Appendix table 6-1

Employed scientists and engineers, by broad occupation, highest degree level, sex, and race/ethnicity: 1993 and 1999

Highest degree level and occupation	All employed scientists and engineers[a]	Males	Females	Whites, non-Hispanic	Asians/Pacific Islanders	Blacks, non-Hispanic	Hispanics	American Indians/Alaskan Natives
1993: all degree levels,[b] all occupations	9,793,500	6,729,500	3,064,100	8,303,300	650,800	503,100	306,800	25,000
S&E occupations	3,303,400	2,547,900	755,500	2,777,500	299,300	119,400	97,200	7,600
Science occupations	1,912,300	1,276,400	635,900	1,612,100	160,500	79,800	53,800	4,800
Computer/math scientists	991,500	686,100	305,400	827,700	90,600	44,500	26,300	1,800
Life and related scientists	322,300	212,600	109,700	269,300	31,300	10,400	10,100	700
Physical and related scientists	280,900	221,100	59,900	237,600	27,200	8,000	7,100	800
Social and related scientists	317,600	156,600	160,900	277,500	11,400	16,800	10,300	1,600
Engineering occupations	1,391,100	1,271,500	119,600	1,165,400	138,800	39,700	43,400	2,800
Non-S&E occupations	6,490,100	4,181,600	2,308,600	5,525,800	351,500	383,700	209,600	17,400
Bachelor's, all occupations	5,727,200	3,876,700	1,850,500	4,866,300	330,900	320,100	191,500	15,200
S&E occupations	1,980,300	1,553,200	427,200	1,700,100	127,600	83,400	62,600	4,600
Science occupations	1,007,000	664,900	342,100	859,100	61,000	52,000	31,100	2,600
Computer/math scientists	676,200	457,700	218,500	574,800	45,300	34,500	19,800	1,300
Life and related scientists	131,600	82,200	49,500	114,200	6,100	5,800	4,900	300
Physical and related scientists	130,700	96,900	33,700	113,500	7,300	5,700	3,500	500
Social and related scientists	68,500	28,200	40,300	56,600	2,300	6,000	3,000	600
Engineering occupations	973,300	888,200	85,100	841,000	66,600	31,400	31,500	2,000
Non-S&E occupations	3,746,900	2,323,600	1,423,300	3,166,200	203,300	236,700	128,900	10,600
Master's, all occupations	2,575,600	1,688,100	887,500	2,155,400	210,700	129,400	73,100	6,300
S&E occupations	891,300	657,300	234,000	725,900	113,300	26,000	24,200	1,500
Science occupations	541,400	338,200	203,300	449,400	58,900	18,800	13,500	700
Computer/math scientists	263,600	185,400	78,200	212,100	37,600	8,300	5,300	300
Life and related scientists	70,400	40,500	29,900	57,400	8,300	2,700	1,900	S
Physical and related scientists	72,600	55,600	17,000	61,100	8,200	1,200	1,900	S
Social and related scientists	134,900	56,600	78,200	118,800	4,700	6,600	4,400	300
Engineering occupations	349,900	319,100	30,800	276,600	54,400	7,200	10,700	700
Non-S&E occupations	1,684,300	1,030,800	653,500	1,429,500	97,500	103,300	48,800	4,800
Doctorate, all occupations	634,800	499,400	135,400	520,800	74,300	20,500	16,800	2,200
S&E occupations	395,600	311,500	84,100	321,300	54,800	9,000	9,100	1,400
Science occupations	330,500	250,000	80,600	275,900	37,400	8,000	8,000	1,300
Computer/math scientists	48,700	40,400	8,300	38,500	7,600	1,200	1,300	200
Life and related scientists	98,100	73,300	24,800	79,900	13,900	1,500	2,400	300
Physical and related scientists	77,000	68,300	8,700	62,400	11,600	1,100	1,700	200
Social and related scientists	106,700	68,000	38,700	95,100	4,300	4,100	2,600	700
Engineering occupations	65,000	61,500	3,500	45,400	17,500	1,000	1,100	100
Non-S&E occupations	239,200	187,900	51,300	199,500	19,500	11,500	7,800	700

See explanatory information and SOURCE at end of table.

Appendix table 6-1
Employed scientists and engineers, by broad occupation, highest degree level, sex, and race/ethnicity: 1993 and 1999

Highest degree level and occupation	All employed scientists and engineers[a]	Males	Females	Whites, non-Hispanic	Asians/Pacific Islanders	Blacks, non-Hispanic	Hispanics	American Indians/Alaskan Natives
1999: all degree levels,[b] all occupations	10,981,600	7,171,500	3,810,200	9,124,600	805,900	597,100	417,200	33,300
S&E occupations	3,540,800	2,705,000	835,800	2,896,600	390,500	121,600	120,900	10,600
Science occupations	2,170,500	1,464,800	705,800	1,774,200	233,900	84,000	71,800	6,500
Computer/math scientists	1,167,400	850,600	316,700	922,200	153,600	51,400	37,600	2,700
Life and related scientists	341,900	217,500	124,400	285,100	37,700	6,600	10,900	1,500
Physical and related scientists	297,900	229,400	68,400	252,500	27,800	8,800	7,800	900
Social and related scientists	363,400	167,300	196,200	314,400	14,800	17,200	15,500	1,500
Engineering occupations	1,370,300	1,240,200	130,000	1,122,400	156,600	37,700	49,100	4,100
Non-S&E occupations	7,440,800	4,466,400	2,974,300	6,228,100	415,400	475,500	296,300	22,700
Bachelor's, all occupations	6,350,100	4,084,400	2,265,700	5,300,500	394,800	362,000	268,800	22,000
S&E occupations	1,994,400	1,564,700	429,700	1,680,900	158,300	73,900	74,800	6,200
Science occupations	1,087,100	744,300	342,800	908,100	87,700	46,600	41,500	3,100
Computer/math scientists	740,500	538,900	201,600	612,200	65,400	34,200	27,000	1,700
Life and related scientists	135,500	76,900	58,600	117,100	9,800	2,000	5,700	900
Physical and related scientists	139,600	101,700	38,000	120,600	8,400	5,800	4,600	S
Social and related scientists	71,400	26,800	44,600	58,300	4,000	4,600	4,200	S
Engineering occupations	907,400	820,400	86,900	772,800	70,600	27,300	33,300	3,100
Non-S&E occupations	4,355,700	2,519,700	1,836,000	3,619,600	236,500	288,100	194,000	15,800
Master's, all occupations	2,982,000	1,871,200	1,110,800	2,440,500	266,600	168,600	98,000	7,700
S&E occupations	1,032,100	751,200	280,900	807,200	153,000	35,900	32,800	3,000
Science occupations	655,500	411,400	244,200	516,000	91,100	27,300	19,100	2,100
Computer/math scientists	354,100	253,700	100,500	256,200	72,900	15,200	8,800	900
Life and related scientists	72,500	44,000	28,500	61,200	7,100	2,200	1,800	300
Physical and related scientists	73,000	53,700	19,300	62,300	7,100	1,800	1,400	400
Social and related scientists	155,900	60,000	95,900	136,200	4,000	8,100	7,100	500
Engineering occupations	376,500	339,800	36,700	291,300	62,000	8,600	13,600	900
Non-S&E occupations	1,949,900	1,120,000	829,900	1,633,200	113,600	132,700	65,300	4,700
Doctorate, all occupations	736,700	552,200	184,500	583,300	103,800	25,800	21,200	2,000
S&E occupations	484,100	368,900	115,200	381,600	77,000	11,000	12,900	1,400
Science occupations	399,900	290,900	109,100	325,100	53,100	9,300	11,000	1,300
Computer/math scientists	67,100	54,900	12,200	49,500	14,500	1,400	1,600	S
Life and related scientists	121,100	86,200	34,900	95,600	19,500	2,100	3,500	400
Physical and related scientists	84,900	73,700	11,200	69,200	12,300	1,200	1,800	300
Social and related scientists	126,900	76,100	50,800	110,800	6,800	4,500	4,100	600
Engineering occupations	84,200	78,000	6,200	56,500	23,900	1,700	1,900	100
Non-S&E occupations	252,600	183,400	69,300	201,700	26,800	14,800	8,300	600

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes "other" race/ethnicity not shown separately.

[b]Total includes first-professional degrees not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding.

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

Appendix table 6-2

Employed scientists and engineers in the United States, by occupation, race/ethnicity, and sex: 1999

Occupation	Total[a]		White		Asian/Pacific Islander		Black		Hispanic		American Indian/ Alaskan Native	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
All occupations	7,171,500	3,810,200	6,083,500	3,041,100	536,700	269,200	284,100	313,000	243,800	173,400	20,900	12,400
S&E occupations	2,705,000	835,800	2,236,600	660,000	298,100	92,400	75,200	46,400	86,700	34,200	7,800	2,700
Computer/mathematical scientists	850,600	316,700	684,400	237,800	109,500	44,000	29,700	21,700	25,600	12,000	1,400	1,300
Computer/information scientists	778,800	279,300	624,900	208,200	102,400	41,100	26,400	18,600	23,800	10,200	1,300	1,200
Mathematical scientists	24,000	12,300	19,400	9,600	2,400	1,300	1,400	700	700	800	S	S
Postsecondary computer/mathematics teachers	47,800	25,100	40,000	20,000	4,700	1,700	1,900	2,400	1,200	1,000	100	100
Life and related scientists	217,500	124,400	184,300	100,900	22,300	15,300	3,800	2,800	6,000	4,900	1,000	500
Agricultural/food scientists	30,800	8,900	27,300	7,500	2,000	500	1,100	100	400	800	S	S
Biological scientists	119,800	86,800	96,200	68,300	17,000	13,200	1,700	1,700	4,100	3,300	700	300
Environmental life scientists	15,600	4,200	15,300	3,800	S	S	S	S	S	S	200	S
Postsecondary life science teachers	51,300	24,500	45,500	21,200	3,300	1,400	1,000	1,100	1,500	700	100	100
Physical and related scientists	229,400	68,400	197,500	55,000	19,500	8,300	5,800	3,000	5,900	1,900	700	200
Chemists	84,800	36,900	69,100	27,300	9,100	6,500	3,800	1,900	2,800	1,300	100	S
Earth scientists/geologists/oceanographers	59,800	13,000	54,500	12,000	3,100	200	400	400	1,600	300	200	S
Physicists and astronomers	27,400	3,000	23,900	2,300	2,700	300	400	400	300	S	100	S
Other physical scientists	17,000	5,200	15,500	4,300	800	600	300	S	300	S	S	S
Postsecondary physical science teachers	40,400	10,300	34,500	9,100	3,800	700	800	200	1,000	300	200	S
Social and related scientists	167,300	196,200	146,900	167,500	7,500	7,300	6,600	10,600	5,200	10,300	1,000	400
Economists	23,800	11,600	21,200	8,400	1,600	2,100	500	200	500	900	S	S
Political scientists	5,600	6,000	4,800	4,600	S	S	S	S	500	800	S	S
Psychologists	71,900	125,100	65,700	110,400	700	2,300	3,100	6,200	2,200	5,900	200	300
Sociologists/anthropologists	8,400	9,200	7,400	8,000	200	300	600	600	100	300	S	S
Other social scientists	4,900	8,700	3,900	5,800	600	1,000	S	1,100	S	800	S	S
Postsecondary social science teachers	52,600	35,600	44,000	30,300	4,200	1,600	2,200	2,000	1,400	1,600	700	100

See explanatory information and SOURCE at end of table.

Appendix table 6-2

Employed scientists and engineers in the United States, by occupation, race/ethnicity, and sex: 1999

Occupation	Total[a]		White		Asian/Pacific Islander		Black		Hispanic		American Indian/ Alaskan Native	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Engineers	1,240,200	130,000	1,023,500	98,900	139,100	17,500	29,400	8,200	44,000	5,100	3,700	300
Aerospace engineers	62,800	4,600	53,300	3,600	6,600	800	1,500	100	1,200	100	100	S
Chemical engineers	67,200	12,700	54,000	9,000	9,000	2,200	1,300	1,200	2,700	300	200	S
Civil engineers	201,200	22,500	163,900	17,400	22,500	3,100	4,200	600	9,800	1,200	700	S
Electrical engineers	339,700	22,600	266,900	14,900	50,000	5,200	8,600	1,800	13,300	700	800	S
Industrial engineers	68,800	12,300	58,900	10,100	4,600	500	2,400	1,000	2,600	700	400	S
Mechanical engineers	251,200	14,600	211,600	12,100	25,300	1,300	6,000	1,000	7,100	100	1,000	S
Other engineers	221,900	36,800	194,300	28,500	16,200	3,900	4,400	2,400	6,300	1,700	600	200
Postsecondary engineering teachers	27,500	3,900	20,500	3,300	5,100	400	1,100	100	800	200	S	S
Non-S&E occupations	4,466,400	2,974,300	3,846,900	2,381,100	238,600	176,800	208,900	266,600	157,100	139,200	13,000	9,700
Managers and administrators	1,429,100	606,500	1,258,000	482,900	71,400	35,000	57,000	58,900	38,400	27,700	3,500	2,000
Health-related occupations	465,400	382,700	391,800	306,800	37,900	31,900	17,300	26,500	17,300	16,300	800	700
Teachers, except S&E postsecondary teachers	258,100	425,600	221,300	352,300	5,800	12,700	17,300	38,900	12,800	20,400	900	1,100
Non-S&E postsecondary teachers	68,900	55,100	56,300	45,300	5,800	3,900	3,900	3,700	2,300	1,900	300	300
Social services/related occupations	183,600	292,200	143,300	219,800	8,100	5,900	19,900	45,000	11,000	19,800	1,400	1,700
Technologists and technicians	274,500	112,600	224,200	81,700	30,400	16,300	11,200	10,600	7,900	3,600	800	S
Sales and marketing occupations	639,800	304,000	559,700	257,300	33,800	19,000	24,200	17,200	19,700	9,600	2,000	1,000
Art, humanities, and related occupations	81,600	83,300	73,300	73,800	3,000	3,700	1,800	3,500	3,100	2,300	S	S
Other non-S&E occupations	1,065,500	712,300	919,000	561,200	42,500	48,500	56,300	62,100	44,500	37,600	3,100	2,600

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes "other" race/ethnicity not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding.

