,000	3,000	4,000	3,000
Male	3,000	1,000	5,000	5,000	5,000	7,000	4,000	6,000	2,000
Female	3,000	3,000	2,000	3,000	5,000	15,000	12,000	18,000	S
Environmental life scientists	7,000	S	S	S	S	S	S	S	S
Male	9,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	2,000	2,000	1,000	2,000	6,000	2,000	3,000	4,000	4,000
Male	1,000	2,000	1,000	5,000	7,000	3,000	4,000	5,000	4,000
Female	3,000	4,000	1,000	5,000	11,000	4,000	3,000	7,000	S
Computer/mathematical scientists	1,000	5,000	2,000	1,000	5,000	3,000	3,000	6,000	6,000
Male	1,000	3,000	1,000	4,000	6,000	4,000	4,000	6,000	9,000
Female	5,000	10,000	4,000	5,000	15,000	8,000	9,000	10,000	S
Computer/information scientists	1,000	4,000	2,000	6,000	5,000	6,000	8,000	9,000	24,000
Male	3,000	6,000	4,000	5,000	4,000	11,000	11,000	9,000	54,000
Female	2,000	6,000	8,000	9,000	S	5,000	S	S	S
Mathematical scientists	3,000	1,000	3,000	8,000	4,000	6,000	8,000	4,000	S
Male	4,000	1,000	5,000	9,000	5,000	9,000	7,000	4,000	S
Female	5,000	4,000	4,000	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematical sciences	2,000	6,000	2,000	5,000	6,000	9,000	5,000	4,000	10,000
Male	2,000	5,000	2,000	6,000	7,000	7,000	7,000	4,000	10,000
Female	4,000	9,000	1,000	3,000	7,000	5,000	S	S	S
Physical/related scientists	2,000	2,000	2,000	3,000	2,000	2,000	4,000	2,000	6,000
Male	3,000	2,000	3,000	2,000	3,000	4,000	3,000	3,000	7,000
Female	3,000	5,000	4,000	5,000	5,000	9,000	6,000	10,000	S
Chemists, except biochemists	1,000	4,000	1,000	4,000	5,000	4,000	2,000	5,000	4,000
Male	1,000	4,000	1,000	4,000	4,000	4,000	4,000	4,000	5,000
Female	4,000	3,000	2,000	9,000	8,000	S	S	S	S
Earth/atmospheric/ocean scientists	1,000	3,000	5,000	6,000	5,000	16,000	2,000	4,000	16,000
Male	4,000	4,000	8,000	5,000	6,000	14,000	3,000	4,000	16,000

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Female	3,000	6,000	2,000	S	S	S	S	S	S
Physicists/astronomers	3,000	4,000	3,000	8,000	1,000	3,000	6,000	3,000	4,000
Male	3,000	2,000	4,000	11,000	1,000	4,000	6,000	6,000	4,000
Female	10,000	9,000	16,000	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	1,000	1,000	1,000	2,000	500	2,000	5,000	3,000	7,000
Male	500	3,000	2,000	2,000	500	3,000	5,000	4,000	7,000
Female	1,000	2,000	1,000	3,000	8,000	6,000	S	S	S
Other physical/related scientists	3,000	7,000	17,000	19,000	S	S	S	S	S
Male	1,000	9,000	12,000	S	S	S	S	S	S
Female	11,000	S	S	S	S	S	S	S	S
Social/related scientists	1,000	500	500	2,000	2,000	2,000	5,000	4,000	6,000
Male	1,000	3,000	1,000	2,000	2,000	4,000	5,000	2,000	9,000
Female	2,000	1,000	1,000	500	3,000	4,000	6,000	4,000	16,000
Economists	2,000	7,000	5,000	7,000	9,000	6,000	38,000	18,000	S
Male	6,000	13,000	7,000	9,000	22,000	6,000	39,000	18,000	S
Female	6,000	4,000	27,000	S	S	S	S	S	S
Political/related scientists	5,000	S	S	S	S	S	S	S	S
Male	6,000	S	S	S	S	S	S	S	S
Female	21,000	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	2,000	1,000	1,000	3,000	2,000	4,000	3,000	4,000	8,000
Male	2,000	2,000	2,000	4,000	2,000	3,000	3,000	3,000	8,000
Female	1,000	1,000	2,000	3,000	3,000	6,000	4,000	1,000	S
Psychologists	1,000	2,000	500	3,000	4,000	2,000	7,000	4,000	9,000
Male	2,000	1,000	2,000	5,000	6,000	2,000	10,000	6,000	15,000
Female	3,000	500	3,000	500	5,000	4,000	5,000	19,000	S
Sociologists/anthropologists	1,000	9,000	4,000	4,000	4,000	8,000	8,000	S	S
Male	5,000	8,000	S	S	5,000	S	S	S	S
Female	500	1,000	4,000	S	S	S	S	S	S
Other social/related scientists	500	5,000	5,000	500	S	S	S	S	S
Male	1,000	5,000	7,000	S	S	S	S	S	S
Female	3,000	4,000	2,000	S	S	S	S	S	S
Engineers	2,000	3,000	1,000	1,000	3,000	1,000	3,000	6,000	8,000
Male	1,000	3,000	1,000	1,000	2,000	1,000	4,000	6,000	9,000
Female	1,000	5,000	1,000	5,000	8,000	S	S	S	S
Aerospace/aeronautical/astronautical engineers	7,000	5,000	4,000	4,000	6,000	S	S	S	S
Male	7,000	4,000	4,000	4,000	7,000	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Chemical engineers	3,000	5,000	3,000	1,000	2,000	12,000	4,000	41,000	S
Male	3,000	7,000	3,000	2,000	2,000	12,000	3,000	41,000	S
Female	3,000	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	2,000	5,000	2,000	3,000	5,000	S	18,000	S	S
Male	1,000	6,000	1,000	3,000	9,000	S	18,000	S	S
Female	S	S	S	S	S	S	S	S	S

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Electrical/computer hardware engineers	1,000	3,000	4,000	4,000	4,000	14,000	11,000	4,000	32,000
Male	3,000	3,000	6,000	3,000	5,000	14,000	11,000	5,000	32,000
Female	7,000	4,000	10,000	S	S	S	S	S	S
Industrial engineers	30,000	S	2,000	S	S	S	S	S	S
Male	31,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Mechanical engineers	2,000	3,000	2,000	1,000	8,000	5,000	10,000	19,000	S
Male	1,000	3,000	2,000	1,000	10,000	6,000	11,000	19,000	S
Female	8,000	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	1,000	3,000	3,000	3,000	2,000	6,000	3,000	6,000	8,000
Male	2,000	4,000	3,000	3,000	2,000	6,000	3,000	6,000	8,000
Female	3,000	8,000	4,000	16,000	S	S	S	S	S
Other engineers	1,000	3,000	3,000	2,000	8,000	2,000	3,000	14,000	6,000
Male	500	3,000	3,000	4,000	8,000	3,000	3,000	15,000	7,000
Female	3,000	29,000	12,000	3,000	S	S	S	S	S
S&E-related occupations	4,000	2,000	6,000	6,000	9,000	7,000	4,000	10,000	5,000
Male	5,000	9,000	8,000	7,000	5,000	3,000	6,000	9,000	9,000
Female	5,000	500	3,000	5,000	3,000	24,000	13,000	19,000	S
Health-related occupations	3,000	1,000	1,000	4,000	11,000	15,000	6,000	9,000	6,000
Male	8,000	6,000	9,000	14,000	8,000	8,000	8,000	7,000	9,000
Female	5,000	500	1,000	6,000	1,000	40,000	28,000	33,000	S
S&E managers	2,000	3,000	3,000	9,000	8,000	4,000	4,000	14,000	20,000
Male	4,000	5,000	4,000	6,000	3,000	3,000	3,000	16,000	16,000
Female	3,000	6,000	5,000	5,000	1,000	16,000	S	S	S
S&E precollege teachers	6,000	9,000	1,000	5,000	5,000	12,000	S	S	S
Male	2,000	S	7,000	S	4,000	S	S	S	S
Female	2,000	S	S	S	S	S	S	S	S
S&E technicians/technologists	7,000	18,000	11,000	36,000	15,000	12,000	S	S	S
Male	6,000	36,000	15,000	38,000	S	S	S	S	S
Female	7,000	S	S	S	S	S	S	S	S
Other S&E-related occupations	1,000	S	S	S	S	S	S	S	S
Male	S	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S
Non-S&E occupations	4,000	9,000	5,000	6,000	5,000	9,000	11,000	20,000	16,000
Male	3,000	11,000	10,000	9,000	4,000	12,000	12,000	23,000	17,000
Female	2,000	3,000	6,000	3,000	8,000	5,000	20,000	5,000	34,000
Art/humanities/related occupations	13,000	19,000	24,000	19,000	11,000	32,000	19,000	39,000	33,000
Male	20,000	S	S	S	S	S	S	43,000	41,000
Female	13,000	28,000	25,000	21,000	S	S	S	S	S
Management-related occupations	3,000	3,000	16,000	26,000	1,000	6,000	10,000	56,000	55,000
Male	4,000	1,000	8,000	36,000	1,000	8,000	13,000	63,000	56,000
Female	7,000	6,000	24,000	13,000	9,000	3,000	15,000	S	S
Non-S&E managers	7,000	4,000	14,000	7,000	11,000	10,000	11,000	13,000	10,000
Male	5,000	5,000	14,000	13,000	12,000	11,000	9,000	11,000	10,000
Female	8,000	25,000	12,000	11,000	21,000	37,000	48,000	45,000	S

TABLE A-28. Standard errors for median annual salaries of employed U.S. scientists and engineers, by level of highest degree, occupation, sex, and years since highest degree: 2003
(Dollars)

Level of highest degree, occupation, and sex	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Non-S&E postsecondary teachers	3,000	2,000	6,000	3,000	5,000	6,000	9,000	8,000	18,000
Male	1,000	2,000	4,000	9,000	8,000	10,000	9,000	6,000	20,000
Female	4,000	2,000	3,000	2,000	4,000	4,000	S	S	S
Non-S&E precollege/other teachers	11,000	S	9,000	10,000	14,000	S	S	S	S
Male	15,000	S	S	S	S	S	S	S	S
Female	15,000	S	S	S	S	S	S	S	S
Sales/marketing occupations	23,000	500	7,000	5,000	45,000	15,000	23,000	73,000	500
Male	32,000	500	20,000	11,000	1,000	23,000	20,000	63,000	500
Female	2,000	S	46,000	S	S	S	S	S	S
Social services/related occupations	8,000	6,000	14,000	13,000	8,000	3,000	8,000	S	S
Male	10,000	1,000	14,000	19,000	S	S	S	S	S
Female	8,000	19,000	S	S	S	S	S	S	S
Other non-S&E occupations	4,000	17,000	32,000	9,000	23,000	2,000	25,000	20,000	15,000
Male	6,000	13,000	11,000	22,000	9,000	8,000	24,000	21,000	15,000
Female	8,000	19,000	34,000	4,000	49,000	2,000	S	S	S