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

Appendix table 6-3

Employed scientists and engineers, by broad occupation, highest degree level, disability status, and type of disability: 1993 and 1999

Highest degree level and occupation	All employed scientists and engineers	Persons without disabilities	Persons with disabilities				
			Any disability	Seeing	Hearing	Walking	Lifting
1993: all degree levels,[a] all occupations	9,793,500	9,245,000	548,500	228,100	240,300	76,400	115,200
S&E occupations	3,303,400	3,137,300	166,100	68,600	77,700	18,800	29,400
Science occupations	1,912,300	1,820,400	91,900	38,500	36,500	12,900	20,900
Computer/math scientists	991,500	942,300	49,200	21,600	19,600	7,400	9,900
Life and related scientists	322,300	307,500	14,700	4,800	7,700	1,500	2,800
Physical and related scientists	280,900	269,700	11,200	5,000	4,900	1,000	2,100
Social and related scientists	317,600	300,900	16,700	7,100	4,400	3,100	6,000
Engineering occupations	1,391,100	1,317,000	74,100	30,100	41,200	5,800	8,500
Non-S&E occupations	6,490,100	6,107,700	382,500	159,500	162,600	57,600	85,800
Bachelor's, all occupations	5,727,200	5,393,800	333,400	142,000	151,200	41,200	61,300
S&E occupations	1,980,300	1,878,000	102,300	42,500	50,500	10,500	15,000
Science occupations	1,007,000	959,600	47,500	20,300	20,100	6,000	8,600
Computer/math scientists	676,200	642,700	33,500	15,600	14,000	4,600	4,800
Life and related scientists	131,600	126,000	5,600	1,600	3,300	300	900
Physical and related scientists	130,700	125,800	4,800	1,900	2,400	300	1,000
Social and related scientists	68,500	65,000	3,500	1,300	S	800	1,900
Engineering occupations	973,300	918,500	54,800	22,200	30,400	4,500	6,400
Non-S&E occupations	3,746,900	3,515,800	231,100	99,500	100,700	30,700	46,300
Master's, all occupations	2,575,600	2,429,400	146,100	59,100	59,700	22,900	38,300
S&E occupations	891,300	848,700	42,600	18,800	17,500	5,000	10,000
Science occupations	541,400	514,500	26,900	11,900	8,900	4,200	8,600
Computer/math scientists	263,600	250,300	13,300	5,400	4,600	2,300	4,500
Life and related scientists	70,400	66,600	3,800	1,600	1,500	500	1,000
Physical and related scientists	72,600	69,500	3,000	1,600	1,100	200	600
Social and related scientists	134,900	128,000	6,800	3,300	1,600	1,200	2,500
Engineering occupations	349,900	334,200	15,700	6,900	8,600	800	1,500
Non-S&E occupations	1,684,300	1,580,700	103,500	40,300	42,300	17,900	28,300
Doctorate, all occupations	634,800	602,300	32,500	12,300	14,400	4,700	7,300
S&E occupations	395,600	376,000	19,500	7,000	8,900	2,900	3,800
Science occupations	330,500	314,400	16,100	6,000	6,900	2,500	3,200
Computer/math scientists	48,700	46,300	2,400	600	1,000	500	700
Life and related scientists	98,100	93,900	4,200	1,200	2,300	500	600
Physical and related scientists	77,000	73,700	3,300	1,500	1,300	400	400
Social and related scientists	106,700	100,500	6,200	2,600	2,200	1,100	1,500
Engineering occupations	65,000	61,600	3,400	1,000	2,000	400	600
Non-S&E occupations	239,200	226,200	13,000	5,400	5,500	1,800	3,500

See explanatory information and SOURCE at end of table.

Appendix table 6-3

Employed scientists and engineers, by broad occupation, highest degree level, disability status, and type of disability: 1993 and 1999

Highest degree level and occupation	All employed scientists and engineers	Persons without disabilities	Persons with disabilities				
			Any disability	Seeing	Hearing	Walking	Lifting
1999: all degree levels,[a] all occupations	10,981,600	10,237,000	744,600	345,700	311,600	101,400	148,200
S&E occupations	3,540,800	3,334,900	206,000	89,400	95,500	26,700	38,600
Science occupations	2,170,500	2,045,400	125,200	54,400	52,200	16,900	26,700
Computer/math scientists	1,167,400	1,099,400	67,900	32,200	25,800	8,100	14,400
Life and related scientists	341,900	321,700	20,200	8,000	11,500	2,000	2,600
Physical and related scientists	297,900	281,400	16,500	6,600	7,400	2,500	3,300
Social and related scientists	363,400	342,900	20,600	7,600	7,500	4,400	6,400
Engineering occupations	1,370,300	1,289,500	80,800	35,000	43,200	9,900	11,900
Non-S&E occupations	7,440,800	6,902,200	538,600	256,300	216,100	74,600	109,600
Bachelor's, all occupations	6,350,100	5,906,800	443,300	208,200	191,400	53,000	80,800
S&E occupations	1,994,400	1,877,600	116,800	54,500	55,600	12,300	18,600
Science occupations	1,087,100	1,027,300	59,700	28,700	25,000	5,800	10,500
Computer/math scientists	740,500	696,900	43,600	21,200	17,500	5,100	7,900
Life and related scientists	135,500	127,500	8,000	4,000	4,500	S	S
Physical and related scientists	139,600	132,900	6,700	3,100	2,400	600	1,700
Social and related scientists	71,400	70,100	1,400	S	S	S	S
Engineering occupations	907,400	850,300	57,100	25,800	30,600	6,500	8,100
Non-S&E occupations	4,355,700	4,029,200	326,400	153,700	135,800	40,800	62,300
Master's, all occupations	2,982,000	2,769,400	212,600	97,700	82,500	33,200	48,600
S&E occupations	1,032,100	975,200	56,800	21,800	25,200	8,600	13,300
Science occupations	655,500	617,800	37,800	14,500	15,000	6,100	10,200
Computer/math scientists	354,100	334,200	19,900	9,100	6,500	2,400	5,600
Life and related scientists	72,500	68,800	3,800	S	2,700	500	S
Physical and related scientists	73,000	67,900	5,100	1,700	2,500	1,100	1,000
Social and related scientists	155,900	146,900	9,000	3,200	3,300	2,000	3,000
Engineering occupations	376,500	357,500	19,100	7,400	10,200	2,500	3,000
Non-S&E occupations	1,949,900	1,794,100	155,700	75,900	57,400	24,600	35,300
Doctorate, all occupations	736,700	687,500	49,200	21,500	22,000	8,200	10,000
S&E occupations	484,100	453,200	30,900	12,700	14,000	5,100	5,900
Science occupations	399,900	373,700	26,300	11,000	11,600	4,300	5,200
Computer/math scientists	67,100	62,700	4,400	2,000	1,700	500	900
Life and related scientists	121,100	113,700	7,400	3,300	3,900	900	900
Physical and related scientists	84,900	80,100	4,800	1,700	2,500	700	700
Social and related scientists	126,900	117,200	9,700	4,000	3,400	2,200	2,700
Engineering occupations	84,200	79,600	4,600	1,800	2,500	800	800
Non-S&E occupations	252,600	234,300	18,300	8,800	7,900	3,100	4,100

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes first-professional degrees not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding.

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

Appendix table 6-4
Employment status of scientists and engineers, by age group, sex, race/ethnicity, and disability status: 1999

Age group, sex, race/ethnicity,[a] and disability status	Total	Employed				Not employed/ seeking employment	Retired	Not employed/ not seeking employment
		Total	Full-time	Part-time	Postdoctoral appointment			
All ages	13,050,800	10,981,600	9,770,200	1,187,400	24,000	194,400	1,092,900	781,900
Male	8,304,100	7,171,500	6,698,500	458,600	14,400	117,700	823,600	191,400
Female	4,746,700	3,810,200	3,071,700	728,800	9,700	76,700	269,300	590,500
White, non-Hispanic	10,931,000	9,124,600	8,080,700	1,028,500	15,400	153,600	994,000	658,800
Asian/Pacific Islander	919,900	805,900	734,300	64,800	6,800	16,200	34,300	63,500
Black, non-Hispanic	677,500	597,100	548,400	48,000	700	12,500	44,500	23,300
Hispanic	476,100	417,200	373,000	43,100	1,100	11,100	16,600	31,200
American Indian/Alaskan Native	42,000	33,300	30,400	2,800	100	1,000	3,400	4,400
Without disabilities	11,943,400	10,237,000	9,130,700	1,082,800	23,500	167,400	845,700	693,400
With disabilities	1,107,300	744,600	639,500	104,600	500	27,000	247,200	88,500
29 or younger	1,772,200	1,534,200	1,365,300	166,900	2,000	37,400	S	199,800
Male	880,700	777,300	707,700	68,600	1,000	17,800	S	85,000
Female	891,500	756,800	657,600	98,200	1,000	19,500	S	114,800
White, non-Hispanic	1,361,100	1,190,600	1,057,400	131,800	1,500	26,600	S	143,300
Asian/Pacific Islander	183,200	147,200	134,000	12,800	500	3,900	S	31,700
Black, non-Hispanic	109,400	95,800	87,300	8,400	S	3,600	S	10,100
Hispanic	109,200	93,100	79,900	13,200	S	3,100	S	13,000
American Indian/Alaskan Native	9,400	7,400	6,700	700	S	S	S	1,800
Without disabilities	1,734,500	1,501,400	1,335,300	164,100	2,000	36,700	S	195,500
With disabilities	37,700	32,700	29,900	2,800	S	600	S	4,300
30 to 39	2,949,800	2,718,200	2,470,700	229,800	17,600	33,300	3,400	195,000
Male	1,750,300	1,706,200	1,646,700	48,800	10,700	15,900	S	28,000
Female	1,199,500	1,012,000	824,000	181,000	7,000	17,400	3,100	167,000
White, non-Hispanic	2,395,800	2,202,400	1,994,600	196,400	11,300	23,400	3,200	166,800
Asian/Pacific Islander	257,100	239,200	218,000	16,200	5,000	4,700	S	13,000
Black, non-Hispanic	150,600	142,600	135,300	6,800	400	2,600	S	5,400
Hispanic	136,300	125,200	114,900	9,500	800	2,500	S	8,600
American Indian/Alaskan Native	8,800	8,000	7,100	700	100	S	S	800
Without disabilities	2,860,100	2,640,300	2,399,700	223,300	17,400	30,400	2,800	186,500
With disabilities	89,700	77,800	71,000	6,500	300	2,900	S	8,500
40 to 49	3,684,600	3,426,400	3,097,900	324,700	3,700	44,800	16,700	196,700
Male	2,310,900	2,250,200	2,181,300	66,500	2,400	25,700	7,400	27,500
Female	1,373,700	1,176,100	916,600	258,200	1,300	19,100	9,300	169,200
White, non-Hispanic	3,108,700	2,881,400	2,593,500	285,800	2,100	37,000	14,200	176,000
Asian/Pacific Islander	237,000	223,200	204,400	17,500	1,200	3,100	1,200	9,500
Black, non-Hispanic	197,700	191,300	180,500	10,600	200	2,000	1,000	3,400
Hispanic	128,700	119,500	109,300	10,000	200	2,600	S	6,400
American Indian/Alaskan Native	10,400	9,300	8,500	700	S	200	S	1,000
Without disabilities	3,412,300	3,189,700	2,881,100	305,000	3,600	37,100	14,400	171,100
With disabilities	272,200	236,700	216,800	19,700	100	7,700	2,300	25,600

See explanatory information and SOURCE at end of table.

Appendix table 6-4
Employment status of scientists and engineers, by age group, sex, race/ethnicity, and disability status: 1999

Age group, sex, race/ethnicity,[a] and disability status	Total	Employed				Not employed/ seeking employment	Retired	Not employed/ not seeking employment
		Total	Full-time	Part-time	Postdoctoral appointment			
50 or older	4,644,200	3,302,900	2,836,300	465,900	700	78,900	1,072,000	190,400
Male	3,362,200	2,437,800	2,162,800	274,600	300	58,200	815,500	50,800
Female	1,282,000	865,200	673,500	191,300	300	20,700	256,600	139,600
White, non-Hispanic	4,065,500	2,850,200	2,435,200	414,400	600	66,500	976,100	172,700
Asian/Pacific Islander	242,700	196,300	177,900	18,400	S	4,500	32,700	9,200
Black, non-Hispanic	219,800	167,400	145,300	22,100	S	4,300	43,500	4,500
Hispanic	102,000	79,400	68,900	10,400	S	3,000	16,400	3,300
American Indian/Alaskan Native	13,300	8,700	8,100	600	S	500	3,400	800
Without disabilities	3,936,500	2,905,500	2,514,600	390,300	600	63,100	827,600	140,300
With disabilities	707,700	397,400	321,700	75,600	100	15,800	244,400	50,100

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes "other" race/ethnicity not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding.

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

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002

Appendix table 6-5

Scientists and engineers who are unemployed or out of the labor force, by reason for not working, sex, race/ethnicity, and disability status: 1999

Reason for not working	All scientists and engineers	Sex		Race/ethnicity[a]					Disability status	
		Male	Female	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Without disabilities	With disabilities
	Number									
Total not working	2,069,200	1,132,600	936,600	1,806,400	114,000	80,400	58,900	8,700	1,706,400	362,700
Family responsibilities	368,900	31,200	337,700	320,700	22,300	8,900	13,600	2,800	341,900	27,000
Chronic illness or permanent disability	139,900	81,300	58,600	118,200	4,200	11,200	5,200	1,000	44,600	95,300
Suitable job not available	121,400	65,700	55,700	94,700	12,300	6,100	7,700	600	106,900	14,500
Did not need or want to work	454,200	130,200	324,000	404,500	26,400	9,700	12,600	1,000	416,300	37,900
Retired	1,115,800	841,800	274,000	1,014,500	35,100	45,700	17,300	3,400	863,100	252,700
Student	248,600	117,700	130,900	177,000	38,700	14,500	17,000	1,500	239,100	9,500
On layoff from a job	81,200	57,600	23,500	64,700	6,400	5,100	4,500	500	67,900	13,200
Other reason	70,200	26,300	43,900	57,000	7,600	2,900	2,200	600	62,700	7,500
	Percent									
Total not working	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Family responsibilities	17.8	2.8	36.1	17.8	19.5	11.0	23.0	32.0	20.0	7.5
Chronic illness or permanent disability	6.8	7.2	6.3	6.5	3.7	14.0	8.8	11.3	2.6	26.3
Suitable job not available	5.9	5.8	5.9	5.2	10.8	7.6	13.0	7.0	6.3	4.0
Did not need or want to work	22.0	11.5	34.6	22.4	23.2	12.1	21.4	11.5	24.4	10.4
Retired	53.9	74.3	29.3	56.2	30.8	56.8	29.3	38.8	50.6	69.7
Student	12.0	10.4	14.0	9.8	33.9	18.0	28.9	17.2	14.0	2.6
On layoff from a job	3.9	5.1	2.5	3.6	5.6	6.4	7.7	5.3	4.0	3.6
Other reason	3.4	2.3	4.7	3.2	6.7	3.6	3.7	6.7	3.7	2.1

[a]Total includes "other" race/ethnicity not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding and because respondents could select more than one reason.

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

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002

Appendix table 6-6

Preference for full-time employment and reasons for working part time of scientists and engineers employed part time, by occupation, sex, race/ethnicity, and disability status: 1999

Occupation, preference for full-time employment, and reason for part-time employment	Total employed part time	Sex		Race/ethnicity[a]					Disability status	
		Male	Female	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Without disabilities	With disabilities
All occupations	1,187,400	458,600	728,800	1,028,500	64,800	48,000	43,100	2,800	1,082,800	104,600
S&E occupation	272,500	134,600	137,900	236,900	17,000	8,300	9,500	700	251,700	20,700
Non-S&E occupation	914,900	324,000	590,900	791,600	47,900	39,700	33,700	2,000	831,000	83,900
Preference for full-time employment										
Did not want full-time employment	1,057,800	390,400	667,400	926,300	52,600	39,900	36,500	2,400	967,900	90,000
S&E occupation	241,800	114,800	127,000	211,600	15,000	7,200	7,400	600	224,300	17,400
Non-S&E occupation	816,100	275,700	540,400	714,700	37,700	32,700	29,100	1,800	743,600	72,500
Wanted full-time employment	129,500	68,100	61,400	102,200	12,200	8,100	6,600	400	114,900	14,600
S&E occupation	30,700	19,800	10,900	25,400	2,000	1,100	2,000	S	27,400	3,300
Non-S&E occupation	98,800	48,300	50,500	76,900	10,200	6,900	4,600	S	87,500	11,400
Reasons for part-time employment										
Family responsibilities	401,600	53,500	348,100	348,800	26,300	11,800	13,900	800	382,900	18,800
S&E occupation	76,400	14,200	62,200	67,200	5,100	1,200	2,900	S	73,600	2,800
Non-S&E occupation	325,200	39,300	285,900	281,600	21,200	10,600	11,000	800	309,300	15,900
Chronic illness or permanent disability	45,000	19,800	25,200	38,000	2,200	1,600	3,100	S	27,800	17,200
S&E occupation	6,500	3,100	3,500	6,000	200	S	400	S	3,200	3,400
Non-S&E occupation	38,500	16,800	21,700	32,100	2,100	1,500	2,700	S	24,700	13,800
Did not need or want to work full time	635,400	206,800	428,600	563,100	30,500	21,600	18,700	1,300	596,400	39,000
S&E occupation	127,100	54,300	72,800	111,600	7,500	3,800	3,800	300	120,100	7,000
Non-S&E occupation	508,300	152,400	355,900	451,600	23,000	17,800	14,900	1,000	476,400	31,900
Suitable full-time job not available	134,300	63,200	71,100	107,300	11,500	8,000	6,900	600	122,000	12,300
S&E occupation	30,800	18,800	12,100	25,000	3,200	1,000	1,500	S	28,400	2,400
Non-S&E occupation	103,500	44,400	59,000	82,300	8,300	7,000	5,400	500	93,600	9,800
Student	200,600	91,400	109,200	154,700	18,900	11,000	15,300	800	195,700	4,900
S&E occupation	80,700	43,300	37,400	62,900	8,800	4,500	4,100	S	79,000	1,700
Non-S&E occupation	119,900	48,100	71,800	91,800	10,100	6,500	11,100	400	116,700	3,200
Retired	248,200	186,800	61,400	223,500	7,800	12,400	4,100	300	203,100	45,100
S&E occupation	59,300	51,300	8,000	54,800	2,100	1,400	900	S	50,000	9,300
Non-S&E occupation	188,900	135,400	53,400	168,700	5,700	11,000	3,100	S	153,100	35,800
Other reason	94,500	42,100	52,400	78,100	6,700	5,700	3,600	300	84,500	10,000
S&E occupation	19,800	11,400	8,400	16,300	1,700	1,000	700	100	17,700	2,100
Non-S&E occupation	74,700	30,700	44,000	61,800	5,000	4,700	3,000	S	66,800	7,800

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes "other" race/ethnicity not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding and because respondents could select more than one reason.

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

Appendix table 6-7

Employed scientists and engineers in the United States, by occupation, highest degree, and sex: 1999

Occupation	All degrees[a]			Bachelor's			Master's			Doctorate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All occupations	10,981,600	7,171,500	3,810,200	6,350,100	4,084,400	2,265,700	2,982,000	1,871,200	1,110,800	736,700	552,200	184,500
S&E occupations	3,540,800	2,705,000	835,800	1,994,400	1,564,700	429,700	1,032,100	751,200	280,900	484,100	368,900	115,200
Computer/mathematical scientists	1,167,400	850,600	316,700	740,500	538,900	201,600	354,100	253,700	100,500	67,100	54,900	12,200
Computer/information scientists	1,058,100	778,800	279,300	715,400	522,900	192,500	304,800	225,300	79,500	32,400	27,600	4,800
Mathematical scientists	36,200	24,000	12,300	12,400	7,500	4,900	16,000	10,600	5,400	7,900	5,800	2,000
Postsecondary computer/ mathematics teachers	73,000	47,800	25,100	12,700	8,600	4,200	33,300	17,700	15,600	26,800	21,400	5,400
Life and related scientists	341,900	217,500	124,400	135,500	76,900	58,600	72,500	44,000	28,500	121,100	86,200	34,900
Agricultural/food scientists	39,700	30,800	8,900	20,100	15,900	4,300	10,400	7,200	3,200	9,200	7,700	1,500
Biological scientists	206,500	119,800	86,800	87,900	43,300	44,600	42,700	24,600	18,100	70,000	47,800	22,100
Environmental life scientists	19,800	15,600	4,200	14,600	11,700	2,900	4,000	3,000	1,000	1,200	900	200
Postsecondary life science teachers	75,800	51,300	24,500	12,800	6,100	6,700	15,500	9,300	6,200	40,800	29,700	11,100
Physical and related scientists	297,900	229,400	68,400	139,600	101,700	38,000	73,000	53,700	19,300	84,900	73,700	11,200
Chemists	121,700	84,800	36,900	70,500	45,400	25,100	23,000	16,300	6,800	28,100	23,100	5,100
Earth scientists/geologists/ oceanographers	72,800	59,800	13,000	38,000	31,700	6,200	24,300	18,600	5,700	10,400	9,300	1,100
Physicists and astronomers	30,400	27,400	3,000	7,200	6,600	600	8,500	7,100	1,400	14,700	13,700	1,000
Other physical scientists	22,200	17,000	5,200	13,100	10,000	3,100	7,300	5,400	1,900	1,800	1,600	200
Postsecondary physical science teachers	50,700	40,400	10,300	10,900	8,000	2,900	9,800	6,300	3,500	29,800	26,000	3,800
Social and related scientists	363,400	167,300	196,200	71,400	26,800	44,600	155,900	60,000	95,900	126,900	76,100	50,800
Economists	35,400	23,800	11,600	11,800	6,800	5,000	15,200	10,700	4,500	8,100	6,300	1,800
Political scientists	11,600	5,600	6,000	5,800	2,900	2,900	4,200	2,000	2,200	1,400	800	700
Psychologists	197,000	71,900	125,100	32,100	8,700	23,400	102,400	30,700	71,700	58,000	30,200	27,700
Sociologists/anthropologists	17,600	8,400	9,200	6,900	3,200	3,700	6,900	3,400	3,500	3,700	1,800	2,000
Other social scientists	13,600	4,900	8,700	4,500	1,400	3,100	5,700	2,300	3,400	2,400	1,200	1,200
Postsecondary social science teachers	88,100	52,600	35,600	10,400	3,800	6,600	21,500	11,000	10,500	53,300	35,800	17,500

See explanatory information and SOURCE at end of table.

Appendix table 6-7

Employed scientists and engineers in the United States, by occupation, highest degree, and sex: 1999

Occupation	All degrees[a]			Bachelor's			Master's			Doctorate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Engineers	1,370,300	1,240,200	130,000	907,400	820,400	86,900	376,500	339,800	36,700	84,200	78,000	6,200
Aerospace engineers	67,400	62,800	4,600	36,300	33,500	2,900	26,300	24,900	1,400	4,600	4,200	300
Chemical engineers	79,900	67,200	12,700	51,100	42,300	8,700	20,700	17,600	3,100	8,100	7,200	800
Civil engineers	223,700	201,200	22,500	160,800	143,800	17,000	57,200	51,900	5,300	5,100	4,900	200
Electrical engineers	362,300	339,700	22,600	233,500	220,000	13,500	109,400	101,500	7,900	18,400	17,300	1,000
Industrial engineers	81,200	68,800	12,300	62,700	53,600	9,100	17,400	14,300	3,000	1,000	900	200
Mechanical engineers	265,800	251,200	14,600	194,300	184,000	10,200	62,000	58,000	4,000	9,100	8,800	300
Other engineers	258,700	221,900	36,800	163,000	139,100	23,900	76,900	65,900	11,000	18,800	16,900	1,800
Postsecondary engineering teachers	31,400	27,500	3,900	5,600	4,100	1,500	6,600	5,700	1,000	19,200	17,700	1,500
Non-S&E occupations	7,440,800	4,466,400	2,974,300	4,355,700	2,519,700	1,836,000	1,949,900	1,120,000	829,900	252,600	183,400	69,300
Managers and administrators	2,035,600	1,429,100	606,500	1,156,800	801,400	355,500	726,600	514,800	211,800	98,400	77,500	20,900
Health-related occupations	848,100	465,400	382,700	304,300	107,100	197,200	100,400	24,300	76,200	25,000	16,600	8,400
Teachers, except S&E postsecondary teachers	683,700	258,100	425,600	361,200	125,200	236,100	304,300	123,000	181,300	11,500	6,700	4,800
Non-S&E postsecondary teachers	124,000	68,900	55,100	18,500	8,800	9,700	41,400	18,600	22,800	53,000	32,100	20,900
Social services/related occupations	475,800	183,600	292,200	215,300	74,800	140,500	239,800	93,000	146,800	12,000	9,600	2,400
Technologists and technicians	387,100	274,500	112,600	309,600	217,100	92,600	65,900	47,400	18,600	9,800	8,800	1,000
Sales and marketing occupations	943,800	639,800	304,000	723,700	479,800	244,000	196,000	141,700	54,300	11,800	9,800	2,000
Art, humanities, and related occupations	164,900	81,600	83,300	107,400	53,800	53,600	48,800	22,900	25,900	6,000	3,300	2,700
Other non-S&E occupations	1,777,800	1,065,500	712,300	1,158,700	651,800	506,800	226,600	134,400	92,200	25,000	18,900	6,200

[a]Total includes first-professional degrees not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding.

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

Appendix table 6-8

Employed scientists and engineers in the United States, by occupation, highest degree, and race/ethnicity: 1999

Occupation	All degrees[a]						Bachelor's					
	Total[b]	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Total[b]	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native
All occupations	10,981,600	9,124,600	805,900	597,100	417,200	33,300	6,350,100	5,300,500	394,800	362,000	268,800	22,000
S&E occupations	3,540,800	2,896,600	390,500	121,600	120,900	10,600	1,994,400	1,680,900	158,300	73,900	74,800	6,200
Computer/mathematical scientists	1,167,400	922,200	153,600	51,400	37,600	2,700	740,500	612,200	65,400	34,200	27,000	1,700
Computer/information scientists	1,058,100	833,200	143,500	45,000	34,000	2,500	715,400	591,100	64,200	32,700	25,700	1,700
Mathematical scientists	36,200	29,000	3,700	2,100	1,500	S	12,400	10,400	S	800	900	S
Postsecondary computer/ mathematics teachers	73,000	60,000	6,300	4,300	2,200	200	12,700	10,700	900	700	S	S
Life and related scientists	341,900	285,100	37,700	6,600	10,900	1,500	135,500	117,100	9,800	2,000	5,700	900
Agricultural/food scientists	39,700	34,700	2,500	1,100	1,200	100	20,100	18,400	S	800	S	S
Biological scientists	206,500	164,500	30,100	3,400	7,500	1,000	87,900	73,100	8,600	1,200	4,400	600
Environmental life scientists	19,800	19,100	300	S	S	200	14,600	14,300	S	S	S	S
Postsecondary life science teachers	75,800	66,700	4,700	2,000	2,200	200	12,800	11,300	S	S	800	S
Physical and related scientists	297,900	252,500	27,800	8,800	7,800	900	139,600	120,600	8,400	5,800	4,600	S
Chemists	121,700	96,400	15,500	5,700	4,100	100	70,500	57,400	5,600	4,200	3,200	S
Earth scientists/geologists/oceanographers	72,800	66,600	3,300	800	1,900	200	38,000	35,500	900	S	900	S
Physicists and astronomers	30,400	26,200	3,000	800	300	100	7,200	6,400	400	S	S	S
Other physical scientists	22,200	19,800	1,400	500	300	S	13,100	12,100	S	S	S	S
Postsecondary physical science teachers	50,700	43,600	4,500	1,000	1,300	300	10,900	9,200	1,100	300	300	S
Social and related scientists	363,400	314,400	14,800	17,200	15,500	1,500	71,400	58,300	4,000	4,600	4,200	S
Economists	35,400	29,600	3,600	800	1,500	S	11,800	9,400	1,400	S	S	S
Political scientists	11,600	9,400	300	500	1,300	S	5,800	4,900	S	S	700	S
Psychologists	197,000	176,100	3,000	9,300	8,100	500	32,100	26,500	S	2,800	2,100	S
Sociologists/anthropologists	17,600	15,400	600	1,200	400	S	6,900	6,200	S	S	S	S
Other social scientists	13,600	9,600	1,600	1,100	1,300	S	4,500	2,700	1,000	S	S	S
Postsecondary social science teachers	88,100	74,300	5,800	4,200	3,000	700	10,400	8,700	S	S	S	S
Engineers	1,370,300	1,122,400	156,600	37,700	49,100	4,100	907,400	772,800	70,600	27,300	33,300	3,100
Aerospace engineers	67,400	56,800	7,400	1,600	1,300	100	36,300	30,700	3,500	1,400	700	S
Chemical engineers	79,900	63,000	11,200	2,500	3,000	200	51,100	42,600	4,600	1,500	2,200	S
Civil engineers	223,700	181,200	25,600	4,800	11,100	800	160,800	133,900	14,500	3,900	7,600	700
Electrical engineers	362,300	281,800	55,200	10,400	14,000	800	233,500	190,000	25,800	7,800	9,200	700
Industrial engineers	81,200	69,000	5,100	3,400	3,300	400	62,700	54,400	2,900	2,600	2,600	200
Mechanical engineers	265,800	223,800	26,600	7,000	7,300	1,000	194,300	171,800	11,500	4,700	5,400	700

See explanatory information and SOURCE at end of table.

Appendix table 6-8

Employed scientists and engineers in the United States, by occupation, highest degree, and race/ethnicity: 1999

Occupation	All degrees[a]						Bachelor's					
	Total[b]	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Total[b]	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native
Other engineers	258,700	222,900	20,100	6,900	8,100	800	163,000	145,200	6,900	5,000	5,300	600
Postsecondary engineering teachers	31,400	23,800	5,400	1,200	1,000	S	5,600	4,100	900	S	S	S
Non-S&E occupations	7,440,800	6,228,100	415,400	475,500	296,300	22,700	4,355,700	3,619,600	236,500	288,100	194,000	15,800
Managers and administrators	2,035,600	1,740,900	106,500	115,900	66,100	5,500	1,156,800	997,500	51,300	62,900	41,100	3,400
Health-related occupations	848,100	698,700	69,700	43,800	33,700	1,500	304,300	238,100	26,900	21,400	16,600	800
Teachers, except S&E postsecondary teachers	683,700	573,600	18,500	56,200	33,200	2,100	361,200	298,800	11,100	29,900	20,300	1,200
Non-S&E postsecondary teachers	124,000	101,700	9,700	7,600	4,200	500	18,500	14,000	1,600	1,700	1,100	S
Social services/related occupations	475,800	363,000	13,900	64,900	30,900	3,000	215,300	153,300	7,400	33,300	19,900	1,500
Technologists and technicians	387,100	305,900	46,700	21,800	11,500	1,200	309,600	248,900	30,600	19,700	9,300	1,000
Sales and marketing occupations	943,800	817,000	52,800	41,400	29,300	2,900	723,700	630,500	35,800	30,400	24,100	2,800
Art, humanities, and related occupations	164,900	147,100	6,700	5,400	5,400	S	107,400	96,100	4,300	3,000	3,600	S
Other non-S&E occupations	1,777,800	1,480,200	91,000	118,400	82,100	5,700	1,158,700	942,500	67,400	85,900	57,900	4,800
All occupations	2,982,000	2,440,500	266,600	168,600	98,000	7,700	736,700	583,300	103,800	25,800	21,200	2,000
S&E occupations	1,032,100	807,200	153,000	35,900	32,800	3,000	484,100	381,600	77,000	11,000	12,900	1,400
Computer/mathematical scientists	354,100	256,200	72,900	15,200	8,800	900	67,100	49,500	14,500	1,400	1,600	S
Computer/information scientists	304,800	216,200	69,100	11,600	7,200	700	32,400	21,800	9,600	200	800	S
Mathematical scientists	16,000	12,400	2,000	1,100	500	S	7,900	6,200	1,400	100	100	S
Postsecondary computer/mathematics teachers	33,300	27,600	1,900	2,500	1,100	S	26,800	21,500	3,600	1,100	600	S
Life and related scientists	72,500	61,200	7,100	2,200	1,800	300	121,100	95,600	19,500	2,100	3,500	400
Agricultural/food scientists	10,400	8,800	1,000	S	300	S	9,200	7,500	1,000	200	400	S
Biological scientists	42,700	35,200	5,400	1,100	900	S	70,000	51,200	15,200	1,100	2,200	200
Environmental life scientists	4,000	3,800	S	S	S	S	1,200	1,100	S	S	S	S
Postsecondary life science teachers	15,500	13,400	600	900	500	S	40,800	35,900	3,100	900	800	100
Physical and related scientists	73,000	62,300	7,100	1,800	1,400	400	84,900	69,200	12,300	1,200	1,800	300
Chemists	23,000	18,100	3,500	1,100	400	S	28,100	20,700	6,500	400	500	S
Earth scientists/geologists/oceanographers	24,300	21,800	1,300	200	800	S	10,400	9,000	1,100	S	200	S
Physicists and astronomers	8,500	7,500	600	S	S	S	14,700	12,300	2,000	100	200	S
Other physical scientists	7,300	6,100	1,000	S	S	S	1,800	1,600	100	S	S	S
Postsecondary physical science teachers	9,800	8,700	800	100	100	S	29,800	25,600	2,600	600	900	200

See explanatory information and SOURCE at end of table.