S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
All degrees and occupations[b]	1,000	500	1,000	500	1,000	1,000	1,000	1,000	2,000
American Indian/Alaska Native	3,000	1,000	9,000	7,000	6,000	14,000	24,000	S	S
Asian	500	1,000	3,000	2,000	3,000	2,000	3,000	2,000	4,000
Black	500	500	2,000	3,000	2,000	3,000	3,000	5,000	6,000
Hispanic	1,000	1,000	1,000	2,000	4,000	5,000	3,000	6,000	8,000
White	1,000	500	1,000	500	2,000	2,000	1,000	2,000	3,000
Other	2,000	4,000	5,000	6,000	7,000	4,000	10,000	7,000	5,000
S&E occupations	1,000	500	1,000	500	500	1,000	500	2,000	2,000
American Indian/Alaska Native	4,000	2,000	3,000	S	12,000	S	S	S	S
Asian	500	1,000	2,000	1,000	1,000	1,000	2,000	4,000	3,000
Black	2,000	2,000	2,000	1,000	3,000	6,000	6,000	9,000	5,000
Hispanic	1,000	1,000	2,000	4,000	4,000	5,000	7,000	6,000	5,000
White	1,000	1,000	1,000	500	500	2,000	1,000	2,000	3,000
Other	4,000	3,000	5,000	6,000	9,000	15,000	13,000	15,000	13,000
Scientists	1,000	500	500	1,000	2,000	2,000	500	4,000	3,000
American Indian/Alaska Native	5,000	5,000	3,000	S	S	S	S	S	S
Asian	1,000	500	500	1,000	3,000	4,000	2,000	5,000	11,000
Black	1,000	5,000	3,000	2,000	3,000	7,000	4,000	10,000	S
Hispanic	2,000	2,000	4,000	4,000	2,000	11,000	10,000	12,000	4,000
White	1,000	1,000	2,000	2,000	2,000	2,000	1,000	4,000	2,000
Other	4,000	1,000	5,000	8,000	17,000	17,000	13,000	17,000	S
Biological/agricultural/other life scientists	2,000	1,000	2,000	3,000	3,000	5,000	4,000	5,000	10,000
American Indian/Alaska Native	4,000	S	S	S	S	S	S	S	S
Asian	2,000	1,000	5,000	6,000	6,000	8,000	7,000	5,000	S
Black	4,000	9,000	10,000	7,000	5,000	S	29,000	S	S
Hispanic	2,000	6,000	6,000	18,000	8,000	15,000	S	S	S
White	2,000	1,000	1,000	3,000	4,000	6,000	3,000	7,000	12,000
Other	8,000	7,000	18,000	9,000	S	S	S	S	S
Agricultural/food scientists	2,000	3,000	4,000	3,000	6,000	11,000	12,000	13,000	5,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	19,000	S	S	S	S	S	S	S	S
Black	4,000	S	S	S	S	S	S	S	S
Hispanic	16,000	S	S	S	S	S	S	S	S
White	2,000	2,000	3,000	3,000	7,000	14,000	18,000	16,000	S
Other	S	S	S	S	S	S	S	S	S
Biological/medical scientists	2,000	3,000	1,000	2,000	5,000	7,000	5,000	7,000	5,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	1,000	4,000	8,000	7,000	11,000	6,000	12,000	S
Black	2,000	8,000	20,000	S	S	S	S	S	S
Hispanic	3,000	3,000	7,000	13,000	S	S	S	S	S
White	1,000	1,000	2,000	2,000	5,000	7,000	8,000	6,000	16,000
Other	4,000	6,000	21,000	S	S	S	S	S	S
Environmental life scientists	4,000	1,000	3,000	8,000	3,000	13,000	2,000	10,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	5,000	1,000	3,000	9,000	6,000	9,000	2,000	10,000	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	3,000	7,000	4,000	3,000	5,000	2,000	7,000	3,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Asian	11,000	6,000	17,000	3,000	S	S	S	S	S
Black	7,000	7,000	S	S	S	S	S	S	S
Hispanic	1,000	9,000	2,000	5,000	S	S	S	S	S
White	1,000	8,000	5,000	4,000	4,000	2,000	7,000	3,000	8,000
Other	11,000	S	S	S	S	S	S	S	S
Computer/mathematical scientists	1,000	1,000	2,000	2,000	2,000	2,000	2,000	4,000	3,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S	S
Asian	1,000	2,000	3,000	1,000	2,000	4,000	8,000	4,000	31,000
Black	2,000	3,000	6,000	2,000	3,000	6,000	7,000	8,000	S
Hispanic	3,000	6,000	4,000	5,000	11,000	23,000	11,000	S	S
White	500	1,000	1,000	500	3,000	2,000	2,000	4,000	4,000
Other	2,000	10,000	3,000	8,000	7,000	14,000	S	S	S
Computer/information scientists	500	2,000	1,000	2,000	2,000	2,000	2,000	4,000	4,000
American Indian/Alaska Native	3,000	S	S	S	S	S	S	S	S
Asian	2,000	3,000	3,000	2,000	2,000	4,000	8,000	3,000	S
Black	2,000	3,000	6,000	2,000	3,000	6,000	6,000	S	S
Hispanic	2,000	7,000	4,000	5,000	11,000	24,000	8,000	S	S
White	500	2,000	2,000	1,000	3,000	1,000	1,000	4,000	4,000
Other	3,000	7,000	3,000	8,000	6,000	14,000	S	S	S
Mathematical scientists	6,000	3,000	5,000	6,000	8,000	7,000	19,000	25,000	22,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	6,000	8,000	12,000	S	S	S	S	S
Black	1,000	500	S	S	S	S	S	S	S
Hispanic	18,000	35,000	S	S	S	S	S	S	S
White	5,000	5,000	5,000	6,000	9,000	8,000	13,000	31,000	25,000
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematics/science	1,000	4,000	2,000	7,000	8,000	10,000	9,000	7,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	8,000	6,000	3,000	32,000	33,000	S	S	S	S
Black	1,000	500	3,000	S	S	S	S	S	S
Hispanic	10,000	16,000	S	S	S	S	S	S	S
White	3,000	3,000	3,000	8,000	7,000	10,000	10,000	6,000	8,000
Other	S	S	S	S	S	S	S	S	S
Physical/related scientists	2,000	1,000	2,000	3,000	3,000	6,000	3,000	4,000	5,000
American Indian/Alaska Native	12,000	S	S	S	S	S	S	S	S
Asian	4,000	5,000	4,000	4,000	6,000	4,000	13,000	3,000	6,000
Black	3,000	13,000	5,000	6,000	8,000	15,000	S	S	S
Hispanic	3,000	4,000	11,000	2,000	29,000	S	17,000	S	S
White	2,000	3,000	1,000	4,000	2,000	7,000	5,000	5,000	7,000
Other	6,000	1,000	S	S	S	S	S	S	S
Chemists, except biochemists	1,000	4,000	3,000	3,000	4,000	9,000	8,000	2,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	3,000	7,000	4,000	8,000	5,000	S	S	S
Black	4,000	20,000	S	S	S	S	S	S	S
Hispanic	4,000	4,000	S	S	S	S	S	S	S
White	4,000	2,000	3,000	4,000	2,000	5,000	4,000	6,000	5,000
Other	5,000	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	3,000	1,000	5,000	8,000	6,000	8,000	11,000	25,000	19,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	11,000	14,000	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	S	S	S	S	S	S	S	S	S
Hispanic	7,000	2,000	S	S	S	S	S	S	S
White	3,000	1,000	5,000	8,000	6,000	8,000	12,000	25,000	30,000
Other	11,000	S	S	S	S	S	S	S	S
Physicists/astronomers	6,000	5,000	4,000	4,000	2,000	2,000	6,000	26,000	16,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	9,000	9,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	15,000	S	S	S	S	S	S	S	S
White	3,000	4,000	7,000	5,000	10,000	3,000	5,000	27,000	13,000
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	2,000	500	4,000	4,000	3,000	4,000	6,000	6,000	13,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	12,000	6,000	S	S	S	S	S	S	S
Black	11,000	3,000	S	S	S	S	S	S	S
Hispanic	30,000	4,000	S	6,000	S	S	S	S	S
White	2,000	3,000	4,000	5,000	4,000	5,000	6,000	5,000	16,000
Other	11,000	S	S	S	S	S	S	S	S
Other physical/related scientists	5,000	2,000	7,000	3,000	5,000	20,000	13,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	9,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	5,000	1,000	7,000	4,000	5,000	17,000	14,000	S	S
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	500	2,000	2,000	3,000	5,000	3,000	4,000	7,000	7,000
American Indian/Alaska Native	3,000	S	S	S	S	S	S	S	S
Asian	9,000	19,000	9,000	9,000	6,000	21,000	3,000	S	S
Black	4,000	3,000	6,000	15,000	7,000	27,000	7,000	S	S
Hispanic	2,000	3,000	5,000	7,000	11,000	31,000	S	S	S
White	1,000	3,000	3,000	4,000	6,000	3,000	4,000	9,000	10,000
Other	8,000	1,000	6,000	S	S	S	S	S	S
Economists	5,000	15,000	16,000	3,000	19,000	65,000	10,000	16,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	16,000	S	S	S	S	S	S	S	S
Black	14,000	S	S	S	S	S	S	S	S
Hispanic	30,000	S	S	S	S	S	S	S	S
White	5,000	13,000	11,000	5,000	23,000	68,000	9,000	24,000	S
Other	S	S	S	S	S	S	S	S	S
Political/related scientists	2,000	5,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	5,000	5,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	2,000	9,000	3,000	1,000	1,000	2,000	3,000	7,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	8,000	25,000	7,000	10,000	2,000	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	3,000	31,000	4,000	4,000	13,000	14,000	19,000	S	S
Hispanic	1,000	26,000	5,000	3,000	S	S	S	S	S
White	1,000	17,000	3,000	1,000	4,000	4,000	3,000	9,000	8,000
Other	19,000	S	S	S	S	S	S	S	S
Psychologists	1,000	3,000	3,000	5,000	3,000	4,000	3,000	8,000	13,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	8,000	23,000	S	S	S	S	S	S	S
Black	3,000	17,000	5,000	S	S	S	S	S	S
Hispanic	1,000	2,000	13,000	1,000	10,000	S	S	S	S
White	1,000	5,000	5,000	7,000	3,000	5,000	3,000	9,000	14,000
Other	9,000	S	S	S	S	S	S	S	S
Sociologists/anthropologists	6,000	12,000	5,000	4,000	17,000	16,000	6,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	26,000	S	S	S	S	S	S	S	S
Hispanic	11,000	S	S	S	S	S	S	S	S
White	9,000	8,000	7,000	S	10,000	13,000	10,000	S	S
Other	S	S	S	S	S	S	S	S	S
Other social/related scientists	2,000	1,000	4,000	6,000	8,000	17,000	7,000	28,000	11,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	14,000	21,000	S	S	S	S	S	S	S
Black	7,000	9,000	S	S	S	S	S	S	S
Hispanic	6,000	15,000	S	S	S	S	S	S	S
White	3,000	1,000	4,000	9,000	8,000	17,000	5,000	33,000	S
Other	S	S	S	S	S	S	S	S	S
Engineers	1,000	1,000	1,000	1,000	2,000	1,000	2,000	1,000	3,000
American Indian/Alaska Native	7,000	S	S	S	S	S	S	S	S
Asian	1,000	3,000	1,000	3,000	4,000	4,000	5,000	4,000	5,000
Black	2,000	5,000	2,000	4,000	9,000	3,000	12,000	S	S
Hispanic	2,000	3,000	2,000	6,000	5,000	3,000	12,000	8,000	16,000
White	1,000	1,000	2,000	1,000	2,000	2,000	3,000	2,000	4,000
Other	7,000	16,000	19,000	9,000	6,000	18,000	18,000	S	S
Aerospace/aeronautical/astronautical engineers	3,000	3,000	2,000	6,000	3,000	4,000	6,000	4,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	S	S	S	S	S	S
Black	18,000	S	S	S	S	S	S	S	S
Hispanic	4,000	11,000	S	S	S	S	S	S	S
White	2,000	4,000	2,000	10,000	3,000	5,000	8,000	3,000	1,000
Other	9,000	S	S	S	S	S	S	S	S
Chemical engineers	2,000	1,000	1,000	4,000	4,000	4,000	7,000	14,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	1,000	6,000	5,000	23,000	S	S	S	S
Black	10,000	46,000	S	S	S	S	S	S	S
Hispanic	8,000	16,000	S	S	S	S	S	S	S
White	3,000	3,000	2,000	5,000	3,000	4,000	8,000	12,000	5,000
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	2,000	500	2,000	3,000	2,000	3,000	2,000	3,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	2,000	3,000	7,000	8,000	6,000	7,000	3,000	5,000
Black	5,000	1,000	S	S	S	S	S	S	S
Hispanic	4,000	2,000	5,000	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	2,000	1,000	1,000	2,000	2,000	3,000	6,000	3,000	7,000
Other	20,000	S	S	S	S	S	S	S	S
Electrical/computer hardware engineers	1,000	1,000	1,000	2,000	2,000	1,000	4,000	3,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	2,000	5,000	5,000	5,000	5,000	1,000	24,000	S
Black	6,000	7,000	8,000	S	S	S	S	S	S
Hispanic	3,000	4,000	2,000	6,000	13,000	S	S	S	S
White	1,000	2,000	4,000	2,000	2,000	2,000	3,000	3,000	8,000
Other	8,000	S	S	S	S	S	S	S	S
Industrial engineers	2,000	2,000	5,000	6,000	3,000	9,000	4,000	9,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	9,000	9,000	S	S	S	S	S	S	S
Black	5,000	S	S	S	S	S	S	S	S
Hispanic	3,000	1,000	S	S	S	S	S	S	S
White	3,000	3,000	4,000	6,000	4,000	10,000	2,000	6,000	S
Other	S	S	S	S	S	S	S	S	S
Mechanical engineers	1,000	2,000	1,000	2,000	2,000	3,000	4,000	3,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	3,000	6,000	9,000	7,000	8,000	7,000	S
Black	6,000	3,000	S	S	S	S	S	S	S
Hispanic	3,000	3,000	6,000	S	S	S	S	S	S
White	1,000	1,000	2,000	3,000	2,000	4,000	4,000	3,000	10,000
Other	3,000	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	2,000	8,000	4,000	2,000	3,000	8,000	5,000	5,000	10,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	4,000	S	3,000	6,000	S	S	S	S
Black	4,000	S	S	S	S	S	S	S	S
Hispanic	13,000	18,000	S	S	S	S	S	S	S
White	3,000	7,000	6,000	2,000	3,000	7,000	5,000	5,000	10,000
Other	S	S	S	S	S	S	S	S	S
Other engineers	2,000	1,000	2,000	2,000	5,000	4,000	2,000	5,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	4,000	5,000	3,000	4,000	3,000	S	4,000	S
Black	6,000	8,000	5,000	S	S	S	S	S	S
Hispanic	5,000	3,000	9,000	21,000	S	S	S	S	S
White	1,000	2,000	3,000	2,000	6,000	4,000	2,000	5,000	7,000
Other	13,000	S	S	S	S	S	S	S	S
S&E-related occupations	1,000	1,000	500	1,000	1,000	1,000	2,000	2,000	4,000
American Indian/Alaska Native	5,000	6,000	S	12,000	S	S	S	S	S
Asian	2,000	2,000	4,000	4,000	5,000	4,000	3,000	3,000	5,000
Black	500	4,000	3,000	4,000	2,000	2,000	4,000	5,000	10,000
Hispanic	3,000	2,000	3,000	5,000	5,000	7,000	7,000	16,000	17,000
White	1,000	2,000	1,000	2,000	1,000	3,000	2,000	2,000	3,000
Other	5,000	1,000	7,000	7,000	16,000	7,000	3,000	S	30,000
Health-related occupations	1,000	500	500	2,000	4,000	3,000	1,000	4,000	5,000
American Indian/Alaska Native	17,000	S	S	S	S	S	S	S	S
Asian	2,000	3,000	6,000	5,000	5,000	4,000	6,000	6,000	6,000
Black	1,000	3,000	5,000	5,000	4,000	1,000	8,000	21,000	24,000
Hispanic	3,000	3,000	4,000	5,000	6,000	6,000	5,000	6,000	10,000
White	2,000	500	1,000	3,000	4,000	2,000	2,000	4,000	5,000
Other	7,000	3,000	10,000	6,000	S	5,000	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
S&E managers	1,000	2,000	3,000	5,000	3,000	5,000	5,000	5,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	4,000	8,000	10,000	14,000	6,000	39,000	S	S
Black	5,000	1,000	S	14,000	S	S	S	S	S
Hispanic	4,000	S	S	14,000	11,000	S	S	S	S
White	2,000	4,000	4,000	5,000	3,000	5,000	4,000	4,000	7,000
Other	5,000	S	S	S	S	S	S	S	S
S&E precollege teachers	1,000	1,000	1,000	1,000	2,000	2,000	2,000	1,000	5,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	4,000	S	S	S	S	S	S	S
Black	2,000	1,000	2,000	5,000	4,000	S	S	S	S
Hispanic	2,000	3,000	2,000	3,000	6,000	S	S	S	S
White	1,000	500	1,000	1,000	2,000	2,000	2,000	1,000	4,000
Other	4,000	S	S	S	S	S	S	S	S
S&E technicians/technologists	1,000	1,000	3,000	2,000	2,000	5,000	5,000	5,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	500	3,000	8,000	7,000	8,000	9,000	11,000	S
Black	3,000	6,000	7,000	S	S	S	S	S	S
Hispanic	5,000	2,000	10,000	14,000	9,000	S	S	S	S
White	1,000	2,000	2,000	2,000	2,000	4,000	5,000	6,000	9,000
Other	7,000	S	S	S	S	S	S	S	S
Other S&E-related occupations	1,000	2,000	3,000	3,000	3,000	8,000	8,000	9,000	8,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	S	5,000	S	S	S	S	S	S
Black	8,000	S	S	S	S	S	S	S	S
Hispanic	3,000	S	S	S	S	S	S	S	S
White	2,000	3,000	4,000	3,000	3,000	8,000	11,000	16,000	9,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E occupations	500	500	1,000	2,000	1,000	2,000	3,000	3,000	3,000
American Indian/Alaska Native	3,000	4,000	S	S	S	S	S	S	S
Asian	1,000	1,000	5,000	5,000	4,000	4,000	4,000	6,000	6,000
Black	2,000	1,000	2,000	4,000	3,000	4,000	2,000	5,000	7,000
Hispanic	2,000	1,000	3,000	4,000	3,000	8,000	5,000	13,000	6,000
White	500	1,000	1,000	2,000	2,000	4,000	1,000	1,000	3,000
Other	4,000	4,000	8,000	10,000	9,000	8,000	14,000	22,000	S
Art/humanities/related occupations	3,000	2,000	4,000	4,000	12,000	6,000	9,000	6,000	8,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	S	S	S	S	S	S	S	S
Black	7,000	S	S	S	S	S	S	S	S
Hispanic	9,000	5,000	S	S	S	S	S	S	S
White	2,000	2,000	4,000	8,000	9,000	9,000	10,000	10,000	7,000
Other	S	S	S	S	S	S	S	S	S
Management-related occupations	2,000	1,000	3,000	4,000	4,000	3,000	4,000	3,000	3,000
American Indian/Alaska Native	19,000	S	S	S	S	S	S	S	S
Asian	3,000	5,000	6,000	6,000	8,000	5,000	10,000	16,000	S
Black	3,000	15,000	6,000	4,000	8,000	15,000	6,000	S	S
Hispanic	2,000	1,000	3,000	10,000	9,000	10,000	S	S	S
White	1,000	2,000	3,000	3,000	4,000	4,000	5,000	5,000	3,000
Other	5,000	8,000	7,000	S	S	S	S	S	S
Non-S&E managers	2,000	4,000	3,000	5,000	4,000	2,000	5,000	6,000	8,000

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	9,000	10,000	17,000	14,000	48,000	9,000	29,000	8,000	S
Black	3,000	11,000	9,000	11,000	5,000	7,000	3,000	19,000	S
Hispanic	6,000	15,000	16,000	20,000	13,000	9,000	37,000	S	S
White	1,000	4,000	4,000	4,000	4,000	2,000	6,000	6,000	8,000
Other	36,000	S	S	S	S	S	S	S	S
Non-S&E postsecondary teachers	1,000	5,000	2,000	4,000	6,000	5,000	7,000	10,000	16,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	9,000	11,000	41,000	11,000	S	S	S	S	S
Black	5,000	5,000	14,000	S	S	S	S	S	S
Hispanic	13,000	11,000	S	S	S	S	S	S	S
White	1,000	4,000	2,000	5,000	10,000	7,000	8,000	9,000	13,000
Other	6,000	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	1,000	2,000	1,000	3,000	3,000	4,000	3,000	14,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	9,000	S	S	S	S	S	S	S	S
Black	2,000	2,000	3,000	S	9,000	S	S	S	S
Hispanic	2,000	1,000	5,000	4,000	S	S	S	S	S
White	1,000	2,000	2,000	3,000	5,000	5,000	3,000	14,000	4,000
Other	7,000	S	S	S	S	S	S	S	S
Sales/marketing occupations	4,000	2,000	4,000	6,000	6,000	4,000	8,000	9,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	6,000	6,000	9,000	8,000	11,000	5,000	21,000	5,000
Black	6,000	16,000	S	S	S	S	S	S	S
Hispanic	5,000	4,000	7,000	14,000	16,000	28,000	S	S	S
White	3,000	3,000	3,000	6,000	5,000	7,000	9,000	9,000	3,000
Other	22,000	S	S	S	S	S	S	S	S
Social services/related occupations	1,000	1,000	2,000	2,000	2,000	2,000	3,000	6,000	9,000
American Indian/Alaska Native	4,000	S	S	S	S	S	S	S	S
Asian	2,000	3,000	S	S	S	S	S	S	S
Black	2,000	3,000	4,000	4,000	8,000	3,000	5,000	S	S
Hispanic	2,000	2,000	2,000	3,000	4,000	11,000	S	S	S
White	1,000	1,000	2,000	3,000	3,000	4,000	4,000	5,000	5,000
Other	4,000	9,000	S	S	S	S	S	S	S
Other non-S&E occupations	500	500	2,000	2,000	2,000	4,000	3,000	2,000	4,000
American Indian/Alaska Native	11,000	S	S	S	S	S	S	S	S
Asian	3,000	2,000	8,000	2,000	3,000	5,000	6,000	4,000	7,000
Black	1,000	1,000	3,000	8,000	5,000	5,000	12,000	9,000	S
Hispanic	2,000	2,000	5,000	7,000	5,000	8,000	8,000	S	S
White	1,000	500	2,000	3,000	4,000	3,000	3,000	4,000	3,000
Other	4,000	4,000	7,000	S	S	S	S	S	S
Bachelor's degrees, all occupations	500	1,000	500	1,000	2,000	2,000	2,000	2,000	2,000
American Indian/Alaska Native	3,000	2,000	12,000	10,000	6,000	S	S	S	S
Asian	500	2,000	1,000	4,000	1,000	2,000	3,000	4,000	4,000
Black	1,000	500	2,000	2,000	1,000	3,000	3,000	3,000	4,000
Hispanic	2,000	2,000	2,000	2,000	4,000	6,000	4,000	7,000	6,000
White	500	2,000	1,000	1,000	2,000	2,000	2,000	500	3,000
Other	3,000	4,000	5,000	4,000	10,000	2,000	10,000	21,000	15,000
S&E occupations	1,000	500	1,000	1,000	2,000	2,000	2,000	3,000	2,000
American Indian/Alaska Native	4,000	2,000	S	S	S	S	S	S	S
Asian	1,000	2,000	3,000	3,000	4,000	3,000	5,000	6,000	7,000