Appendix table 6-8

Employed scientists and engineers in the United States, by occupation, highest degree, and race/ethnicity: 1999

Occupation	All degrees[a]						Bachelor's					
	Total[b]	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Total[b]	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native
Social and related scientists	155,900	136,200	4,000	8,100	7,100	500	126,900	110,800	6,800	4,500	4,100	600
Economists	15,200	13,100	1,200	S	700	S	8,100	6,700	1,000	100	200	S
Political scientists	4,200	3,100	S	S	600	S	1,400	1,300	S	S	S	S
Psychologists	102,400	92,100	1,000	5,100	4,000	200	58,000	53,100	1,200	1,500	1,900	300
Sociologists/anthropologists	6,900	5,700	400	600	S	S	3,700	3,400	100	100	100	S
Other social scientists	5,700	4,100	400	400	800	S	2,400	1,800	200	300	S	S
Postsecondary social science teachers	21,500	18,100	900	1,400	900	S	53,300	44,500	4,100	2,500	1,900	300
Engineers	376,500	291,300	62,000	8,600	13,600	900	84,200	56,500	23,900	1,700	1,900	100
Aerospace engineers	26,300	22,600	2,700	200	500	S	4,600	3,300	1,100	100	100	S
Chemical engineers	20,700	15,200	4,000	800	600	S	8,100	5,200	2,600	100	100	S
Civil engineers	57,200	43,600	9,700	700	3,200	S	5,100	3,200	1,400	200	200	S
Electrical engineers	109,400	80,000	22,600	2,300	4,400	S	18,400	10,900	6,800	200	400	S
Industrial engineers	17,400	13,800	2,000	800	600	S	1,000	800	200	S	S	S
Mechanical engineers	62,000	46,600	11,400	2,100	1,600	300	9,100	5,300	3,500	100	100	S
Other engineers	76,900	64,400	8,400	1,600	2,400	S	18,800	13,300	4,800	300	400	S
Postsecondary engineering teachers	6,600	5,100	1,100	S	300	S	19,200	14,500	3,500	700	500	S
Non-S&E occupations	1,949,900	1,633,200	113,600	132,700	65,300	4,700	252,600	201,700	26,800	14,800	8,300	600
Managers and administrators	726,600	618,100	44,100	42,500	20,400	1,500	98,400	79,800	9,700	5,700	3,000	200
Health-related occupations	100,400	82,800	9,000	4,700	3,800	S	25,000	17,500	5,300	1,100	1,000	100
Teachers, except S&E postsecondary teachers	304,300	260,700	6,700	24,600	11,300	800	11,500	8,700	400	1,500	800	S
Non-S&E postsecondary teachers	41,400	35,100	2,200	2,800	1,000	S	53,000	42,700	5,100	3,100	1,600	200
Social services/related occupations	239,800	192,500	5,700	29,500	10,600	1,400	12,000	9,000	800	1,900	300	S
Technologists and technicians	65,900	48,600	13,400	2,100	1,800	S	9,800	7,100	2,600	S	100	S
Sales and marketing occupations	196,000	167,400	14,700	9,000	4,600	S	11,800	9,700	1,300	400	400	S
Art, humanities and related occupations	48,800	42,900	2,000	2,200	1,700	S	6,000	5,600	200	100	100	S
Other non-S&E occupations	226,600	185,200	15,900	15,200	10,000	300	25,000	21,600	1,400	900	1,100	S

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes first-professional degrees not shown separately.

[b]Total includes "other" race/ethnicity not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding.

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

Appendix table 6-9
Employed scientists and engineers in the United States, by occupation, highest degree, and disability status: 1999

Occupation	All degrees[a]		Bachelor's		Master's		Doctorate	
	Without disabilities	With disabilities	Without disabilities	With disabilities	Without disabilities	With disabilities	Without disabilities	With disabilities
All occupations	10,237,000	744,600	5,906,800	443,300	2,769,400	212,600	687,500	49,200
S&E occupations	3,334,900	206,000	1,877,600	116,800	975,200	56,800	453,200	30,900
Computer/mathematical scientists	1,099,400	67,900	696,900	43,600	334,200	19,900	62,700	4,400
Computer/information scientists	999,700	58,400	674,300	41,100	289,300	15,600	30,700	1,700
Mathematical scientists	33,900	2,400	11,100	S	15,300	700	7,400	400
mathematics teachers	65,800	7,200	11,500	1,200	29,600	3,700	24,600	2,300
Life and related scientists	321,700	20,200	127,500	8,000	68,800	3,800	113,700	7,400
Agricultural/food scientists	37,200	2,500	18,500	1,700	10,400	S	8,300	900
Biological scientists	195,800	10,800	83,600	4,300	39,800	2,900	66,600	3,300
Environmental life scientists	18,700	1,100	13,800	S	3,900	S	1,100	100
Postsecondary life science teachers	70,100	5,800	11,600	1,200	14,700	700	37,700	3,100
Physical and related scientists	281,400	16,500	132,900	6,700	67,900	5,100	80,100	4,800
Chemists	116,200	5,600	67,400	3,000	21,800	1,200	26,900	1,300
oceanographers	67,900	4,900	35,600	2,300	22,300	1,900	9,700	600
Physicists and astronomers	29,400	1,000	7,200	S	8,200	200	14,000	700
Other physical scientists	20,000	2,200	12,000	S	6,300	1,100	1,700	S
science teachers	47,800	2,800	10,700	S	9,300	600	27,800	2,100
Social and related scientists	342,900	20,600	70,100	1,400	146,900	9,000	117,200	9,700
Economists	32,900	2,500	11,000	S	14,400	800	7,500	600
Political scientists	11,400	200	5,800	S	4,200	S	1,200	200
Psychologists	185,500	11,500	31,600	S	95,600	6,800	54,000	3,900
Sociologists/anthropologists	17,000	600	6,900	S	6,600	S	3,500	200
Other social scientists	13,100	500	4,500	S	5,500	S	2,000	400
science teachers	83,000	5,200	10,400	S	20,500	900	49,000	4,200
Engineers	1,289,500	80,800	850,300	57,100	357,500	19,100	79,600	4,600
Aerospace engineers	62,600	4,800	33,400	2,900	24,700	1,700	4,400	200
Chemical engineers	76,800	3,000	48,900	2,200	20,200	500	7,700	300
Civil engineers	210,500	13,100	151,700	9,100	53,600	3,700	4,800	300
Electrical engineers	340,100	22,100	218,200	15,400	103,700	5,700	17,400	1,000
Industrial engineers	75,100	6,000	57,300	5,400	16,800	600	1,000	S
Mechanical engineers	251,300	14,400	182,800	11,500	59,500	2,500	8,600	400
Other engineers	243,400	15,300	153,100	10,000	72,600	4,300	17,700	1,000
Postsecondary engineering teachers	29,400	2,000	5,000	S	6,600	S	17,900	1,300
Non-S&E occupations	6,902,200	538,600	4,029,200	326,400	1,794,100	155,700	234,300	18,300
Managers and administrators	1,887,800	147,800	1,068,800	88,000	675,700	50,900	92,000	6,500
Health-related occupations	813,600	34,500	290,700	13,600	95,800	4,700	23,300	1,700
postsecondary teachers	628,200	55,500	336,100	25,200	276,400	27,900	10,100	1,400
Non-S&E postsecondary teachers	115,900	8,100	16,700	1,800	38,500	2,900	49,800	3,200
Social services/related occupations	434,500	41,400	199,600	15,700	216,300	23,500	10,500	1,500
Technologists and technicians	366,200	20,900	292,600	17,000	63,100	2,900	9,000	800
Sales and marketing occupations	870,500	73,300	667,500	56,300	181,600	14,500	10,500	1,300
Art, humanities, and related occupations	150,700	14,200	98,500	8,900	44,500	4,300	5,600	400
Other non-S&E occupations	1,634,600	143,100	1,058,800	99,900	202,300	24,300	23,500	1,500

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability
[a]Total includes first-professional degrees not shown separately

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding.

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

Appendix table 6-10
Employed scientists and engineers, by broad occupation, employment sector, sex, race/ethnicity, and disability status: 1999

Occupation and employment sector	Total	Sex		Race/ethnicity[a]					Disability status	
		Male	Female	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Without disabilities	With disabilities
All occupations	10,981,600	7,171,500	3,810,200	9,124,600	805,900	597,100	417,200	33,300	10,237,000	744,600
Pre-/elementary/middle/ secondary school	845,200	311,400	533,800	702,600	22,100	75,100	42,500	2,700	778,800	66,400
2-year college	109,100	56,500	52,600	86,900	5,100	11,100	5,600	500	97,200	11,900
4-year college or university	1,068,100	600,000	468,100	851,200	103,200	61,500	47,600	3,200	1,002,000	66,200
Private for-profit	5,586,800	4,067,600	1,519,200	4,678,500	478,000	229,600	185,500	14,800	5,247,800	339,000
Private not-for-profit	708,700	318,000	390,600	589,300	35,800	49,000	31,800	2,200	667,000	41,700
Self-employed, not incorporated	726,600	494,100	232,400	657,800	32,800	13,400	21,000	1,600	660,000	66,500
Self-employed, incorporated	518,300	383,600	134,700	458,300	33,400	14,400	10,900	800	473,700	44,600
Local government	384,100	231,000	153,100	285,000	28,000	43,400	25,300	2,200	357,800	26,300
State government	446,100	271,200	174,900	353,200	21,500	48,500	20,500	2,200	410,200	36,000
U.S. military	92,800	81,500	11,400	77,000	4,700	6,300	4,600	200	89,700	3,100
U.S. government	480,200	346,200	134,000	375,500	38,600	42,800	19,800	2,800	438,200	42,000
Other non-educational institution	15,700	10,400	5,300	9,300	2,500	1,900	1,900	S	14,700	900
All S&E occupations	3,540,800	2,705,000	835,800	2,896,600	390,500	121,600	120,900	10,600	3,334,900	206,000
Pre-/elementary/middle/ secondary school	41,600	15,700	25,900	37,100	700	1,500	2,200	S	39,700	1,900
2-year college	56,700	34,400	22,300	48,700	2,000	3,300	2,500	200	50,800	5,900
4-year college or university	510,100	335,500	174,600	416,600	55,500	17,700	18,400	1,600	481,600	28,700
Private for-profit	2,172,400	1,762,400	409,900	1,763,200	265,500	67,700	70,000	5,800	2,054,900	117,500
Private not-for-profit	114,000	62,500	51,500	95,600	8,100	4,100	5,600	600	106,500	7,500
Self-employed, not incorporated	105,200	67,900	37,300	98,500	4,000	500	2,000	200	97,400	7,800
Self-employed, incorporated	84,600	68,900	15,600	74,700	6,100	2,000	1,600	S	78,300	6,300
Local government	77,100	58,800	18,300	54,900	12,700	3,800	5,300	400	74,000	3,100
State government	131,700	99,600	32,100	107,000	11,300	7,200	5,500	600	123,500	8,200
U.S. military	21,500	19,100	2,400	16,700	2,000	1,900	800	100	20,800	700
U.S. government	219,600	175,500	44,200	179,300	21,400	11,500	6,400	800	201,500	18,100
Other non-educational institution	6,400	4,600	1,800	4,300	1,200	300	600	S	6,000	400
Computer and mathematical scientists	1,167,400	850,600	316,700	922,200	153,600	51,400	37,600	2,700	1,099,400	67,900
Pre-/elementary/middle/ secondary school	7,800	4,600	3,100	6,800	S	S	S	S	7,800	S
2-year college	26,000	15,900	10,100	21,400	1,300	2,100	1,200	S	22,100	3,900
4-year college or university	98,500	64,400	34,200	81,800	10,300	3,000	2,700	100	91,700	5,900
Private for-profit	855,300	637,800	217,500	665,300	125,100	34,800	27,900	2,200	812,000	43,300
Private not-for-profit	35,600	19,400	16,100	31,100	2,400	1,200	800	S	32,400	3,200
Self-employed, not incorporated	21,500	16,800	4,700	19,900	1,300	S	300	S	20,500	1,000
Self-employed, incorporated	30,100	25,800	4,300	24,800	3,400	1,500	S	S	28,600	1,400
Local government	12,900	7,900	5,000	7,900	2,800	900	1,200	S	11,500	1,400
State government	25,700	17,200	8,500	20,100	2,000	2,100	1,500	S	25,400	S
U.S. military	6,500	6,000	500	5,700	S	S	S	S	6,200	S
U.S. government	46,100	34,000	12,100	36,700	4,200	4,200	1,000	S	39,800	6,300
Other non-educational institution	1,400	800	500	800	S	S	S	S	1,300	S

See explanatory information and SOURCE at end of table.

Appendix table 6-10
Employed scientists and engineers, by broad occupation, employment sector, sex, race/ethnicity, and disability status: 1999

Occupation and employment sector	Total	Sex		Race/ethnicity[a]					Disability status	
		Male	Female	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Without disabilities	With disabilities
Life and related scientists	341,900	217,500	124,400	285,100	37,700	6,600	10,900	1,500	321,700	20,200
Pre-/elementary/middle/ secondary school	S	S	S	S	S	S	S	S	S	S
2-year college	10,500	5,500	4,900	9,400	200	400	500	S	9,500	1,000
4-year college or university	152,300	92,500	59,900	124,000	18,900	3,000	5,800	200	144,200	8,100
Private for-profit	87,900	56,700	31,200	73,500	10,700	1,200	2,300	200	84,000	4,000
Private not-for-profit	12,800	6,600	6,200	9,900	2,400	100	300	100	12,300	500
Self-employed, not incorporated	8,000	4,700	3,200	7,400	300	S	300	S	7,700	300
Self-employed, incorporated	4,500	3,900	700	4,300	200	S	S	S	3,700	900
Local government	8,600	5,500	3,100	5,800	1,100	S	1,000	S	8,600	S
State government	19,900	13,600	6,300	18,600	700	S	200	300	18,000	1,900
U.S. military	700	300	400	600	S	S	S	S	700	S
U.S. government	36,000	27,600	8,400	31,200	2,800	1,400	300	200	32,900	3,100
Other non-educational institution	200	100	S	100	S	S	S	S	200	S
Physical and related scientists	297,900	229,400	68,400	252,500	27,800	8,800	7,800	900	281,400	16,500
Pre-/elementary/middle/ secondary school	S	S	S	S	S	S	S	S	S	S
2-year college	7,300	5,500	1,900	6,600	300	300	100	S	7,000	300
4-year college or university	75,000	57,900	16,900	64,000	7,500	1,000	1,800	300	71,500	3,300
Private for-profit	142,800	108,600	34,200	119,100	15,100	4,300	3,900	400	134,500	8,300
Private not-for-profit	6,100	4,900	1,200	5,000	400	100	500	S	6,000	100
Self-employed, not incorporated	6,300	5,900	400	6,000	100	S	S	S	5,200	1,000
Self-employed, incorporated	5,700	4,100	1,700	5,300	300	S	S	S	5,400	S
Local government	6,800	5,400	1,400	5,500	800	S	S	S	6,600	S
State government	16,200	11,800	4,300	13,900	1,100	1,000	200	S	14,400	1,800
U.S. military	3,300	3,000	S	2,800	S	S	S	S	3,300	S
U.S. government	28,000	21,900	6,100	23,800	2,200	1,100	900	S	27,000	1,100
Other non-educational institution	300	300	S	300	S	S	S	S	300	S
Social and related scientists	363,400	167,300	196,200	314,400	14,800	17,200	15,500	1,500	342,900	20,600
Pre-/elementary/middle/ secondary school	32,500	9,700	22,800	29,500	300	1,100	1,600	S	31,200	1,400
2-year college	9,400	4,600	4,800	8,400	100	500	400	S	9,000	400
4-year college or university	122,000	65,900	56,200	100,500	7,400	7,600	5,400	700	115,900	6,100
Private for-profit	52,700	23,200	29,500	47,400	2,800	1,100	1,500	S	49,300	3,400
Private not-for-profit	41,600	15,500	26,100	34,400	1,300	2,700	3,100	S	39,300	2,300
Self-employed, not incorporated	44,500	16,500	27,900	42,800	700	300	600	100	41,200	3,300
Self-employed, incorporated	13,800	5,400	8,400	13,200	100	S	200	S	13,300	500
Local government	9,300	4,200	5,100	7,500	S	400	1,100	S	8,900	400
State government	18,400	10,800	7,600	15,900	600	1,500	300	100	16,600	1,800
U.S. military	1,100	400	700	500	S	S	S	S	1,100	S
U.S. government	15,500	9,300	6,200	12,800	500	1,300	700	100	14,800	800
Other non-educational institution	2,600	1,700	1,000	1,600	600	S	400	S	2,500	S

See explanatory information and SOURCE at end of table.