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	2,000	5,000	2,000	2,000	4,000	7,000	5,000	8,000	S
Hispanic	3,000	1,000	3,000	5,000	5,000	4,000	7,000	15,000	12,000
White	500	500	1,000	2,000	1,000	2,000	2,000	2,000	3,000
Other	3,000	1,000	4,000	12,000	3,000	13,000	15,000	S	S
Scientists	500	500	2,000	2,000	2,000	1,000	3,000	3,000	4,000
American Indian/Alaska Native	6,000	S	S	S	S	S	S	S	S
Asian	2,000	2,000	3,000	4,000	3,000	4,000	6,000	11,000	19,000
Black	1,000	6,000	2,000	3,000	3,000	11,000	4,000	S	S
Hispanic	1,000	3,000	4,000	4,000	6,000	16,000	14,000	S	S
White	1,000	1,000	1,000	2,000	3,000	2,000	3,000	5,000	4,000
Other	3,000	2,000	6,000	9,000	6,000	S	S	S	S
Biological/agricultural/other life scientists	2,000	2,000	3,000	2,000	4,000	1,000	6,000	5,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	4,000	S	S	S	S	S	S	S
Black	4,000	6,000	S	S	S	S	S	S	S
Hispanic	7,000	1,000	S	S	S	S	S	S	S
White	2,000	3,000	3,000	2,000	5,000	2,000	6,000	6,000	4,000
Other	9,000	S	S	S	S	S	S	S	S
Agricultural/food scientists	5,000	1,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	4,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Biological/medical scientists	1,000	2,000	4,000	2,000	3,000	5,000	3,000	4,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	S	S	S	S	S	S
Black	7,000	S	S	S	S	S	S	S	S
Hispanic	5,000	1,000	S	S	S	S	S	S	S
White	6,000	3,000	5,000	2,000	8,000	4,000	4,000	4,000	S
Other	S	S	S	S	S	S	S	S	S
Environmental life scientists	4,000	1,000	S	S	5,000	S	2,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	7,000	1,000	S	S	11,000	S	2,000	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	6,000	5,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	6,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Computer/mathematical scientists	1,000	1,000	2,000	2,000	1,000	2,000	2,000	3,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	3,000	2,000	4,000	3,000	4,000	6,000	S	S
Black	2,000	3,000	2,000	3,000	4,000	6,000	8,000	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Hispanic	4,000	2,000	6,000	5,000	10,000	25,000	12,000	S	S
White	2,000	1,000	2,000	2,000	2,000	3,000	2,000	3,000	4,000
Other	5,000	5,000	5,000	9,000	10,000	S	S	S	S
Computer/information scientists	1,000	1,000	2,000	2,000	2,000	3,000	1,000	3,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	2,000	4,000	3,000	4,000	6,000	S	S
Black	2,000	5,000	4,000	3,000	3,000	6,000	7,000	S	S
Hispanic	3,000	2,000	5,000	5,000	10,000	25,000	S	S	S
White	1,000	2,000	2,000	2,000	3,000	2,000	2,000	4,000	5,000
Other	4,000	9,000	5,000	9,000	10,000	S	S	S	S
Mathematical scientists	7,000	10,000	S	S	S	S	28,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	11,000	3,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematics/science	6,000	1,000	7,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	6,000	1,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Physical/related scientists	1,000	2,000	4,000	2,000	6,000	6,000	6,000	10,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	9,000	S	S	S	S	S	S	S
Black	5,000	17,000	S	S	S	S	S	S	S
Hispanic	4,000	9,000	S	S	S	S	S	S	S
White	2,000	4,000	4,000	2,000	5,000	9,000	4,000	13,000	5,000
Other	5,000	S	S	S	S	S	S	S	S
Chemists, except biochemists	3,000	2,000	2,000	3,000	4,000	16,000	8,000	9,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	7,000	S	S	S	S	S	S	S	S
Black	2,000	S	S	S	S	S	S	S	S
Hispanic	5,000	8,000	S	S	S	S	S	S	S
White	3,000	6,000	3,000	5,000	4,000	21,000	14,000	S	7,000
Other	S	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	4,000	3,000	9,000	7,000	8,000	3,000	7,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	4,000	6,000	10,000	S	9,000	3,000	S	S	S
Other	S	S	S	S	S	S	S	S	S
Physicists/astronomers	6,000	3,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	10,000	2,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	1,000	1,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	6,000	500	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other physical/related scientists	2,000	2,000	2,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	3,000	2,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	2,000	5,000	1,000	2,000	13,000	6,000	11,000	27,000	12,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	19,000	S	S	S	S	S	S	S	S
Black	2,000	S	S	S	S	S	S	S	S
Hispanic	7,000	7,000	S	S	S	S	S	S	S
White	2,000	7,000	1,000	2,000	21,000	S	8,000	26,000	S
Other	S	S	S	S	S	S	S	S	S
Economists	11,000	2,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	13,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Political/related scientists	3,000	10,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	4,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	1,000	1,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Psychologists	4,000	9,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	10,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Sociologists/anthropologists	6,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	14,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other social/related scientists	4,000	1,000	2,000	5,000	12,000	S	10,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	5,000	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	3,000	2,000	2,000	5,000	S	S	9,000	S	S
Other	S	S	S	S	S	S	S	S	S
Engineers	500	500	1,000	500	1,000	2,000	500	1,000	2,000
American Indian/Alaska Native	9,000	S	S	S	S	S	S	S	S
Asian	2,000	1,000	7,000	2,000	5,000	3,000	3,000	5,000	7,000
Black	3,000	4,000	3,000	3,000	9,000	2,000	13,000	S	S
Hispanic	2,000	3,000	3,000	5,000	5,000	3,000	12,000	S	18,000
White	500	500	1,000	1,000	1,000	2,000	1,000	2,000	3,000
Other	9,000	5,000	24,000	S	S	S	S	S	S
Aerospace/aeronautical/astronautical engineers	2,000	3,000	5,000	4,000	3,000	4,000	11,000	8,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	5,000	2,000	S	S	S	S	S	S	S
White	3,000	1,000	5,000	4,000	4,000	5,000	14,000	11,000	3,000
Other	S	S	S	S	S	S	S	S	S
Chemical engineers	2,000	2,000	3,000	7,000	2,000	5,000	5,000	15,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	S	S	S	S	S	S
Black	5,000	S	S	S	S	S	S	S	S
Hispanic	7,000	S	S	S	S	S	S	S	S
White	3,000	3,000	3,000	9,000	2,000	5,000	4,000	S	S
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	1,000	1,000	2,000	3,000	2,000	3,000	2,000	3,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	S	S	3,000	S	S	S
Black	5,000	2,000	S	S	S	S	S	S	S
Hispanic	4,000	3,000	S	S	S	S	S	S	S
White	1,000	1,000	3,000	5,000	1,000	3,000	5,000	2,000	9,000
Other	12,000	S	S	S	S	S	S	S	S
Electrical/computer hardware engineers	500	500	3,000	2,000	3,000	3,000	5,000	4,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	2,000	13,000	9,000	6,000	5,000	S	S	S
Black	7,000	7,000	S	S	S	S	S	S	S
Hispanic	5,000	7,000	6,000	7,000	S	S	S	S	S
White	500	500	3,000	2,000	1,000	3,000	4,000	4,000	9,000
Other	9,000	S	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Industrial engineers	1,000	2,000	1,000	5,000	3,000	12,000	4,000	4,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	21,000	S	S	S	S	S	S	S	S
Black	5,000	S	S	S	S	S	S	S	S
Hispanic	6,000	10,000	S	S	S	S	S	S	S
White	2,000	5,000	1,000	5,000	3,000	13,000	3,000	4,000	S
Other	S	S	S	S	S	S	S	S	S
Mechanical engineers	1,000	1,000	1,000	2,000	3,000	2,000	4,000	6,000	9,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	S	S	S	S	S	S	S	S
Black	5,000	S	S	S	S	S	S	S	S
Hispanic	4,000	7,000	S	S	S	S	S	S	S
White	500	2,000	2,000	5,000	3,000	4,000	3,000	5,000	9,000
Other	5,000	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	2,000	3,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	5,000	1,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other engineers	2,000	2,000	4,000	2,000	1,000	5,000	5,000	4,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	5,000	S	S	S	S	S	S	S
Black	4,000	8,000	S	S	S	S	S	S	S
Hispanic	6,000	2,000	S	S	S	S	S	S	S
White	1,000	1,000	5,000	2,000	1,000	5,000	4,000	5,000	8,000
Other	5,000	S	S	S	S	S	S	S	S
S&E-related occupations	1,000	1,000	1,000	1,000	2,000	2,000	2,000	1,000	3,000
American Indian/Alaska Native	4,000	S	S	S	S	S	S	S	S
Asian	500	8,000	3,000	1,000	5,000	3,000	6,000	4,000	5,000
Black	2,000	500	3,000	3,000	3,000	4,000	6,000	8,000	S
Hispanic	2,000	2,000	2,000	5,000	3,000	9,000	6,000	S	S
White	1,000	1,000	2,000	2,000	1,000	3,000	2,000	1,000	4,000
Other	4,000	2,000	11,000	7,000	S	3,000	S	S	S
Health-related occupations	1,000	1,000	2,000	1,000	2,000	2,000	3,000	2,000	3,000
American Indian/Alaska Native	2,000	S	S	S	S	S	S	S	S
Asian	3,000	3,000	4,000	4,000	8,000	2,000	6,000	5,000	8,000
Black	2,000	6,000	4,000	4,000	7,000	3,000	8,000	S	S
Hispanic	2,000	8,000	4,000	10,000	7,000	11,000	8,000	S	S
White	1,000	1,000	2,000	3,000	2,000	3,000	3,000	2,000	4,000
Other	4,000	3,000	14,000	S	S	S	S	S	S
S&E managers	3,000	1,000	4,000	9,000	7,000	3,000	6,000	7,000	12,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	8,000	S	S	S	S	S	S	S	S
Black	10,000	S	S	S	S	S	S	S	S
Hispanic	8,000	S	S	S	S	S	S	S	S
White	4,000	1,000	6,000	10,000	8,000	3,000	7,000	8,000	13,000
Other	S	S	S	S	S	S	S	S	S
S&E precollege teachers	1,000	1,000	500	2,000	4,000	2,000	2,000	3,000	5,000

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	S	S	S	S	S	S	S	S
Black	2,000	4,000	S	S	S	S	S	S	S
Hispanic	3,000	2,000	2,000	S	S	S	S	S	S
White	1,000	1,000	500	2,000	5,000	3,000	2,000	4,000	5,000
Other	5,000	S	S	S	S	S	S	S	S
S&E technicians/technologists	2,000	2,000	2,000	2,000	2,000	5,000	5,000	6,000	9,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	500	6,000	6,000	15,000	9,000	10,000	S	S
Black	4,000	7,000	S	S	S	S	S	S	S
Hispanic	5,000	2,000	10,000	S	9,000	S	S	S	S
White	2,000	4,000	3,000	2,000	1,000	4,000	5,000	6,000	13,000
Other	6,000	S	S	S	S	S	S	S	S
Other S&E-related occupations	3,000	3,000	3,000	3,000	4,000	16,000	10,000	13,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	6,000	S	S	S	S	S	S	S	S
White	3,000	5,000	4,000	5,000	6,000	11,000	11,000	20,000	6,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E occupations	1,000	500	1,000	2,000	1,000	2,000	2,000	5,000	3,000
American Indian/Alaska Native	5,000	8,000	S	S	S	S	S	S	S
Asian	3,000	500	5,000	6,000	3,000	3,000	3,000	9,000	6,000
Black	2,000	3,000	3,000	3,000	3,000	4,000	7,000	5,000	6,000
Hispanic	2,000	500	3,000	5,000	3,000	4,000	9,000	17,000	5,000
White	1,000	1,000	1,000	500	3,000	4,000	2,000	2,000	3,000
Other	2,000	1,000	3,000	13,000	S	5,000	10,000	S	S
Art/humanities/related occupations	5,000	2,000	8,000	3,000	11,000	S	9,000	10,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	9,000	S	S	S	S	S	S	S	S
White	4,000	3,000	8,000	7,000	14,000	S	12,000	20,000	S
Other	S	S	S	S	S	S	S	S	S
Management-related occupations	1,000	2,000	3,000	2,000	2,000	5,000	3,000	3,000	2,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	1,000	6,000	8,000	S	7,000	S	S	S
Black	4,000	5,000	5,000	4,000	S	S	12,000	S	S
Hispanic	2,000	7,000	6,000	S	S	S	S	S	S
White	4,000	2,000	4,000	5,000	4,000	4,000	5,000	6,000	6,000
Other	5,000	S	S	S	S	S	S	S	S
Non-S&E managers	3,000	4,000	3,000	10,000	3,000	7,000	6,000	2,000	5,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	19,000	S	S	S	S	S	S	S	S
Black	5,000	S	S	S	S	S	S	S	S
Hispanic	7,000	S	S	S	S	S	S	S	S
White	3,000	3,000	2,000	12,000	2,000	7,000	6,000	3,000	8,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E postsecondary teachers	5,000	3,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	7,000	5,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	2,000	2,000	2,000	6,000	3,000	7,000	5,000	12,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	S	S	S	S	S	S	S	S
Black	3,000	4,000	S	S	S	S	S	S	S
Hispanic	2,000	2,000	S	S	S	S	S	S	S
White	2,000	1,000	2,000	10,000	3,000	7,000	7,000	S	2,000
Other	9,000	S	S	S	S	S	S	S	S
Sales/marketing occupations	1,000	1,000	2,000	2,000	6,000	5,000	7,000	6,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	6,000	4,000	S	7,000	S	S	S	S
Black	6,000	6,000	S	S	S	S	S	S	S
Hispanic	6,000	4,000	10,000	S	S	S	S	S	S
White	1,000	3,000	2,000	2,000	5,000	7,000	8,000	7,000	3,000
Other	9,000	S	S	S	S	S	S	S	S
Social services/related occupations	500	1,000	2,000	2,000	4,000	2,000	4,000	8,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	S	S	S	S	S	S	S	S
Black	1,000	1,000	1,000	S	S	S	S	S	S
Hispanic	2,000	1,000	S	S	S	S	S	S	S
White	1,000	1,000	1,000	3,000	3,000	S	6,000	S	S
Other	1,000	S	S	S	S	S	S	S	S
Other non-S&E occupations	500	3,000	2,000	2,000	2,000	2,000	3,000	2,000	2,000
American Indian/Alaska Native	11,000	S	S	S	S	S	S	S	S
Asian	500	2,000	4,000	5,000	2,000	5,000	5,000	5,000	7,000
Black	2,000	4,000	2,000	7,000	5,000	5,000	15,000	S	S
Hispanic	1,000	2,000	3,000	3,000	8,000	11,000	9,000	S	S
White	1,000	1,000	3,000	2,000	3,000	3,000	3,000	1,000	2,000
Other	4,000	1,000	S	S	S	S	S	S	S
Master's degrees, all occupations	500	2,000	500	2,000	2,000	1,000	2,000	1,000	5,000
American Indian/Alaska Native	8,000	6,000	S	S	S	S	S	S	S
Asian	2,000	3,000	4,000	3,000	4,000	6,000	4,000	8,000	6,000
Black	2,000	4,000	2,000	3,000	2,000	5,000	5,000	5,000	S
Hispanic	2,000	1,000	4,000	4,000	6,000	4,000	4,000	8,000	S
White	500	1,000	2,000	2,000	2,000	1,000	3,000	2,000	7,000
Other	6,000	8,000	7,000	7,000	8,000	11,000	19,000	S	S
S&E occupations	500	2,000	1,000	2,000	2,000	1,000	2,000	5,000	5,000
American Indian/Alaska Native	7,000	S	S	S	S	S	S	S	S
Asian	1,000	2,000	2,000	2,000	1,000	4,000	5,000	6,000	9,000
Black	1,000	4,000	4,000	8,000	12,000	12,000	11,000	S	S
Hispanic	3,000	1,000	4,000	9,000	9,000	7,000	S	S	S
White	500	2,000	2,000	1,000	4,000	2,000	3,000	6,000	9,000
Other	7,000	10,000	8,000	S	S	S	S	S	S
Scientists	500	2,000	3,000	3,000	4,000	4,000	2,000	5,000	12,000
American Indian/Alaska Native	6,000	S	S	S	S	S	S	S	S
Asian	3,000	6,000	3,000	2,000	1,000	8,000	7,000	7,000	S
Black	2,000	4,000	6,000	8,000	3,000	S	S	S	S
Hispanic	2,000	4,000	11,000	10,000	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	2,000	2,000	4,000	1,000	2,000	5,000	3,000	5,000	11,000
Other	8,000	12,000	20,000	S	S	S	S	S	S
Biological/agricultural/other life scientists	1,000	2,000	4,000	9,000	2,000	6,000	9,000	7,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	5,000	S	S	S	S	S	S	S
Black	13,000	S	S	S	S	S	S	S	S
Hispanic	10,000	17,000	S	S	S	S	S	S	S
White	1,000	2,000	4,000	8,000	4,000	6,000	13,000	S	S
Other	S	S	S	S	S	S	S	S	S
Agricultural/food scientists	6,000	5,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	6,000	5,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Biological/medical scientists	2,000	3,000	5,000	9,000	7,000	8,000	10,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	9,000	4,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	11,000	S	S	S	S	S	S	S	S
White	2,000	5,000	4,000	4,000	7,000	9,000	10,000	S	S
Other	S	S	S	S	S	S	S	S	S
Environmental life scientists	2,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	2,000	8,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	3,000	3,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Computer/mathematical scientists	1,000	3,000	2,000	1,000	4,000	2,000	5,000	9,000	19,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	4,000	1,000	3,000	1,000	5,000	15,000	S	S
Black	6,000	10,000	7,000	11,000	S	S	S	S	S
Hispanic	6,000	11,000	11,000	S	S	S	S	S	S
White	2,000	3,000	3,000	4,000	7,000	3,000	6,000	9,000	18,000
Other	6,000	S	S	S	S	S	S	S	S
Computer/information scientists	2,000	1,000	2,000	2,000	4,000	2,000	5,000	12,000	19,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	4,000	2,000	3,000	2,000	5,000	16,000	S	S
Black	2,000	8,000	9,000	S	S	S	S	S	S
Hispanic	7,000	13,000	10,000	S	S	S	S	S	S
White	3,000	2,000	3,000	3,000	6,000	3,000	6,000	12,000	23,000