Appendix table 6-10

Employed scientists and engineers, by broad occupation, employment sector, sex, race/ethnicity, and disability status: 1999

Page 3 of 3

Occupation and employment sector	Total	Sex		Race/ethnicity[a]					Disability status	
		Male	Female	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Without disabilities	With disabilities
Engineers	1,370,300	1,240,200	130,000	1,122,400	156,600	37,700	49,100	4,100	1,289,500	80,800
Pre-/elementary/middle/ secondary school	900	900	S	S	S	S	S	S	700	S
2-year college	3,400	2,800	600	2,900	S	S	S	S	3,300	S
4-year college or university	62,400	55,000	6,700	46,400	11,200	1,800	2,100	S	58,100	4,300
Private for-profit	1,033,500	936,100	97,400	857,900	111,800	26,300	34,400	2,900	975,100	58,400
Private not-for-profit	18,000	16,000	1,900	15,200	1,600	S	900	200	16,500	1,400
Self-employed, not incorporated	25,000	23,900	1,100	22,400	1,600	200	800	S	22,800	2,200
Self-employed, incorporated	30,400	29,800	600	27,100	2,100	300	900	S	27,400	3,100
Local government	39,400	35,700	3,700	28,100	7,700	1,500	1,900	S	38,400	1,000
State government	51,500	46,100	5,400	38,600	6,800	2,500	3,200	S	49,100	2,500
U.S. military	9,800	9,400	400	7,000	1,400	1,000	400	S	9,500	S
U.S. government	94,000	82,700	11,200	74,700	11,600	3,500	3,600	400	87,000	6,900
Other non-educational institution	2,000	1,700	300	1,500	S	S	S	S	1,800	S
Non-S&E occupations	7,440,800	4,466,400	2,974,300	6,228,100	415,400	475,500	296,300	22,700	6,902,200	538,600
Pre-/elementary/middle/secondary school	803,600	295,700	507,900	665,500	21,400	73,600	40,300	2,700	739,100	64,500
2-year college	52,400	22,100	30,300	38,200	3,000	7,700	3,100	400	46,400	6,000
4-year college or university	558,000	264,400	293,500	434,500	47,800	43,900	29,300	1,400	520,400	37,400
Private for-profit	3,414,500	2,305,100	1,109,300	2,915,300	212,500	161,900	115,500	9,000	3,192,900	221,600
Private not-for-profit	594,700	255,500	339,200	493,800	27,700	44,900	26,200	1,600	560,500	34,200
Self-employed, not incorporated	621,400	426,200	195,200	559,400	28,800	12,800	19,000	1,300	562,700	58,700
Self-employed, incorporated	433,700	314,700	119,000	383,600	27,300	12,400	9,300	700	395,400	38,300
Local government	307,000	172,200	134,800	230,100	15,300	39,600	20,000	1,900	283,800	23,300
State government	314,400	171,600	142,800	246,200	10,300	41,400	15,000	1,500	286,700	27,700
U.S. military	71,400	62,400	9,000	60,300	2,700	4,400	3,800	100	69,000	2,400
U.S. government	260,500	170,700	89,800	196,200	17,300	31,300	13,400	1,900	236,700	23,800
Other non-educational institution	9,300	5,800	3,500	5,000	1,300	1,600	1,300	S	8,700	S

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes "other" race/ethnicity not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding.

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

Appendix table 6-11

Participation of employed scientists and engineers in work-related training, by type of training, broad occupation, sex, race/ethnicity, and disability status: 1999

Type of training attended[a] and occupation	Total	Sex		Race/ethnicity[b]					Disability status	
		Male	Female	White	Asian/Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Without disabilities	With disabilities
	Number participating in work-related training during the past year									
All work-related training, all occupations	7,611,800	4,894,300	2,717,500	6,322,800	514,000	453,400	294,600	24,200	7,109,700	502,000
S&E occupations	2,384,700	1,795,200	589,500	1,946,000	255,100	91,000	84,600	7,600	2,251,900	132,900
Science occupations	1,432,900	939,800	493,100	1,167,600	148,600	62,800	49,200	4,600	1,353,100	79,800
Computer/math scientists	785,700	559,900	225,700	612,200	105,600	40,100	26,000	1,700	742,400	43,300
Life/related scientists	210,000	135,900	74,100	178,200	20,000	4,100	6,500	1,200	198,600	11,400
Physical/related scientists	176,300	133,700	42,600	148,800	15,900	6,000	4,900	600	165,600	10,700
Social/related scientists	260,900	110,300	150,600	228,300	7,100	12,600	11,800	1,000	246,400	14,500
Engineering occupations	951,800	855,400	96,400	778,400	106,400	28,200	35,400	3,000	898,800	53,000
Non-S&E occupations	5,227,000	3,099,100	2,127,900	4,376,800	258,900	362,400	210,000	16,700	4,857,900	369,200
	Percent of those participating in training who participated in each type of training									
Management/supervisor training, all occupations	30.1	33.2	24.3	29.9	27.3	35.1	30.0	28.5	29.8	33.1
S&E occupations	26.1	28.1	20.1	26.0	25.0	28.0	30.0	25.0	26.2	24.4
Science occupations	21.6	23.4	18.2	21.1	23.2	24.0	25.2	21.7	21.6	21.9
Computer/math scientists	23.7	24.2	22.4	23.2	24.1	25.7	30.0	S	23.8	22.2
Life/related scientists	24.3	26.3	20.5	24.5	18.5	26.8	32.3	33.3	24.1	28.1
Physical/related scientists	20.8	22.7	14.8	20.1	22.0	30.0	28.6	16.7	20.4	27.1
Social/related scientists	13.6	16.4	11.6	13.3	26.8	15.9	10.2	20.0	13.7	12.4
Engineering occupations	32.9	33.3	30.0	33.4	27.6	36.5	36.4	30.0	33.2	28.1
Non-S&E occupations	31.9	36.2	25.5	31.7	29.5	36.9	30.0	29.9	31.5	36.3
Occupational training, all occupations	87.3	86.3	89.2	87.2	87.4	88.8	88.0	87.2	87.5	84.8
S&E occupations	87.1	86.6	88.7	86.8	88.4	90.3	87.0	86.8	87.2	86.0
Science occupations	88.9	88.6	89.4	88.7	90.6	89.2	89.0	82.6	88.8	90.0
Computer/math scientists	89.9	89.8	90.1	89.0	93.6	92.5	91.2	94.1	89.8	91.2
Life/related scientists	85.2	85.2	85.2	85.4	85.0	80.5	86.2	75.0	85.1	86.0
Physical/related scientists	85.1	85.2	84.5	85.8	79.2	81.7	85.7	83.3	85.1	84.1
Social/related scientists	91.5	90.9	92.0	92.3	87.3	85.7	87.3	90.0	91.4	93.1
Engineering occupations	84.5	84.5	84.6	84.1	85.5	92.6	84.2	93.3	84.8	80.0
Non-S&E occupations	87.4	86.0	89.4	87.3	86.4	88.5	88.4	86.8	87.6	84.4

See explanatory information and SOURCE at end of table.

Appendix table 6-11

Participation of employed scientists and engineers in work-related training, by type of training, broad occupation, sex, race/ethnicity, and disability status: 1999

Type of training attended[a] and occupation	Total	Sex		Race/ethnicity[b]					Disability status	
		Male	Female	White	Asian/Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Without disabilities	With disabilities
	Percent of those participating in training who participated in each type of training									
General professional training, all occupations	22.8	22.7	22.9	22.2	23.1	27.9	27.2	23.1	22.5	26.9
S&E occupations	22.0	21.6	23.4	21.2	23.8	28.7	29.0	23.7	21.9	24.5
Science occupations	20.4	19.6	22.0	19.5	20.9	28.8	28.7	26.1	20.3	21.8
Computer/math scientists	20.4	19.4	22.8	19.8	18.4	26.4	31.2	23.5	20.3	21.0
Life/related scientists	23.5	21.4	27.3	22.6	24.0	41.5	32.3	33.3	23.3	27.2
Physical/related scientists	20.0	18.9	23.5	18.4	28.9	28.3	30.6	16.7	20.1	18.7
Social/related scientists	18.3	19.0	17.7	16.9	31.0	32.5	21.2	30.0	18.1	22.1
Engineering occupations	24.5	23.8	30.7	23.7	27.8	28.4	29.1	20.0	24.3	28.5
Non-S&E occupations	23.1	23.3	22.8	22.6	22.4	27.8	26.5	22.8	22.8	27.8

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Includes management/supervisory training, training in one's occupational field, and general professional training (e.g., public speaking, business writing).

[b]Total includes "other" race/ethnicity not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding and because individuals could participate in more than one type of training.

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

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002

Appendix table 6-12

Reasons for attending work-related training in the past year, by broad occupation, sex, race/ethnicity, and disability status: 1999

(Percent of those attending)

Reason for attending training and occupation	Total	Sex		Race/ethnicity[a]					Disability status	
		Male	Female	White	Asian/Pacific Islander	Black	Hispanic	American Indian/Alaskan Native	Without disabilities	With disabilities
Facilitate change in occupational field										
All occupations	13.8	13.5	14.4	12.5	19.5	20.8	21.8	19.8	13.8	14.8
S&E occupations	13.5	13.4	13.8	11.8	20.5	20.5	21.9	15.8	13.3	15.4
Scientists	14.6	15.0	13.7	12.9	21.7	21.7	23.4	19.6	14.3	19.5
Computer/math scientists	17.2	17.5	16.4	15.3	23.4	22.9	26.5	47.1	17.1	18.5
Life/related scientists	11.6	10.7	13.1	10.3	16.5	19.5	26.2	8.3	11.0	22.8
Physical/related scientists	12.5	11.7	14.6	11.2	22.6	13.3	18.4	S	11.7	24.3
Social/related scientists	10.5	11.6	9.7	9.6	8.5	22.2	16.9	S	10.1	16.6
Engineers	11.8	11.5	14.1	10.2	19.0	18.1	19.8	6.7	11.9	9.2
Non-S&E occupations	14.0	13.6	14.5	12.8	18.4	20.8	21.7	21.6	13.9	14.6
Gain further skills/knowledge in occupational field										
All occupations	93.2	92.7	94.1	93.2	93.4	93.8	93.7	92.6	93.3	92.0
S&E occupations	93.1	92.8	93.8	92.9	94.1	93.8	93.4	88.2	93.1	92.2
Scientists	93.6	93.2	94.3	93.3	95.6	94.3	94.5	89.1	93.6	93.0
Computer/math scientists	94.8	94.4	95.7	94.3	97.0	95.0	95.8	94.1	94.7	96.3
Life/related scientists	91.1	90.8	91.8	90.8	93.5	95.1	90.8	83.3	91.4	86.0
Physical/related scientists	90.1	90.5	88.7	90.2	90.6	83.3	95.9	83.3	90.0	90.7
Social/related scientists	94.5	93.7	95.1	94.5	93.0	96.8	94.1	100.0	94.8	90.3
Engineers	92.3	92.4	91.2	92.4	92.0	92.9	91.8	90.0	92.4	91.1
Non-S&E occupations	93.3	92.7	94.2	93.3	92.7	93.8	93.8	93.4	93.4	92.0
Licensure/certification										
All occupations	31.0	30.3	32.4	31.5	24.1	31.1	31.6	39.7	31.1	29.9
S&E occupations	20.5	19.4	24.0	20.6	17.2	25.1	22.0	34.2	20.6	20.2
Scientists	22.1	20.8	24.6	22.4	17.8	22.5	26.8	34.8	22.2	21.1
Computer/math scientists	16.0	17.4	12.4	14.9	18.5	19.2	25.4	41.2	16.1	13.9
Life/related scientists	23.6	24.6	21.9	24.9	16.0	4.9	21.5	25.0	24.2	14.0
Physical/related scientists	15.7	15.0	18.1	15.9	11.3	18.3	18.4	50.0	15.9	13.1
Social/related scientists	43.7	40.8	45.9	44.9	26.8	40.5	35.6	40.0	43.1	54.5
Engineers	18.2	17.9	20.9	18.0	16.5	30.9	15.5	33.3	18.1	18.9
Non-S&E occupations	35.8	36.6	34.7	36.4	30.8	32.6	35.5	41.9	36.0	33.5
All occupations	37.4	38.1	36.1	36.0	43.4	45.4	42.5	46.3	37.6	33.8
S&E occupations	42.7	43.2	41.0	40.8	49.7	55.8	51.3	50.0	43.0	37.3

See explanatory information and SOURCE at end of table.