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Other	6,000	S	S	S	S	S	S	S	S
Mathematical scientists	3,000	5,000	6,000	18,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	4,000	5,000	8,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-computer/ mathematics/science	2,000	8,000	2,000	5,000	8,000	8,000	27,000	12,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	S	S	S	S	S	S
Black	11,000	S	S	S	S	S	S	S	S
Hispanic	4,000	S	S	S	S	S	S	S	S
White	2,000	2,000	2,000	5,000	S	S	S	14,000	S
Other	S	S	S	S	S	S	S	S	S
Physical/related scientists	4,000	2,000	5,000	3,000	10,000	5,000	7,000	8,000	16,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	9,000	1,000	9,000	S	S	S	S	S	S
Black	7,000	11,000	S	S	S	S	S	S	S
Hispanic	4,000	8,000	S	S	S	S	S	S	S
White	3,000	6,000	3,000	3,000	10,000	5,000	10,000	11,000	S
Other	S	S	S	S	S	S	S	S	S
Chemists, except biochemists	1,000	8,000	3,000	3,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	S	5,000	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	8,000	19,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	6,000	2,000	S	5,000	13,000	4,000	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	6,000	3,000	S	5,000	14,000	4,000	S	S	S
Other	S	S	S	S	S	S	S	S	S
Physicists/astronomers	10,000	31,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	12,000	40,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	10,000	3,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	14,000	4,000	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Other	S	S	S	S	S	S	S	S	S
Other physical/related scientists	7,000	3,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	8,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Social/related scientists	3,000	4,000	5,000	6,000	4,000	4,000	4,000	9,000	17,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	11,000	6,000	S	S	S	S	S	S	S
Black	3,000	5,000	S	S	S	S	S	S	S
Hispanic	2,000	4,000	S	S	S	S	S	S	S
White	3,000	3,000	3,000	7,000	5,000	4,000	5,000	9,000	18,000
Other	8,000	S	S	S	S	S	S	S	S
Economists	7,000	14,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	7,000	14,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Political/related scientists	S	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	5,000	1,000	8,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	8,000	1,000	12,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Psychologists	1,000	3,000	6,000	4,000	5,000	6,000	7,000	8,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	1,000	S	S	S	S	S	S	S	S
Hispanic	2,000	4,000	S	S	S	S	S	S	S
White	1,000	2,000	2,000	4,000	6,000	5,000	6,000	9,000	S
Other	S	S	S	S	S	S	S	S	S
Sociologists/anthropologists	10,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	15,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Other social/related scientists	7,000	6,000	9,000	12,000	14,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	13,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	9,000	5,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Engineers	1,000	2,000	3,000	3,000	3,000	3,000	3,000	1,000	12,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	500	1,000	1,000	2,000	5,000	7,000	4,000	3,000	S
Black	3,000	9,000	7,000	S	S	S	S	S	S
Hispanic	4,000	4,000	4,000	10,000	S	S	S	S	S
White	500	1,000	3,000	3,000	4,000	3,000	3,000	3,000	12,000
Other	9,000	15,000	S	S	S	S	S	S	S
Aerospace/aeronautical/astronautical engineers	4,000	3,000	8,000	10,000	4,000	20,000	6,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	16,000	S	S	S	S	S	S	S	S
White	5,000	6,000	7,000	S	3,000	S	6,000	S	S
Other	S	S	S	S	S	S	S	S	S
Chemical engineers	3,000	1,000	S	12,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	7,000	6,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	4,000	1,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	2,000	3,000	2,000	2,000	6,000	9,000	6,000	10,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	3,000	S	S	S	S	S	S	S
Black	9,000	S	S	S	S	S	S	S	S
Hispanic	11,000	8,000	S	S	S	S	S	S	S
White	3,000	4,000	3,000	4,000	6,000	13,000	8,000	15,000	S
Other	S	S	S	S	S	S	S	S	S
Electrical/computer hardware engineers	1,000	3,000	3,000	4,000	6,000	6,000	6,000	10,000	15,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	3,000	4,000	6,000	6,000	5,000	S	S	S
Black	6,000	S	S	S	S	S	S	S	S
Hispanic	2,000	S	S	S	S	S	S	S	S
White	2,000	1,000	4,000	4,000	7,000	7,000	5,000	3,000	14,000
Other	S	S	S	S	S	S	S	S	S
Industrial engineers	3,000	3,000	5,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	8,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	7,000	S	S	S	S	S	S	S	S
White	3,000	9,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Mechanical engineers	3,000	4,000	3,000	4,000	3,000	13,000	5,000	6,000	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	1,000	4,000	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	15,000	18,000	S	S	S	S	S	S	S
White	2,000	3,000	6,000	4,000	3,000	11,000	5,000	6,000	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	5,000	12,000	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	6,000	21,000	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other engineers	2,000	3,000	4,000	5,000	4,000	5,000	7,000	4,000	26,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	8,000	6,000	S	S	S	S	S	S
Black	7,000	S	S	S	S	S	S	S	S
Hispanic	4,000	4,000	S	S	S	S	S	S	S
White	3,000	4,000	4,000	6,000	9,000	7,000	6,000	10,000	S
Other	S	S	S	S	S	S	S	S	S
S&E-related occupations	1,000	1,000	2,000	2,000	2,000	3,000	3,000	2,000	6,000
American Indian/Alaska Native	12,000	S	S	S	S	S	S	S	S
Asian	3,000	3,000	5,000	7,000	7,000	14,000	7,000	S	S
Black	2,000	2,000	5,000	9,000	4,000	4,000	S	S	S
Hispanic	4,000	3,000	12,000	8,000	6,000	S	S	S	S
White	1,000	1,000	2,000	3,000	2,000	4,000	3,000	3,000	9,000
Other	10,000	S	S	S	S	S	S	S	S
Health-related occupations	3,000	500	3,000	3,000	3,000	3,000	5,000	5,000	9,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	6,000	S	14,000	10,000	S	S	S	S
Black	3,000	5,000	6,000	S	S	S	S	S	S
Hispanic	3,000	8,000	S	S	S	S	S	S	S
White	2,000	500	3,000	3,000	5,000	2,000	4,000	7,000	8,000
Other	16,000	S	S	S	S	S	S	S	S
S&E managers	2,000	4,000	3,000	5,000	5,000	11,000	9,000	6,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	S	S	S	S	S	S	S	S
Black	4,000	S	S	S	S	S	S	S	S
Hispanic	7,000	S	S	S	S	S	S	S	S
White	2,000	7,000	3,000	5,000	3,000	11,000	10,000	7,000	S
Other	S	S	S	S	S	S	S	S	S
S&E precollege teachers	1,000	500	2,000	2,000	1,000	2,000	2,000	5,000	12,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	S	S	S	S	S	S	S	S
Black	2,000	7,000	S	S	S	S	S	S	S
Hispanic	3,000	3,000	S	S	S	S	S	S	S
White	2,000	1,000	3,000	2,000	1,000	2,000	2,000	4,000	12,000
Other	S	S	S	S	S	S	S	S	S
S&E technicians/technologists	2,000	4,000	3,000	8,000	4,000	13,000	14,000	14,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	5,000	6,000	6,000	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	5,000	S	S	S	S	S	S	S	S
Hispanic	5,000	S	S	S	S	S	S	S	S
White	2,000	4,000	7,000	14,000	5,000	20,000	18,000	S	S
Other	S	S	S	S	S	S	S	S	S
Other S&E-related occupations	3,000	3,000	5,000	10,000	5,000	16,000	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	4,000	5,000	S	10,000	6,000	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E occupations	1,000	1,000	2,000	3,000	3,000	4,000	3,000	4,000	3,000
American Indian/Alaska Native	8,000	S	S	S	S	S	S	S	S
Asian	5,000	3,000	7,000	3,000	13,000	7,000	18,000	6,000	S
Black	2,000	2,000	5,000	5,000	2,000	5,000	1,000	7,000	S
Hispanic	2,000	3,000	3,000	8,000	10,000	7,000	6,000	S	S
White	2,000	1,000	3,000	3,000	3,000	4,000	2,000	6,000	3,000
Other	10,000	6,000	9,000	S	S	S	S	S	S
Art/humanities/related occupations	2,000	16,000	3,000	31,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	3,000	11,000	3,000	28,000	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Management-related occupations	2,000	4,000	1,000	4,000	7,000	6,000	7,000	8,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	5,000	4,000	14,000	S	S	S	S	S
Black	10,000	6,000	5,000	S	S	S	S	S	S
Hispanic	10,000	15,000	S	S	S	S	S	S	S
White	2,000	6,000	2,000	5,000	8,000	9,000	8,000	9,000	7,000
Other	20,000	S	S	S	S	S	S	S	S
Non-S&E managers	3,000	5,000	7,000	3,000	7,000	5,000	8,000	10,000	16,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	10,000	S	S	S	S	S	S	S	S
Black	6,000	S	S	S	S	S	S	S	S
Hispanic	7,000	S	S	S	S	S	S	S	S
White	2,000	5,000	7,000	5,000	7,000	5,000	15,000	9,000	17,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E postsecondary teachers	2,000	7,000	4,000	6,000	3,000	7,000	10,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	11,000	S	S	S	S	S	S	S	S
Black	5,000	S	S	S	S	S	S	S	S
Hispanic	10,000	S	S	S	S	S	S	S	S
White	4,000	5,000	4,000	8,000	3,000	S	14,000	S	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	1,000	2,000	1,000	3,000	2,000	2,000	2,000	16,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	S	S	S	S	S	S	S	S
Black	3,000	1,000	S	S	S	S	S	S	S
Hispanic	3,000	8,000	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	2,000	1,000	3,000	3,000	3,000	2,000	3,000	17,000	S
Other	S	S	S	S	S	S	S	S	S
Sales/marketing occupations	5,000	7,000	14,000	7,000	14,000	11,000	9,000	4,000	12,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	15,000	S	12,000	S	S	S	S	S
Black	8,000	S	S	S	S	S	S	S	S
Hispanic	11,000	S	S	S	S	S	S	S	S
White	6,000	10,000	15,000	7,000	16,000	12,000	8,000	7,000	16,000
Other	S	S	S	S	S	S	S	S	S
Social services/related occupations	1,000	1,000	1,000	3,000	3,000	3,000	4,000	5,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	S	S	S	S	S	S	S	S
Black	1,000	3,000	1,000	S	S	S	S	S	S
Hispanic	4,000	2,000	10,000	S	S	S	S	S	S
White	500	1,000	500	4,000	2,000	3,000	4,000	6,000	S
Other	5,000	S	S	S	S	S	S	S	S
Other non-S&E occupations	2,000	3,000	2,000	6,000	4,000	3,000	4,000	7,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	5,000	10,000	S	S	S	S	S	S
Black	4,000	7,000	2,000	S	S	S	S	S	S
Hispanic	3,000	4,000	S	S	S	S	S	S	S
White	3,000	5,000	3,000	8,000	5,000	4,000	9,000	7,000	3,000
Other	S	S	S	S	S	S	S	S	S
Doctorate degrees, all occupations	1,000	1,000	2,000	1,000	3,000	2,000	1,000	4,000	2,000
American Indian/Alaska Native	5,000	8,000	17,000	S	S	S	S	S	S
Asian	2,000	3,000	2,000	2,000	7,000	6,000	3,000	6,000	7,000
Black	2,000	6,000	6,000	6,000	3,000	11,000	10,000	8,000	S
Hispanic	2,000	4,000	3,000	10,000	11,000	31,000	4,000	37,000	9,000
White	1,000	2,000	1,000	1,000	2,000	2,000	3,000	4,000	4,000
Other	4,000	9,000	6,000	5,000	14,000	33,000	5,000	S	S
S&E occupations	500	1,000	2,000	500	1,000	2,000	2,000	2,000	5,000
American Indian/Alaska Native	8,000	S	S	S	S	S	S	S	S
Asian	500	4,000	2,000	2,000	6,000	5,000	5,000	6,000	8,000
Black	4,000	9,000	3,000	6,000	2,000	3,000	13,000	9,000	S
Hispanic	3,000	3,000	4,000	4,000	3,000	11,000	3,000	5,000	S
White	1,000	1,000	1,000	1,000	500	2,000	2,000	1,000	5,000
Other	4,000	9,000	4,000	7,000	14,000	10,000	4,000	S	S
Scientists	1,000	2,000	1,000	2,000	1,000	1,000	1,000	2,000	5,000
American Indian/Alaska Native	8,000	S	S	S	S	S	S	S	S
Asian	500	5,000	2,000	3,000	6,000	4,000	7,000	13,000	12,000
Black	5,000	9,000	5,000	5,000	2,000	9,000	9,000	8,000	S
Hispanic	3,000	1,000	3,000	4,000	5,000	11,000	6,000	5,000	S
White	500	1,000	1,000	500	2,000	2,000	1,000	2,000	3,000
Other	3,000	6,000	5,000	7,000	10,000	6,000	S	S	S
Biological/agricultural/other life scientists	1,000	1,000	2,000	1,000	4,000	3,000	3,000	4,000	1,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	2,000	8,000	6,000	8,000	9,000	21,000	7,000	S
Black	8,000	12,000	9,000	16,000	3,000	S	S	S	S
Hispanic	6,000	5,000	7,000	8,000	9,000	S	S	S	S
White	2,000	1,000	500	2,000	3,000	3,000	4,000	4,000	2,000
Other	6,000	S	1,000	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Agricultural/food scientists	1,000	4,000	4,000	4,000	3,000	9,000	8,000	7,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	5,000	S	S	S	S	S	S	S	S
White	3,000	9,000	5,000	4,000	3,000	8,000	8,000	7,000	S
Other	S	S	S	S	S	S	S	S	S
Biological/medical scientists	1,000	1,000	4,000	4,000	3,000	5,000	3,000	4,000	3,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	2,000	7,000	7,000	7,000	8,000	24,000	S	S
Black	14,000	17,000	26,000	S	S	S	S	S	S
Hispanic	4,000	7,000	9,000	34,000	S	S	S	S	S
White	1,000	2,000	2,000	2,000	3,000	7,000	4,000	5,000	4,000
Other	7,000	S	S	S	S	S	S	S	S
Environmental life scientists	7,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	8,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-life/ related sciences	2,000	2,000	1,000	2,000	6,000	2,000	3,000	4,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	7,000	S	18,000	3,000	S	S	S	S	S
Black	5,000	S	S	S	S	S	S	S	S
Hispanic	6,000	3,000	1,000	3,000	S	S	S	S	S
White	2,000	2,000	1,000	2,000	3,000	2,000	3,000	5,000	4,000
Other	3,000	S	S	S	S	S	S	S	S
Computer/mathematical scientists	1,000	5,000	2,000	1,000	5,000	3,000	3,000	6,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	2,000	4,000	6,000	15,000	6,000	14,000	S	S
Black	20,000	9,000	8,000	S	S	S	S	S	S
Hispanic	3,000	9,000	13,000	22,000	S	S	S	S	S
White	2,000	4,000	3,000	2,000	4,000	4,000	4,000	7,000	9,000
Other	18,000	S	S	S	S	S	S	S	S
Computer/information scientists	1,000	4,000	2,000	6,000	5,000	6,000	8,000	9,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	8,000	3,000	7,000	10,000	S	S	S	S
Black	8,000	S	S	S	S	S	S	S	S
Hispanic	24,000	S	S	S	S	S	S	S	S
White	3,000	11,000	6,000	8,000	5,000	9,000	7,000	10,000	S
Other	S	S	S	S	S	S	S	S	S
Mathematical scientists	3,000	1,000	3,000	8,000	4,000	6,000	8,000	4,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	4,000	5,000	2,000	S	S	S	S	S	S
Black	7,000	S	S	S	S	S	S	S	S
Hispanic	11,000	S	S	S	S	S	S	S	S
White	4,000	10,000	9,000	12,000	4,000	9,000	10,000	4,000	S
Other	S	S	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Postsecondary teachers-computer/ mathematics/science	2,000	6,000	2,000	5,000	6,000	9,000	5,000	4,000	10,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	8,000	6,000	7,000	41,000	S	S	S	S
Black	4,000	S	S	S	S	S	S	S	S
Hispanic	7,000	500	S	S	S	S	S	S	S
White	2,000	4,000	2,000	5,000	5,000	9,000	7,000	9,000	10,000
Other	S	S	S	S	S	S	S	S	S
Physical/related scientists	2,000	2,000	2,000	3,000	2,000	2,000	4,000	2,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	5,000	4,000	2,000	7,000	6,000	33,000	6,000	S
Black	13,000	22,000	15,000	S	S	S	S	S	S
Hispanic	3,000	7,000	10,000	6,000	12,000	S	S	S	S
White	2,000	2,000	4,000	3,000	3,000	4,000	5,000	3,000	3,000
Other	13,000	S	S	S	S	S	S	S	S
Chemists, except biochemists	1,000	4,000	1,000	4,000	5,000	4,000	2,000	5,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	8,000	2,000	4,000	11,000	S	S	S	S
Black	500	S	S	S	S	S	S	S	S
Hispanic	3,000	S	S	S	S	S	S	S	S
White	2,000	3,000	2,000	5,000	3,000	5,000	4,000	5,000	8,000
Other	S	S	S	S	S	S	S	S	S
Earth/atmospheric/ocean scientists	1,000	3,000	5,000	6,000	5,000	16,000	2,000	4,000	16,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	9,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	7,000	S	S	S	S	S	S	S	S
White	3,000	4,000	4,000	7,000	7,000	6,000	3,000	7,000	9,000
Other	S	S	S	S	S	S	S	S	S
Physicists/astronomers	3,000	4,000	3,000	8,000	1,000	3,000	6,000	3,000	4,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	9,000	3,000	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	4,000	4,000	5,000	5,000	5,000	5,000	4,000	4,000
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-physical/ related sciences	1,000	1,000	1,000	2,000	500	2,000	5,000	3,000	7,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	7,000	S	S	S	S	S	S	S	S
Black	3,000	S	S	S	S	S	S	S	S
Hispanic	5,000	S	S	S	S	S	S	S	S
White	1,000	2,000	1,000	2,000	1,000	3,000	6,000	4,000	6,000
Other	27,000	S	S	S	S	S	S	S	S
Other physical/related scientists	3,000	7,000	17,000	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	22,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Social/related scientists	1,000	500	500	2,000	2,000	2,000	5,000	4,000	6,000
American Indian/Alaska Native	4,000	S	S	S	S	S	S	S	S
Asian	4,000	11,000	3,000	9,000	6,000	19,000	10,000	S	S
Black	3,000	3,000	8,000	5,000	11,000	8,000	6,000	S	S
Hispanic	3,000	3,000	2,000	3,000	6,000	9,000	S	S	S
White	1,000	500	1,000	2,000	3,000	3,000	6,000	4,000	4,000
Other	2,000	10,000	12,000	S	S	S	S	S	S
Economists	2,000	7,000	5,000	7,000	9,000	6,000	38,000	18,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	9,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	9,000	S	S	S	S	S	S	S	S
White	5,000	8,000	6,000	8,000	12,000	5,000	S	17,000	S
Other	S	S	S	S	S	S	S	S	S
Political/related scientists	5,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	8,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-social/ related sciences	2,000	1,000	1,000	3,000	2,000	4,000	3,000	4,000	8,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	12,000	3,000	12,000	10,000	S	S	S	S
Black	3,000	2,000	7,000	3,000	13,000	4,000	4,000	S	S
Hispanic	2,000	1,000	1,000	5,000	S	S	S	S	S
White	1,000	1,000	1,000	3,000	1,000	3,000	2,000	4,000	9,000
Other	4,000	S	S	S	S	S	S	S	S
Psychologists	1,000	2,000	500	3,000	4,000	2,000	7,000	4,000	9,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	9,000	S	S	S	S	S	S	S
Black	7,000	2,000	S	S	S	S	S	S	S
Hispanic	5,000	3,000	9,000	S	S	S	S	S	S
White	2,000	2,000	1,000	3,000	5,000	3,000	6,000	4,000	9,000
Other	5,000	S	S	S	S	S	S	S	S
Sociologists/anthropologists	1,000	9,000	4,000	4,000	4,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	19,000	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	10,000	3,000	S	4,000	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other social/related scientists	500	5,000	5,000	500	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	S	S	S	S	S	S	S
Black	18,000	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	5,000	7,000	5,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Engineers	2,000	3,000	1,000	1,000	3,000	1,000	3,000	6,000	8,000

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	4,000	3,000	3,000	7,000	5,000	8,000	9,000	S
Black	5,000	9,000	4,000	7,000	S	S	S	S	S
Hispanic	1,000	10,000	4,000	13,000	S	S	17,000	S	S
White	2,000	5,000	2,000	2,000	2,000	2,000	3,000	6,000	9,000
Other	10,000	S	S	S	S	S	S	S	S
Aerospace/aeronautical/astronautical engineers	7,000	5,000	4,000	4,000	6,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	8,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	9,000	S	4,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Chemical engineers	3,000	5,000	3,000	1,000	2,000	12,000	4,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	S	3,000	5,000	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	2,000	14,000	3,000	2,000	7,000	S	2,000	S	S
Other	S	S	S	S	S	S	S	S	S
Civil/architectural/sanitary engineers	2,000	5,000	2,000	3,000	5,000	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	7,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	3,000	S	2,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Electrical/computer hardware engineers	1,000	3,000	4,000	4,000	4,000	14,000	11,000	4,000	32,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	4,000	6,000	4,000	S	S	S	S	S
Black	3,000	S	S	S	S	S	S	S	S
Hispanic	18,000	S	S	S	S	S	S	S	S
White	2,000	4,000	6,000	10,000	3,000	12,000	7,000	6,000	17,000
Other	S	S	S	S	S	S	S	S	S
Industrial engineers	30,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	35,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Mechanical engineers	2,000	3,000	2,000	1,000	8,000	5,000	10,000	19,000	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	1,000	3,000	4,000	3,000	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	3,000	5,000	2,000	3,000	10,000	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Postsecondary teachers-engineering	1,000	3,000	3,000	3,000	2,000	6,000	3,000	6,000	8,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	5,000	4,000	S	3,000	3,000	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Black	6,000	S	S	S	S	S	S	S	S
Hispanic	10,000	S	S	S	S	S	S	S	S
White	2,000	4,000	3,000	4,000	4,000	4,000	2,000	8,000	8,000
Other	S	S	S	S	S	S	S	S	S
Other engineers	1,000	3,000	3,000	2,000	8,000	2,000	3,000	14,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	3,000	12,000	2,000	4,000	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	15,000	S	S	S	S	S	S	S	S
White	2,000	3,000	7,000	1,000	8,000	3,000	6,000	9,000	5,000
Other	S	S	S	S	S	S	S	S	S
S&E-related occupations	4,000	2,000	6,000	6,000	9,000	7,000	4,000	10,000	5,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	7,000	5,000	10,000	11,000	21,000	33,000	33,000	14,000	S
Black	8,000	6,000	4,000	70,000	27,000	S	S	S	S
Hispanic	23,000	48,000	5,000	23,000	40,000	S	S	S	S
White	4,000	3,000	4,000	4,000	11,000	6,000	5,000	12,000	7,000
Other	21,000	S	S	S	S	S	S	S	S
Health-related occupations	3,000	1,000	1,000	4,000	11,000	15,000	6,000	9,000	6,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	8,000	3,000	18,000	20,000	21,000	S	S	S	S
Black	20,000	5,000	8,000	500	S	S	S	S	S
Hispanic	30,000	500	7,000	S	S	S	S	S	S
White	4,000	1,000	1,000	3,000	13,000	13,000	5,000	5,000	8,000
Other	114,000	S	S	S	S	S	S	S	S
S&E managers	2,000	3,000	3,000	9,000	8,000	4,000	4,000	14,000	20,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	2,000	S	4,000	6,000	6,000	S	S	S	S
Black	38,000	S	S	S	S	S	S	S	S
Hispanic	15,000	S	S	S	S	S	S	S	S
White	3,000	3,000	3,000	7,000	6,000	3,000	3,000	15,000	19,000
Other	S	S	S	S	S	S	S	S	S
S&E precollege teachers	6,000	9,000	1,000	5,000	5,000	12,000	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	7,000	S	500	S	5,000	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
S&E technicians/technologists	7,000	18,000	11,000	36,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	12,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	10,000	10,000	17,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other S&E-related occupations	1,000	S	S	S	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
White	S	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Non-S&E occupations	4,000	9,000	5,000	6,000	5,000	9,000	11,000	20,000	16,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	6,000	5,000	3,000	17,000	27,000	8,000	9,000	40,000	S
Black	4,000	2,000	13,000	2,000	11,000	26,000	17,000	S	S
Hispanic	2,000	7,000	6,000	28,000	14,000	500	3,000	S	S
White	5,000	12,000	5,000	6,000	6,000	12,000	10,000	23,000	15,000
Other	17,000	S	S	S	S	S	S	S	S
Art/humanities/related occupations	13,000	19,000	24,000	19,000	11,000	32,000	19,000	39,000	33,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	42,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	15,000	10,000	18,000	12,000	S	S	14,000	39,000	32,000
Other	S	S	S	S	S	S	S	S	S
Management-related occupations	3,000	3,000	16,000	26,000	1,000	6,000	10,000	56,000	55,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	10,000	S	20,000	6,000	S	S	S	S	S
Black	24,000	S	S	S	S	S	S	S	S
Hispanic	27,000	S	S	S	S	S	S	S	S
White	3,000	2,000	22,000	34,000	1,000	10,000	8,000	49,000	57,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E managers	7,000	4,000	14,000	7,000	11,000	10,000	11,000	13,000	10,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	10,000	S	13,000	10,000	22,000	26,000	29,000	S	S
Black	6,000	S	17,000	22,000	S	123,000	14,000	S	S
Hispanic	19,000	S	S	3,000	S	S	S	S	S
White	7,000	7,000	17,000	8,000	12,000	8,000	13,000	13,000	12,000
Other	13,000	S	S	S	S	S	S	S	S
Non-S&E postsecondary teachers	3,000	2,000	6,000	3,000	5,000	6,000	9,000	8,000	18,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	8,000	3,000	S	3,000	S	S	S	S	S
Black	4,000	6,000	S	S	S	S	S	S	S
Hispanic	5,000	3,000	S	S	S	S	S	S	S
White	3,000	2,000	7,000	3,000	7,000	5,000	8,000	6,000	12,000
Other	S	S	S	S	S	S	S	S	S
Non-S&E precollege/other teachers	11,000	S	9,000	10,000	S	S	S	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	8,000	S	S	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Sales/marketing occupations	23,000	500	7,000	5,000	45,000	15,000	23,000	73,000	500
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	38,000	S	S	S	S	S	S	S	S
Black	S	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	38,000	500	11,000	2,000	6,000	16,000	13,000	109,000	500
Other	S	S	S	S	S	S	S	S	S