Appendix table 6-12

Reasons for attending work-related training in the past year, by broad occupation, sex, race/ethnicity, and disability status: 1999

(Percent of those attending)

Reason for attending training and occupation	Total	Sex		Race/ethnicity[a]					Disability status	
		Male	Female	White	Asian/Pacific Islander	Black	Hispanic	American Indian/Alaskan Native	Without disabilities	With disabilities
Scientists	42.6	44.0	39.9	40.5	50.4	55.1	51.0	52.2	42.8	38.5
Computer/math scientists	51.0	51.7	49.3	48.9	56.6	63.3	58.1	70.6	51.2	48.3
Life/related scientists	35.0	32.9	38.9	33.8	38.0	48.8	49.2	50.0	35.6	25.4
Physical/related scientists	36.8	35.8	40.1	36.4	34.0	45.0	42.9	50.0	36.7	37.4
Social/related scientists	27.1	28.2	26.3	25.8	29.6	35.7	39.8	30.0	27.5	20.0
Engineers	42.8	42.4	46.7	41.1	48.7	57.4	51.7	50.0	43.3	35.7
Non-S&E occupations	34.9	35.1	34.7	33.9	37.2	42.8	38.9	43.7	35.1	32.5
Learn skills or knowledge needed for recently acquired position										
All occupations	29.7	28.3	32.3	28.3	38.9	33.8	37.4	37.6	29.8	28.2
S&E occupations	31.6	30.9	33.8	29.7	42.5	36.9	37.6	36.8	31.6	31.2
Scientists	32.0	31.8	32.4	30.0	43.7	36.1	37.8	39.1	32.0	32.1
Computer/math scientists	37.5	36.8	39.4	35.8	45.7	39.7	41.2	52.9	37.7	34.9
Life/related scientists	26.0	24.1	29.4	24.2	40.5	24.4	27.7	33.3	25.7	29.8
Physical/related scientists	26.7	25.4	30.5	25.3	38.4	28.3	28.6	33.3	26.1	35.5
Social/related scientists	23.8	23.5	24.0	22.1	36.6	31.7	39.0	30.0	23.8	23.4
Engineers	31.0	29.9	40.6	29.1	40.6	38.7	37.6	30.0	31.1	29.8
Non-S&E occupations	28.9	26.8	31.8	27.7	35.5	33.0	37.2	37.7	29.0	27.1
Attendance required/expected by employer										
All occupations	50.3	49.3	52.1	49.6	47.2	60.0	53.9	60.3	50.2	51.6
S&E occupations	49.5	50.5	46.6	49.4	47.2	56.9	52.2	50.0	49.6	48.8
Scientists	47.0	48.0	44.9	46.5	46.4	55.6	50.0	45.7	47.0	46.1
Computer/math scientists	48.7	49.1	47.9	48.3	47.9	56.6	51.5	41.2	48.8	48.0
Life/related scientists	46.9	47.4	46.0	47.3	43.0	39.0	47.7	66.7	47.4	37.7
Physical/related scientists	50.2	50.0	50.5	50.7	45.3	53.3	49.0	50.0	49.9	54.2
Social/related scientists	39.6	41.2	38.4	38.2	35.2	58.7	48.3	30.0	39.5	40.7
Engineers	53.4	53.2	55.2	53.8	48.4	59.9	55.4	56.7	53.4	53.0
Non-S&E occupations	50.6	48.5	53.7	49.7	47.3	60.8	54.6	64.7	50.5	52.6

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes "other" race/ethnicity not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding.

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

Appendix table 6-13

Median annual salary of full-time employed scientists and engineers, by broad occupation, age group, sex, and highest degree level: 1999

(Dollars)

Occupation and age	All degree levels[a]			Bachelor's			Master's			Doctorate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All occupations	54,500	60,000	40,400	49,000	55,000	36,000	58,000	65,000	45,000	70,000	74,500	56,100
29 or younger	34,000	39,000	30,000	32,700	37,600	29,000	38,500	46,500	34,000	49,000	60,000	35,000
30–39	53,000	59,000	43,000	50,000	55,000	40,000	56,000	61,000	45,000	60,000	63,400	52,000
40–49	60,000	67,500	46,000	55,000	60,000	40,000	61,300	70,000	49,000	69,000	72,000	56,800
50 or older	60,000	68,400	46,000	56,000	60,000	41,000	60,000	66,000	48,000	76,000	80,000	60,000
S&E occupations	60,000	64,000	50,300	59,000	60,000	50,000	64,000	68,000	50,000	70,000	72,000	58,000
29 or younger	43,000	45,000	38,000	42,000	45,000	38,000	45,000	50,000	36,000	50,000	60,000	35,000
30–39	60,000	60,000	52,000	58,200	60,000	52,000	60,000	62,000	50,000	60,000	63,000	53,000
40–49	67,000	70,000	58,000	65,000	67,000	56,000	70,000	72,000	59,000	68,000	70,000	59,000
50 or older	70,000	71,400	55,000	66,000	68,000	55,000	69,300	73,000	50,500	77,000	80,000	64,000
Computer and mathematical scientists	64,000	66,000	58,000	60,800	64,000	56,000	68,000	70,000	61,000	72,000	75,000	62,000
29 or younger	50,000	52,800	47,000	50,000	50,000	47,000	59,000	60,000	54,000	65,000	80,000	S
30–39	63,000	65,000	58,000	61,000	65,000	57,000	65,000	68,000	61,000	66,000	70,000	57,000
40–49	68,500	70,000	60,000	65,000	69,000	58,000	72,000	75,000	65,100	75,000	78,000	70,000
50 or older	66,000	70,000	60,000	64,000	65,000	57,000	69,000	72,500	60,000	74,500	75,800	66,800
Life and related scientists	49,000	52,000	40,000	37,000	41,500	33,600	43,800	46,000	41,000	67,000	70,000	60,000
29 or younger	26,000	25,000	26,000	25,000	25,000	25,000	28,100	21,000	31,000	29,000	S	S
30–39	40,000	42,000	38,000	36,000	39,900	33,600	38,000	36,000	39,200	54,000	54,000	54,000
40–49	54,300	55,000	54,000	46,000	45,000	48,000	50,300	50,000	51,200	65,000	67,000	60,000
50 or older	62,000	67,000	49,300	50,000	52,000	S	49,300	52,000	46,000	78,000	80,000	70,900
Physical and related scientists	52,000	56,600	41,400	45,000	47,000	38,000	52,000	58,000	42,400	71,000	73,000	63,000
29 or younger	31,000	28,000	32,000	30,000	28,000	32,000	29,000	28,500	33,500	50,000	43,000	S
30–39	48,000	50,000	41,400	41,600	43,200	38,000	48,000	50,300	43,000	60,000	60,000	58,000
40–49	60,000	62,500	51,000	52,000	53,000	50,000	60,000	65,000	43,000	71,000	72,900	66,000
50 or older	68,900	71,000	50,000	55,200	62,000	49,000	62,000	66,000	50,000	80,000	81,000	74,000
Social and related scientists	47,100	54,000	40,000	30,000	35,000	29,700	41,000	47,500	38,000	60,000	64,000	52,900
29 or younger	29,000	30,000	28,000	28,000	27,000	28,000	30,000	32,000	29,000	40,600	S	38,000
30–39	40,000	46,000	37,000	30,000	S	28,000	36,000	35,000	36,000	48,000	51,000	45,000
40–49	51,000	55,300	46,700	45,000	S	S	46,000	49,000	44,000	56,000	60,000	52,000
50 or older	59,000	62,000	52,800	S	S	S	50,000	50,000	46,000	66,000	70,000	60,000
Engineers	65,000	65,000	55,700	60,000	62,000	52,000	70,000	70,000	61,000	80,000	80,000	68,000
29 or younger	46,000	46,000	45,000	45,000	45,000	45,000	50,000	50,000	48,000	62,000	62,000	S
30–39	60,000	60,000	58,200	59,900	60,000	55,700	64,000	65,000	62,000	70,600	71,500	66,000
40–49	70,000	70,000	64,000	68,500	70,000	60,000	75,000	75,000	72,000	78,700	79,000	70,000
50 or older	74,500	75,000	66,000	70,000	70,000	66,000	79,100	79,400	S	90,000	90,700	84,000
Non-S&E occupations	50,000	60,000	38,500	41,800	50,000	33,500	53,000	62,000	44,000	70,200	79,000	54,000
29 or younger	30,000	34,000	29,100	30,000	32,000	28,000	35,000	40,000	33,000	45,000	56,000	S
30–39	48,000	54,500	40,000	42,500	48,000	36,000	50,000	60,000	41,000	60,000	65,000	50,000
40–49	55,000	65,000	43,000	48,000	55,000	38,300	57,000	68,300	46,500	70,000	80,000	54,000
50 or older	57,000	65,000	43,600	50,000	56,000	40,000	55,000	60,000	46,000	75,000	80,000	56,000

S data with unweighted sample sizes less than 20 are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes first-professional degrees not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Median salaries are rounded to nearest hundred dollars.

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

Appendix table 6-14

Median annual salary of full-time employed scientists and engineers, by broad occupation, race/ethnicity, highest degree level, and age group: 1999

(Dollars)

Occupation and race/ethnicity[a]	All degrees[b]					Bachelor's					Master's					Doctorate				
	All ages	29 or younger	30–39	40–49	50 or older	All ages	29 or younger	30–39	40–49	50 or older	All ages	29 or younger	30–39	40–49	50 or older	All ages	29 or younger	30–39	40–49	50 or older
All occupations	54,500	34,000	53,000	60,000	60,000	49,000	32,700	50,000	55,000	56,000	58,000	38,500	56,000	61,300	60,000	70,000	49,000	60,000	69,000	76,000
White, non-Hispanic	55,000	33,900	54,000	62,000	62,300	50,000	32,000	50,000	57,900	58,500	58,200	38,000	55,500	63,000	60,000	70,000	43,000	59,500	69,500	77,000
Asian/Pacific Islander	56,000	42,000	60,000	61,000	60,000	48,000	40,000	51,700	52,000	51,000	63,000	55,000	62,000	68,000	66,000	72,000	62,000	66,000	73,000	80,000
Black, non-Hispanic	43,000	30,000	42,000	45,000	50,000	38,000	30,000	39,400	42,000	45,000	48,000	30,000	48,000	50,000	48,300	60,000	S	54,000	59,700	62,000
Hispanic	45,000	32,000	47,500	53,000	55,000	41,000	32,000	45,000	48,000	48,000	52,000	35,000	49,000	56,000	60,000	65,000	S	56,000	60,000	71,400
American Indian/Alaskan Native	42,500	30,000	47,500	42,000	54,000	39,000	29,000	46,000	40,000	51,000	48,500	S	48,500	40,000	53,000	60,000	S	49,000	53,000	65,000
S&E occupations	60,000	43,000	60,000	67,000	70,000	59,000	42,000	58,200	65,000	66,000	64,000	45,000	60,000	70,000	69,300	70,000	50,000	60,000	68,000	77,000
White, non-Hispanic	61,000	42,000	60,000	67,900	70,000	60,000	42,000	59,000	65,000	67,600	64,400	41,000	60,000	70,000	69,300	70,000	45,000	59,000	68,000	76,600
Asian/Pacific Islander	63,000	50,000	62,000	69,000	70,000	58,000	45,000	58,000	65,000	62,000	65,300	57,000	65,000	70,000	72,800	71,000	61,000	68,000	70,000	80,000
Black, non-Hispanic	53,000	44,500	51,600	57,000	59,000	50,600	44,000	50,000	57,000	55,000	54,000	42,000	54,000	58,000	55,000	62,000	S	51,000	56,000	70,000
Hispanic	55,000	42,000	55,000	60,000	60,000	53,500	42,000	55,000	60,000	60,000	58,000	40,000	55,000	62,000	61,000	60,000	S	56,000	56,000	75,000
American Indian/Alaskan Native	50,000	36,000	49,000	45,000	70,000	45,000	35,000	46,000	S	S	54,000	S	S	S	S	60,000	S	55,000	53,000	64,000
Computer and mathematical scientists	64,000	50,000	63,000	68,500	66,000	60,800	50,000	61,000	65,000	64,000	68,000	59,000	65,000	72,000	69,000	72,000	65,000	66,000	75,000	74,500
White, non-Hispanic	65,000	50,000	63,000	69,200	67,000	62,200	50,000	63,000	66,400	65,000	68,000	55,000	65,000	72,000	70,000	72,000	54,300	60,000	75,000	75,000
Asian/Pacific Islander	65,000	58,000	65,000	71,100	68,000	60,000	53,000	60,000	68,600	60,000	70,000	61,000	70,000	77,000	70,000	73,000	S	72,000	75,000	72,000
Black, non-Hispanic	54,000	45,000	54,000	55,900	60,000	50,000	45,000	53,000	54,000	S	60,000	55,000	61,000	63,900	59,000	71,000	S	51,000	58,700	71,000
Hispanic	59,000	50,000	60,000	65,000	53,500	57,000	50,000	59,000	65,000	S	66,000	70,000	70,000	72,000	S	65,000	S	76,000	65,000	58,000
American Indian/Alaskan Native	54,000	S	33,000	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Life and related scientists	49,000	26,000	40,000	54,300	62,000	37,000	25,000	36,000	46,000	50,000	43,800	28,100	38,000	50,300	49,300	67,000	29,000	54,000	65,000	78,000
White, non-Hispanic	50,000	26,000	40,000	55,000	63,000	38,000	25,000	36,000	48,000	50,000	45,000	28,100	37,000	50,700	49,800	68,000	S	52,500	65,000	78,000
Asian/Pacific Islander	48,000	29,000	46,300	53,500	67,000	35,000	26,000	S	S	S	41,000	S	40,000	S	S	64,000	S	60,000	60,000	80,000
Black, non-Hispanic	44,000	S	41,000	44,300	56,800	S	S	S	S	S	42,000	S	S	S	S	58,000	S	49,000	55,000	72,000
Hispanic	36,000	20,000	40,000	47,000	46,000	28,500	20,000	S	S	S	40,000	S	S	S	S	63,000	S	52,000	65,000	81,000
American Indian/Alaskan Native	39,000	S	39,000	S	S	S	S	S	S	S	S	S	S	S	S	62,000	S	56,000	S	S
Physical and related scientists	52,000	31,000	48,000	60,000	68,900	45,000	30,000	41,600	52,000	55,200	52,000	29,000	48,000	60,000	62,000	71,000	50,000	60,000	71,000	80,000
White, non-Hispanic	53,000	30,000	47,500	60,500	69,900	45,000	30,000	42,000	53,400	60,000	55,000	28,500	48,000	63,000	62,000	72,700	49,400	59,400	72,000	81,000

See explantory information and SOURCE at end of table.

Appendix table 6-14

Median annual salary of full-time employed scientists and engineers, by broad occupation, race/ethnicity, highest degree level, and age group: 1999

(Dollars)

Occupation and race/ethnicity[a]	All degrees[b]					Bachelor's					Master's					Doctorate				
	All ages	29 or younger	30-39	40-49	50 or older	All ages	29 or younger	30-39	40-49	50 or older	All ages	29 or younger	30-39	40-49	50 or older	All ages	29 or younger	30-39	40-49	50 or older
Asian/Pacific Islander	55,000	36,000	55,000	60,000	60,000	41,400	36,000	S	S	S	50,000	S	48,000	46,200	S	69,000	S	64,000	70,000	77,000
Black, non-Hispanic	43,000	29,000	41,700	44,700	53,000	43,000	S	S	S	S	44,700	S	S	S	S	60,000	S	60,000	55,000	75,000
Hispanic	43,000	29,000	39,000	46,600	70,000	37,000	29,000	S	S	S	36,000	S	39,000	S	S	67,000	S	61,700	52,500	76,000
American Indian/Alaskan Native	48,000	S	S	S	S	S	S	S	S	S	S	S	S	S	S	61,000	S	S	S	S
Social and related scientists	47,100	29,000	40,000	51,000	59,000	30,000	28,000	30,000	45,000	S	41,000	30,000	36,000	46,000	50,000	60,000	40,600	48,000	56,000	66,000
White, non-Hispanic	48,000	28,500	40,000	51,000	59,700	30,000	27,500	30,000	S	S	42,000	30,000	35,000	46,000	50,000	60,000	38,000	48,000	58,000	66,000
Asian/Pacific Islander	48,500	32,000	47,800	60,000	62,500	S	S	S	S	S	48,000	S	S	S	S	58,000	S	50,000	55,000	67,000
Black, non-Hispanic	40,000	19,000	30,000	45,000	52,000	S	S	S	S	S	35,000	S	33,000	S	S	60,000	S	46,000	53,000	67,000
Hispanic	40,000	26,000	42,000	42,000	45,000	27,000	24,000	S	S	S	42,000	S	42,000	S	S	52,000	S	47,500	47,000	70,500
American Indian/Alaskan Native	50,000	S	S	47,000	53,000	S	S	S	S	S	S	S	S	S	S	55,000	S	S	51,000	55,000
Engineers	65,000	46,000	60,000	70,000	74,500	60,000	45,000	59,900	68,500	70,000	70,000	50,000	64,000	75,000	79,100	80,000	62,000	70,600	78,700	90,000
White, non-Hispanic	65,000	45,000	60,000	70,000	75,000	62,000	45,000	60,000	70,000	70,000	71,000	49,500	65,000	75,000	80,000	80,000	65,000	71,000	80,000	92,000
Asian/Pacific Islander	64,800	48,000	61,000	70,000	72,000	59,100	45,000	59,000	64,000	63,000	68,000	55,000	60,000	70,000	75,000	78,000	56,000	72,000	76,000	90,000
Black, non-Hispanic	58,000	45,000	57,000	65,000	70,000	56,000	45,000	56,300	64,000	65,000	62,000	53,000	60,000	70,000	S	67,500	S	55,000	70,000	80,000
Hispanic	58,000	46,000	55,000	63,000	74,000	56,000	46,000	55,000	60,000	68,500	62,000	45,000	55,000	66,000	75,000	67,000	S	59,000	67,000	85,000
American Indian/Alaskan Native	57,000	S	52,000	60,000	S	55,000	S	S	S	S	S	S	S	S	S	83,000	S	S	S	S
Non-S&E occupations	50,000	30,000	48,000	55,000	57,000	41,800	30,000	42,500	48,000	50,000	53,000	35,000	50,000	57,000	55,000	70,200	45,000	60,000	70,000	75,000
White, non-Hispanic	50,000	30,000	49,000	59,000	60,000	43,000	30,000	44,000	50,000	52,000	55,000	35,000	50,000	59,000	56,000	72,000	35,000	60,000	72,000	77,000
Asian/Pacific Islander	46,800	36,000	50,000	50,000	50,000	40,000	35,000	45,000	40,000	43,000	54,000	46,000	55,000	60,000	53,600	75,000	S	56,000	85,000	80,000
Black, non-Hispanic	40,000	29,000	38,300	43,000	48,000	35,000	28,000	35,000	38,000	40,000	45,000	29,000	42,000	48,000	48,000	60,000	S	64,300	59,700	60,000
Hispanic	41,000	30,500	42,000	49,000	53,000	36,000	30,000	38,000	42,000	44,000	49,000	35,000	41,000	54,000	57,000	70,000	S	56,000	70,000	70,000
American Indian/Alaskan Native	40,000	27,000	45,500	40,000	52,000	36,800	27,000	39,000	38,000	50,000	45,000	S	S	40,000	52,000	50,000	S	S	52,500	65,000

S data with unweighted sample sizes less than 20 are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes "other" race/ethnicity not shown separately.

[b]Total includes first-professional degrees not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Median salaries are rounded to nearest hundred dollars.

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

Appendix table 6-15

Median annual salary of full-time employed scientists and engineers, by broad occupation, age group, sex, and race/ethnicity: 1999

(Dollars)

Occupation and age	All races/ethnicities[a]			Whites, non-Hispanic			Asians/Pacific Islanders			Blacks, non-Hispanic			Hispanics			American Indians/ Alaskan Natives		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
All occupations	54,500	60,000	40,400	55,000	62,000	41,000	56,000	60,000	46,000	43,000	48,800	38,500	45,000	52,000	37,000	42,500	50,000	35,000
29 or younger	34,000	39,000	30,000	33,900	38,000	30,000	42,000	46,000	38,000	30,000	35,000	29,000	32,000	36,000	30,000	30,000	35,000	26,000
30–39	53,000	59,000	43,000	54,000	60,000	43,200	60,000	61,800	52,000	42,000	49,000	38,000	47,500	51,300	40,000	47,500	49,000	40,000
40–49	60,000	67,500	46,000	62,000	69,000	47,000	61,000	67,000	52,000	45,000	50,000	42,000	53,000	58,400	45,000	42,000	49,800	37,500
50 or older	60,000	68,400	46,000	62,300	70,000	47,000	60,000	68,000	46,000	50,000	53,000	45,000	55,000	60,000	43,000	54,000	57,000	50,000
S&E occupations	60,000	64,000	50,300	61,000	65,000	50,000	63,000	65,000	57,500	53,000	55,000	48,000	55,000	58,000	45,000	50,000	53,000	42,000
29 or younger	43,000	45,000	38,000	42,000	44,900	36,000	50,000	51,000	45,000	44,500	45,000	41,000	42,000	45,000	33,000	36,000	45,000	S
30–39	60,000	60,000	52,000	60,000	60,000	50,000	62,000	63,000	60,000	51,600	52,500	50,000	55,000	56,000	50,000	49,000	48,000	52,500
40–49	67,000	70,000	58,000	67,900	70,000	57,000	69,000	70,000	64,000	57,000	58,000	55,000	60,000	62,000	50,000	45,000	60,000	43,100
50 or older	70,000	71,400	55,000	70,000	72,000	56,000	70,000	70,000	60,000	59,000	60,000	50,000	60,000	68,500	45,000	70,000	70,000	64,000
Computer and mathematical scientists	64,000	66,000	58,000	65,000	66,500	57,000	65,000	68,000	62,700	54,000	55,000	50,000	59,000	60,000	56,000	54,000	55,000	S
29 or younger	50,000	52,800	47,000	50,000	50,000	47,000	58,000	59,000	55,000	45,000	50,000	44,000	50,000	50,000	51,000	S	S	S
30–39	63,000	65,000	58,000	63,000	65,000	57,500	65,000	70,000	62,000	54,000	53,200	54,000	60,000	60,000	58,600	33,000	S	S
40–49	68,500	70,000	60,000	69,200	70,000	60,000	71,100	76,500	69,000	55,900	60,000	54,000	65,000	68,000	57,000	S	S	S
50 or older	66,000	70,000	60,000	67,000	70,000	60,000	68,000	70,000	60,000	60,000	59,000	66,000	53,500	60,000	S	S	S	S
Life and related scientists	49,000	52,000	40,000	50,000	52,700	40,000	48,000	52,000	42,000	44,000	51,000	36,000	36,000	40,000	34,000	39,000	36,000	46,100
29 or younger	26,000	25,000	26,000	26,000	25,000	27,000	29,000	32,000	26,000	S	S	S	20,000	S	23,700	S	S	S
30–39	40,000	42,000	38,000	40,000	41,800	37,000	46,300	47,700	46,300	41,000	47,100	35,000	40,000	38,000	40,000	39,000	S	S
40–49	54,300	55,000	54,000	55,000	56,000	55,000	53,500	56,000	51,200	44,300	47,000	40,000	47,000	48,000	40,000	S	S	S
50 or older	62,000	67,000	49,300	63,000	67,000	49,300	67,000	70,000	50,000	56,800	57,000	42,000	46,000	80,500	S	S	S	S
Physical and related scientists	52,000	56,600	41,400	53,000	58,000	41,000	55,000	60,000	50,000	43,000	43,000	43,000	43,000	46,000	30,000	48,000	48,500	S
29 or younger	31,000	28,000	32,000	30,000	28,000	32,000	36,000	36,000	S	29,000	S	S	29,000	28,800	S	S	S	S
30–39	48,000	50,000	41,400	47,500	50,000	40,000	55,000	54,000	55,000	41,700	45,000	38,000	39,000	46,000	26,800	S	S	S
40–49	60,000	62,500	51,000	60,500	63,000	50,000	60,000	64,000	55,000	44,700	38,000	S	46,600	48,000	S	S	S	S
50 or older	68,900	71,000	50,000	69,900	72,000	49,000	60,000	71,600	52,000	53,000	55,000	S	70,000	76,000	S	S	S	S
Social and related scientists	47,100	54,000	40,000	48,000	55,000	41,000	48,500	60,000	36,000	40,000	45,000	38,000	40,000	46,000	38,000	50,000	49,000	52,500
29 or younger	29,000	30,000	28,000	28,500	29,000	28,000	32,000	S	30,000	19,000	S	S	26,000	S	24,000	S	S	S
30–39	40,000	46,000	37,000	40,000	46,000	37,000	47,800	52,000	36,000	30,000	27,000	30,000	42,000	46,000	38,000	S	S	S
40–49	51,000	55,300	46,700	51,000	55,300	47,000	60,000	67,000	50,000	45,000	45,000	48,000	42,000	54,800	42,000	47,000	S	S
50 or older	59,000	62,000	52,800	59,700	63,000	53,000	62,500	68,000	50,000	52,000	60,000	40,600	45,000	62,000	45,000	53,000	S	S

See explanatory information and SOURCE at end of table.

Appendix table 6-15

Median annual salary of full-time employed scientists and engineers, by broad occupation, age group, sex, and race/ethnicity: 1999

(Dollars)

Occupation and age	All races/ethnicities[a]			Whites, non-Hispanic			Asians/Pacific Islanders			Blacks, non-Hispanic			Hispanics			American Indians/ Alaskan Natives		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Engineers	65,000	65,000	55,700	65,000	65,900	55,000	64,800	65,000	60,000	58,000	59,000	57,000	58,000	59,000	52,000	57,000	60,000	S
29 or younger	46,000	46,000	45,000	45,000	45,000	45,000	48,000	49,000	47,000	45,000	45,000	46,800	46,000	46,000	43,000	S	S	S
30–39	60,000	60,000	58,200	60,000	61,000	58,000	61,000	60,000	64,000	57,000	57,000	57,000	55,000	55,000	55,000	52,000	52,000	S
40–49	70,000	70,000	64,000	70,000	71,500	63,000	70,000	70,000	60,000	65,000	63,000	S	63,000	63,000	59,500	60,000	S	S
50 or older	74,500	75,000	66,000	75,000	75,000	66,000	72,000	72,000	60,000	70,000	70,000	S	74,000	74,000	S	S	S	S
Non-S&E occupations	50,000	60,000	38,500	50,000	60,000	39,000	46,800	52,000	40,000	40,000	45,000	37,000	41,000	48,000	35,000	40,000	49,000	32,000
29 or younger	30,000	34,000	29,100	30,000	34,000	29,000	36,000	36,500	35,000	29,000	31,000	28,000	30,500	32,500	30,000	27,000	33,000	24,000
30–39	48,000	54,500	40,000	49,000	55,000	40,000	50,000	59,000	44,000	38,300	44,000	35,000	42,000	45,000	36,000	45,500	50,000	36,800
40–49	55,000	65,000	43,000	59,000	67,700	44,000	50,000	59,000	41,000	43,000	45,000	41,400	49,000	55,000	45,000	40,000	45,000	37,500
50 or older	57,000	65,000	43,600	60,000	66,000	44,000	50,000	56,000	42,000	48,000	50,000	44,000	53,000	58,000	42,900	52,000	52,000	42,000

S data with unweighted sample sizes less than 20 are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes "other" race/ethnicity not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Median salaries are rounded to nearest hundred dollars.

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

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002

Appendix table 6-16

Median annual salary of full-time employed scientists and engineers, by broad occupation, age group, disability status, and highest degree level: 1999

(Dollars)

Occupation and age	All degree levels[a]			Bachelor's			Master's			Doctorate		
	Total	Without disabilities	With disabilities	Total	Without disabilities	With disabilities	Total	Without disabilities	With disabilities	Total	Without disabilities	With disabilities
All occupations	54,500	55,000	52,000	49,000	49,000	48,800	58,000	58,000	53,000	70,000	70,000	70,000
29 or younger	34,000	34,100	31,000	32,700	33,000	30,000	38,500	39,000	35,000	49,000	52,000	S
30–39	53,000	53,000	48,000	50,000	50,000	45,000	56,000	56,000	45,000	60,000	60,000	55,500
40–49	60,000	60,700	52,000	55,000	55,800	48,000	61,300	62,000	57,500	69,000	70,000	65,000
50 or older	60,000	62,000	55,000	56,000	57,200	52,000	60,000	60,000	53,000	76,000	77,000	72,000
S&E occupations	60,000	60,000	61,600	59,000	59,000	60,000	64,000	64,000	63,000	70,000	70,000	72,500
29 or younger	43,000	43,000	42,000	42,000	42,000	40,000	45,000	45,000	46,000	50,000	50,000	S
30–39	60,000	60,000	55,000	58,200	58,500	54,000	60,000	60,000	56,000	60,000	60,000	64,000
40–49	67,000	67,000	63,800	65,000	65,000	60,000	70,000	70,000	73,600	68,000	68,000	70,000
50 or older	70,000	70,000	65,000	66,000	67,000	63,000	69,300	70,000	65,000	77,000	78,000	75,000
Computer/mathematical scientists	64,000	64,000	63,000	60,800	60,700	61,800	68,000	68,000	65,000	72,000	72,000	68,000
29 or younger	50,000	50,000	52,000	50,000	50,000	S	59,000	60,000	S	65,000	65,000	S
30–39	63,000	63,000	60,000	61,000	61,000	60,000	65,000	65,000	68,000	66,000	67,000	60,000
40–49	68,500	69,000	65,000	65,000	66,000	63,000	72,000	72,000	73,600	75,000	75,000	72,000
50 or older	66,000	66,800	64,700	64,000	64,000	64,700	69,000	69,100	62,000	74,500	75,000	68,000
Life and related scientists	49,000	48,000	54,000	37,000	36,000	44,700	43,800	43,000	45,000	67,000	67,000	70,000
29 or younger	26,000	26,000	S	25,000	25,000	S	28,100	28,100	S	29,000	29,000	S
30–39	40,000	40,000	40,000	36,000	36,000	S	38,000	39,000	S	54,000	54,000	55,000
40–49	54,300	54,000	55,000	46,000	46,000	S	50,300	50,000	S	65,000	65,000	65,000
50 or older	62,000	65,000	55,000	50,000	51,000	S	49,300	49,300	S	78,000	78,500	72,000
Physical and related scientists	52,000	52,000	52,000	45,000	45,000	48,800	52,000	53,000	45,000	71,000	70,200	75,000
29 or younger	31,000	31,000	S	30,000	30,000	S	29,000	28,500	S	50,000	50,000	S
30–39	48,000	49,000	40,000	41,600	41,700	S	48,000	50,000	S	60,000	60,000	47,000
40–49	60,000	60,000	52,000	52,000	53,400	S	60,000	60,000	S	71,000	70,300	78,000
50 or older	68,900	70,000	60,000	55,200	55,900	S	62,000	62,000	S	80,000	80,000	77,200
Social and related scientists	47,100	47,000	50,000	30,000	30,000	S	41,000	41,000	40,000	60,000	60,000	65,000
29 or younger	29,000	29,000	S	28,000	28,000	S	30,000	30,000	S	40,600	38,000	S
30–39	40,000	40,000	35,000	30,000	30,000	S	36,000	36,000	S	48,000	48,000	73,000
40–49	51,000	50,200	59,000	45,000	45,000	S	46,000	45,000	S	56,000	56,000	60,000
50 or older	59,000	60,000	56,000	S	S	S	50,000	50,000	S	66,000	66,000	67,000

See explanatory information and SOURCE at end of table.