TABLE A-29. Standard errors for median annual salaries of employed U.S. scientists and engineers, by highest degree attained, occupation, race/ethnicity, and years since highest degree: 2003

Level of highest degree, occupation, and race/ethnicity[a]	Employed scientists and engineers	Years since highest degree							
		<5 years	5–9 years	10–14 years	15–19 years	20–24 years	25–29 years	30–34 years	35+ years
Social services/related occupations	8,000	6,000	14,000	13,000	8,000	S	8,000	S	S
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	S	S	S	S	S	S	S	S	S
Black	9,000	S	S	S	S	S	S	S	S
Hispanic	S	S	S	S	S	S	S	S	S
White	15,000	9,000	27,000	S	S	S	S	S	S
Other	S	S	S	S	S	S	S	S	S
Other non-S&E occupations	4,000	17,000	32,000	9,000	23,000	2,000	25,000	20,000	15,000
American Indian/Alaska Native	S	S	S	S	S	S	S	S	S
Asian	17,000	S	S	S	S	S	S	S	S
Black	10,000	S	S	S	S	S	S	S	S
Hispanic	9,000	S	S	S	S	S	S	S	S
White	6,000	22,000	40,000	9,000	16,000	1,000	26,000	28,000	15,000
Other	S	S	S	S	S	S	S	S	S

S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] "Other" includes Native Hawaiian/Other Pacific Islander and non-Hispanic respondents reporting 2 or more races.

[b] Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Standard errors of less than 500 are rounded up to 500 and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

TABLE A-30. Standard errors for birthplace of scientists and engineers, by region and other selected characteristics: 2003
(Percent)

Characteristic	U.S. citizen at birth	Place of immigrants' birth: All immigrants	Asia	Europe	South America	Caribbean	Africa	North America (except United States)	Central America (including Mexico)	Other[a]
All scientists and engineers (*n*)	80,000	25,000	23,000	13,000	9,000	9,000	8,000	7,000	9,000	3,000
Age at first entry for 6 months or longer (years)										
Younger than 18	na	0.4	0.6	1.0	1.8	2.6	1.7	2.4	2.8	4.1
18–34	na	0.4	0.7	1.1	2.2	2.4	2.2	2.7	3.0	5.4
35 or older	na	0.4	0.6	1.0	1.6	1.8	1.9	1.7	2.1	5.4
Year of first entry for 6 months or longer										
1993 and earlier	na	0.5	0.7	1.1	2.0	2.1	2.4	2.7	2.3	4.6
1994–2003	na	0.5	0.7	1.1	2.0	2.1	2.4	2.7	2.3	4.6
Current and initial immigration status										
U.S. citizen, naturalized (current)	na	0.6	0.7	1.2	2.3	2.5	2.6	2.7	2.9	4.8
Permanent resident (initial)	na	0.5	0.7	1.2	2.2	2.5	2.3	2.1	2.8	2.7
Temporary resident visa for work (initial)	na	0.2	0.3	0.5	0.7	0.7	0.5	0.7	1.7	1.6
Temporary resident visa for study/training (initial)	na	0.3	0.4	0.6	1.9	1.4	1.6	1.0	1.5	1.5
Temporary resident visa as a dependent (initial)	na	0.3	0.4	0.6	1.4	1.1	0.8	1.3	2.0	3.7
Other temporary resident visa (initial)	na	0.2	0.3	0.6	1.0	1.8	1.3	0.6	1.3	1.1
Permanent resident (current)	na	0.5	0.6	1.1	1.8	2.2	2.5	2.6	2.7	5.5
Permanent resident (initial)	na	0.3	0.4	0.8	1.5	1.6	1.7	1.8	1.7	5.5
Temporary resident visa for work (initial)	na	0.2	0.3	0.7	0.7	0.2	1.4	1.8	1.1	2.8
Temporary resident visa for study/training (initial)	na	0.3	0.4	0.6	1.2	0.7	1.6	1.4	0.8	3.3
Temporary resident visa as a dependent (initial)	na	0.2	0.3	0.4	0.7	1.1	0.6	1.3	1.0	3.2
Other temporary resident visa (initial)	na	0.2	0.2	0.4	1.1	1.4	0.7	0.3	2.0	S
Temporary resident visa (current)	na	0.3	0.4	0.6	1.7	1.1	1.3	2.5	1.3	3.6
Permanent resident (initial)	na	0.1	*	S	S	S	S	S	S	S
Temporary resident visa for work (initial)	na	0.2	0.3	0.3	1.0	S	0.4	1.7	0.5	1.8
Temporary resident visa for study/training (initial)	na	0.2	0.3	0.4	1.0	0.7	0.5	1.7	1.0	2.2
Temporary resident visa as a dependent (initial)	na	0.1	0.2	0.2	0.8	S	1.0	S	0.4	S
Other temporary resident visa (initial)	na	0.1	0.1	0.2	S	S	0.7	S	0.9	S
Dual citizen?										
Yes	0.1	0.4	0.5	1.1	2.1	1.8	2.2	2.0	2.6	3.3
No	0.1	0.4	0.5	1.1	2.1	1.8	2.2	2.0	2.6	3.3
Place of postsecondary education										
All degrees earned in U.S.	0.1	0.5	0.7	1.2	2.3	2.5	2.7	2.8	2.9	5.2
Degrees earned abroad and in U.S.	0.1	0.4	0.5	0.7	1.5	1.6	1.6	1.9	1.8	2.9
All degrees earned abroad	0.1	0.5	0.7	1.2	2.5	2.2	2.5	2.7	3.0	5.6
Highest degree of educational attainment										
Bachelor's	0.2	0.5	0.7	1.1	2.2	2.5	2.6	2.4	3.2	5.8
Master's	0.2	0.4	0.6	1.0	1.9	2.3	2.1	1.9	2.5	4.8
Doctorate	0.1	0.2	0.2	0.5	0.6	0.5	1.3	0.8	0.6	2.8
Professional	0.1	0.3	0.3	0.7	1.1	1.3	1.1	1.6	2.2	1.8
Highest degree field										
S&E field	0.3	0.5	0.7	1.2	2.3	2.5	2.6	2.8	2.9	5.2
Biological/agricultural/environmental life sciences	0.2	0.3	0.4	0.6	1.1	1.0	1.9	1.5	1.3	2.5
Computer and mathematical sciences	0.1	0.3	0.5	0.6	1.2	2.0	1.7	1.2	1.9	3.4
Physical and related sciences	0.1	0.2	0.3	0.5	0.8	1.0	0.7	0.9	0.8	1.1
Social and related sciences	0.3	0.4	0.5	1.2	2.3	2.0	1.8	2.5	2.3	4.9
Engineering	0.1	0.4	0.5	1.0	2.0	1.4	1.7	1.9	2.0	2.7
S&E-related field	0.2	0.4	0.6	1.0	2.2	2.2	2.5	2.5	2.6	3.8
Non-S&E field	0.2	0.4	0.5	0.9	1.6	1.9	1.9	2.0	2.3	5.0

TABLE A-30. Standard errors for birthplace of scientists and engineers, by region and other selected characteristics: 2003
(Percent)

Characteristic	U.S. citizen at birth	Place of immigrants' birth								
		All immigrants	Asia	Europe	South America	Caribbean	Africa	North America (except United States)	Central America (including Mexico)	Other[a]
Occupation										
S&E occupation	0.2	0.4	0.6	0.9	1.7	1.8	1.9	2.0	2.1	3.9
Biological, agricultural, and other life scientists	0.1	0.1	0.2	0.3	0.4	0.4	0.5	1.0	0.6	1.2
Computer and mathematical scientists	0.1	0.3	0.5	0.7	1.1	1.7	1.5	1.4	1.6	2.5
Physical and related scientists	0.1	0.1	0.1	0.2	0.4	0.3	0.3	0.4	0.5	0.7
Social and related scientists	0.1	0.1	0.1	0.3	0.4	0.3	0.4	0.5	0.5	0.8
Engineers	0.1	0.2	0.3	0.5	0.9	0.7	0.9	1.6	1.1	1.3
S&E-related occupation	0.2	0.4	0.6	1.0	2.0	2.1	2.2	2.3	2.0	4.6
Non-S&E occupation	0.3	0.5	0.6	1.2	2.4	2.8	2.4	2.5	3.1	6.0
Not working, looking for work	0.1	0.2	0.3	0.5	0.8	0.9	0.5	0.7	0.7	0.9
Not in labor force	0.2	0.4	0.5	0.9	1.3	1.6	1.3	1.8	1.7	2.1
Most important reason for coming to U.S.										
Family-related reasons	na	0.6	0.7	1.3	2.2	2.5	2.2	2.5	3.0	5.7
Educational opportunities	na	0.5	0.7	0.9	2.3	1.8	2.4	1.6	2.6	3.9
Job or economic opportunities	na	0.4	0.6	1.0	2.1	1.5	2.0	2.5	2.4	4.1
Scientific or professional infrastructure	na	0.2	0.2	0.4	1.0	0.5	1.0	1.7	0.8	1.5
Other	na	0.3	0.3	0.8	1.3	2.2	1.3	0.6	1.4	3.9

na = not applicable, question was not asked; * = standard error is not calculated when estimate is less than .05; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

[a] Other includes immigrants born in United States or its territories, Oceania, or abroad (not specified).

NOTES: See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Immigrants are temporary residents, permanent residents, or naturalized U.S. citizens. It is possible for immigrants to be born in the United States without claiming citizenship; it is also possible for foreign-born individuals to be considered native-born U.S. citizens if they were born abroad to American citizen parents. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand; standard errors of percents are rounded up to the nearest tenth.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.

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