Appendix table 6-16

Median annual salary of full-time employed scientists and engineers, by broad occupation, age group, disability status, and highest degree level: 1999

(Dollars)

Occupation and age	All degree levels[a]			Bachelor's			Master's			Doctorate		
	Total	Without disabilities	With disabilities	Total	Without disabilities	With disabilities	Total	Without disabilities	With disabilities	Total	Without disabilities	With disabilities
Engineers	65,000	65,000	67,000	60,000	60,000	61,800	70,000	70,000	75,000	80,000	79,000	86,000
29 or younger	46,000	46,000	41,000	45,000	45,000	41,000	50,000	50,000	S	62,000	62,000	S
30–39	60,000	60,000	56,000	59,900	60,000	55,000	64,000	64,000	57,000	70,600	70,200	75,000
40–49	70,000	70,000	66,500	68,500	69,000	65,000	75,000	75,000	75,000	78,700	78,000	85,000
50 or older	74,500	75,000	72,000	70,000	70,000	67,600	79,100	79,000	84,500	90,000	90,000	95,000
Non-S&E occupations	50,000	50,000	47,000	41,800	41,600	42,000	53,000	54,000	50,000	70,200	72,000	60,000
29 or younger	30,000	30,000	28,000	30,000	30,000	27,000	35,000	35,000	S	45,000	60,000	S
30–39	48,000	48,000	40,000	42,500	42,900	40,000	50,000	50,000	38,000	60,000	60,000	S
40–49	55,000	56,200	48,000	48,000	49,000	43,000	57,000	58,000	53,000	70,000	72,000	54,000
50 or older	57,000	59,000	50,000	50,000	50,000	45,000	55,000	56,000	50,000	75,000	75,000	66,500

S data with unweighted sample sizes less than 20 are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes first-professional degrees not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Median salaries are rounded to nearest hundred dollars.

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

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002

Appendix table 6-17

Primary education, employment status, and median salary of recipients of S&E bachelor's degrees in 1996/97 and 1997/98, by broad field of degree, sex, race/ethnicity, and disability status: 1999

Field of degree, sex, race/ethnicity, and disability status	All S&E bachelor's degree recipients	Primary education and employment status in April 1999				Median salary for full-time employed[a]
		Full-time student	Not full-time student			
			Employed in an S&E occupation	Employed in a non-S&E occupation	Not employed	
	Number					Dollars
All S&E fields	743,400	165,500	161,900	377,300	38,800	30,000
Male	366,800	77,900	112,900	162,300	13,700	35,000
Female	376,600	87,600	49,000	215,000	25,100	26,600
White, non-Hispanic	561,300	121,900	119,900	292,600	26,900	30,000
Asian/Pacific Islander	71,600	19,400	21,700	26,100	4,400	36,000
Black, non-Hispanic	51,600	10,600	8,300	29,900	2,900	29,000
Hispanic	54,100	12,300	11,500	26,500	3,900	30,000
American Indian/Alaskan Native	4,800	S	500	2,300	S	24,000
Without disabilities	715,600	159,500	157,300	362,400	36,300	30,000
With disabilities	27,900	5,900	4,500	14,900	S	27,300
Sciences	628,800	150,800	83,100	359,300	35,500	27,900
Male	274,800	66,900	48,500	147,900	11,400	30,000
Female	354,000	83,900	34,600	211,400	24,200	26,000
White, non-Hispanic	478,100	112,600	60,200	280,600	24,800	27,000
Asian/Pacific Islander	54,300	15,500	11,400	23,600	3,700	32,500
Black, non-Hispanic	45,800	9,900	5,100	27,900	2,800	27,000
Hispanic	46,200	11,700	6,200	24,900	3,400	28,000
American Indian/Alaskan Native	4,300	S	S	2,200	S	24,000
Without disabilities	604,000	145,600	80,600	344,700	33,100	28,000
With disabilities	24,800	5,200	2,500	14,600	S	26,000
Computer/math sciences	69,800	7,100	30,900	29,000	2,700	41,000
Male	46,900	5,000	22,500	17,800	S	43,000
Female	22,900	2,100	8,400	11,200	S	38,000
White, non-Hispanic	49,200	4,900	21,400	20,800	S	41,000
Asian/Pacific Islander	9,200	S	4,100	3,800	S	42,000
Black, non-Hispanic	6,500	S	2,900	2,700	S	38,000
Hispanic	4,600	S	2,500	1,600	S	44,000
American Indian/Alaskan Native	S	S	S	S	S	S
Without disabilities	66,700	6,700	29,700	27,600	2,700	41,500
With disabilities	3,100	S	S	S	S	34,000
Life and related sciences	164,000	54,300	20,900	79,100	9,800	25,000
Male	73,000	25,000	9,000	36,000	2,900	26,500
Female	91,100	29,300	11,800	43,100	6,900	25,000
White, non-Hispanic	123,300	37,900	15,500	63,700	6,200	25,000
Asian/Pacific Islander	21,200	9,700	S	6,400	S	28,000
Black, non-Hispanic	9,000	3,100	S	4,600	S	25,000
Hispanic	9,700	3,400	S	4,100	S	28,000
American Indian/Alaskan Native	S	S	S	S	S	S
Without disabilities	158,100	51,800	20,200	76,900	9,100	25,000
With disabilities	6,000	S	S	S	S	S

See explanatory information and SOURCE at end of table.

Appendix table 6-17

Primary education, employment status, and median salary of recipients of S&E bachelor's degrees in 1996/97 and 1997/98, by broad field of degree, sex, race/ethnicity, and disability status: 1999

Field of degree, sex, race/ethnicity, and disability status	All S&E bachelor's degree recipients	Primary education and employment status in April 1999				Median salary for full-time employed[a]
		Full-time student	Not full-time student			
			Employed in an S&E occupation	Employed in a non-S&E occupation	Not employed	
	Number					Dollars
Physical and related sciences	36,500	12,600	11,100	11,900	1,000	28,500
Male	22,500	7,500	7,400	7,000	S	30,000
Female	14,100	5,100	3,600	4,900	S	27,500
White, non-Hispanic	29,800	10,000	9,100	9,900	800	28,000
Asian/Pacific Islander	2,900	1,400	S	S	S	31,000
Black, non-Hispanic	2,100	800	500	700	S	30,000
Hispanic	1,600	400	S	700	S	26,400
American Indian/Alaskan Native	S	S	S	S	S	S
Without disabilities	35,400	12,200	10,800	11,500	900	28,500
With disabilities	1,200	S	S	S	S	S
Social and related sciences	358,500	76,800	20,300	239,300	22,000	26,500
Male	132,500	29,400	9,600	87,000	6,400	30,000
Female	226,000	47,400	10,800	152,300	15,600	25,000
White, non-Hispanic	275,800	59,800	14,300	186,300	15,500	26,000
Asian/Pacific Islander	21,000	S	S	13,100	S	31,000
Black, non-Hispanic	28,200	5,300	S	19,900	2,100	26,000
Hispanic	30,300	7,500	1,900	18,500	2,400	27,000
American Indian/Alaskan Native	3,100	S	S	S	S	S
Without disabilities	343,900	74,900	19,900	228,600	20,400	26,600
With disabilities	14,600	S	S	10,700	S	25,000
Engineering	114,600	14,600	78,700	18,000	3,300	42,500
Male	92,000	10,900	64,400	14,400	2,300	43,000
Female	22,600	3,700	14,400	3,600	900	42,000
White, non-Hispanic	83,100	9,400	59,700	12,000	2,100	42,000
Asian/Pacific Islander	17,300	3,900	10,300	2,500	S	45,000
Black, non-Hispanic	5,800	700	3,100	2,000	S	40,000
Hispanic	7,900	600	5,300	1,600	400	42,000
American Indian/Alaskan Native	400	S	S	S	S	S
Without disabilities	111,500	13,900	76,700	17,700	3,200	42,000
With disabilities	3,100	S	2,000	S	S	48,000

S data with weighted values less than 100 or unweighted sample sizes less than 20 are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Salary data exclude the self-employed and full-time students, and are for principal job only. Full-time employment is defined as working at one's principal job at least 35 hours a week.

NOTES: Includes all those who received S&E bachelor's degrees between July 1996 and June 1998. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding. Totals include those of other or unknown race/ethnicity.

SOURCE: National Science Foundation, Division of Science Resources Statistics, National Survey of Recent College Graduates.

Appendix table 6-18

Primary education, employment status, and median salary of recipients of S&E master's degrees in 1996/97 and 1997/98, by broad field of degree, sex, race/ethnicity, and disability status: 1999

Field of degree, sex, race/ethnicity, and disability status	All S&E master's degree recipients	Primary education and employment status in April 1999				Median salary for full-time employed[a]
		Full-time student	Not full-time student			
			Employed in an S&E occupation	Employed in a non-S&E occupation	Not employed	
	Number					Dollars
All S&E fields	157,000	32,100	71,800	46,300	6,800	46,000
Male	91,700	20,400	49,800	18,900	2,600	50,200
Female	65,300	11,800	22,100	27,400	4,100	38,000
White, non-Hispanic	104,400	21,400	44,500	33,900	4,600	43,000
Asian/Pacific Islander	35,800	7,500	21,400	5,500	1,400	55,000
Black, non-Hispanic	8,400	1,500	2,500	4,100	S	42,000
Hispanic	7,700	1,600	3,300	2,600	S	40,000
American Indian/Alaskan Native	S	S	S	S	S	S
Without disabilities	149,900	31,000	68,600	44,500	5,800	46,000
With disabilities	7,100	1,100	3,200	1,800	S	46,000
Sciences	110,400	24,300	39,400	41,200	5,500	40,000
Male	53,600	13,900	22,700	15,000	2,000	46,000
Female	56,800	10,400	16,700	26,200	3,500	36,000
White, non-Hispanic	77,200	17,300	24,800	30,700	4,300	38,000
Asian/Pacific Islander	20,000	4,400	10,900	4,100	S	54,000
Black, non-Hispanic	6,800	1,100	1,500	3,900	S	40,000
Hispanic	5,700	1,200	2,000	2,300	S	37,200
American Indian/Alaskan Native	S	S	S	S	S	S
Without disabilities	104,900	23,300	37,200	39,600	4,700	40,000
With disabilities	5,500	S	2,200	1,600	S	40,000
Computer/math sciences	27,200	3,300	17,400	5,400	S	55,000
Male	18,500	2,500	12,000	3,300	S	56,700
Female	8,700	S	5,400	2,100	S	53,000
White, non-Hispanic	13,200	2,200	7,300	3,100	S	52,500
Asian/Pacific Islander	12,000	S	8,900	2,000	S	57,000
Black, non-Hispanic	1,000	S	600	S	S	53,500
Hispanic	700	S	S	S	S	S
American Indian/Alaskan Native	S	S	S	S	S	S
Without disabilities	25,400	2,900	16,300	5,400	S	55,000
With disabilities	1,800	S	S	S	S	58,000
Life and related sciences	16,600	4,900	5,000	6,000	S	34,000
Male	9,100	3,600	2,500	2,700	S	36,000
Female	7,500	1,400	2,500	3,300	S	33,000
White, non-Hispanic	12,200	3,000	4,000	4,800	S	35,000
Asian/Pacific Islander	3,000	1,700	S	S	S	S
Black, non-Hispanic	600	S	S	S	S	S
Hispanic	700	S	S	S	S	S
American Indian/Alaskan Native	S	S	S	S	S	S
Without disabilities	16,400	4,900	5,000	6,000	S	34,000
With disabilities	S	S	S	S	S	S

See explanatory information and SOURCE at end of table.

Appendix table 6-18

Primary education, employment status, and median salary of recipients of S&E master's degrees in 1996/97 and 1997/98, by broad field of degree, sex, race/ethnicity, and disability status: 1999

Field of degree, sex, race/ethnicity, and disability status	All S&E master's degree recipients	Primary education and employment status in April 1999				Median salary for full-time employed[a]
		Full-time student	Not full-time student			
			Employed in an S&E occupation	Employed in a non-S&E occupation	Not employed	
	Number					Dollars
Physical and related sciences	9,100	2,900	4,100	1,600	S	41,600
Male	5,800	2,100	2,900	700	S	42,000
Female	3,200	800	1,200	900	S	40,000
White, non-Hispanic	6,500	2,000	3,000	1,300	S	40,000
Asian/Pacific Islander	1,800	800	S	S	S	47,000
Black, non-Hispanic	S	S	S	S	S	S
Hispanic	400	S	S	S	S	S
American Indian/Alaskan Native	S	S	S	S	S	S
Without disabilities	8,800	2,800	4,000	1,600	S	41,600
With disabilities	S	S	S	S	S	S
Social and related sciences	57,600	13,100	12,800	28,100	3,500	35,000
Male	20,200	5,800	5,200	8,200	S	40,000
Female	37,400	7,300	7,500	19,900	2,600	33,000
White, non-Hispanic	45,200	10,200	10,600	21,500	2,900	34,500
Asian/Pacific Islander	3,100	S	S	S	S	36,000
Black, non-Hispanic	4,900	900	S	3,300	S	35,600
Hispanic	3,900	S	1,100	1,900	S	37,000
American Indian/Alaskan Native	S	S	S	S	S	S
Without disabilities	54,300	12,600	12,000	26,700	3,000	36,000
With disabilities	3,300	S	S	1,500	S	29,000
Engineering	46,700	7,900	32,500	5,100	1,300	55,000
Male	38,100	6,500	27,100	3,900	700	55,000
Female	8,500	1,400	5,400	1,200	S	50,000
White, non-Hispanic	27,200	4,000	19,600	3,200	S	54,000
Asian/Pacific Islander	15,800	3,100	10,400	1,400	S	57,000
Black, non-Hispanic	1,600	S	1,000	S	S	53,000
Hispanic	2,000	S	1,300	S	S	47,000
American Indian/Alaskan Native	S	S	S	S	S	S
Without disabilities	45,000	7,700	31,400	4,800	1,100	55,000
With disabilities	1,600	S	1,100	S	S	52,000

S data with weighted values less than 100 or unweighted sample sizes less than 20 are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Salary data exclude the self-employed and full-time students, and are for principal job only. Full-time employment is defined as working at one's principal job at least 35 hours a week.

NOTES: Includes all those who received S&E master's degrees between July 1996 and June 1998. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding. Totals include those of other or unknown race/ethnicity.

SOURCE: National Science Foundation, Division of Science Resources Statistics, National Survey of Recent College Graduates.

Appendix table 6-19

Employment status and median salary of recipients of S&E doctoral degrees in 1996/97 and 1997/98, by broad field of doctorate, sex, race/ethnicity, and disability status: 1999

Field of degree, sex, race/ethnicity, and disability status	All S&E doctorate recipients[a]	Employment status					Median salary for full-time employed[c]
		Employed			Not employed		
		Full time	Part time	Postdoctoral appointment[b]	Not employed, seeking work	Not employed and not seeking work	
	Number						Dollars
All S&E fields	50,300	32,700	2,300	13,200	600	1,500	55,200
Male	32,300	23,000	800	7,800	200	400	59,500
Female	18,000	9,700	1,500	5,400	400	1,000	48,900
White, non-Hispanic	33,600	22,200	1,900	8,200	400	900	52,000
Asian/Pacific Islander	12,900	8,100	200	4,000	100	400	63,000
Black, non-Hispanic	1,600	1,100	100	300	S	S	45,000
Hispanic	1,900	1,100	100	700	S	100	50,000
American Indian/Alaskan Native	200	100	S	100	S	S	52,000
Without disabilities	48,700	31,600	2,200	13,000	500	1,400	55,500
With disabilities	1,600	1,100	100	200	S	S	55,000
Sciences	39,800	23,600	2,200	12,200	400	1,300	50,000
Male	23,100	14,900	700	7,000	100	400	51,000
Female	16,600	8,700	1,400	5,200	300	900	46,400
White, non-Hispanic	27,900	17,300	1,800	7,700	300	900	48,000
Asian/Pacific Islander	8,800	4,400	200	3,700	100	400	60,000
Black, non-Hispanic	1,400	1,000	100	300	S	S	44,400
Hispanic	1,500	800	100	600	S	100	40,000
American Indian/Alaskan Native	200	100	S	100	S	S	48,000
Without disabilities	38,500	22,700	2,000	12,000	400	1,300	50,000
With disabilities	1,300	900	100	200	S	S	52,000
Computer/math sciences	3,600	2,800	200	500	S	S	60,000
Male	2,800	2,300	S	400	S	S	60,000
Female	700	500	100	100	S	S	58,000
White, non-Hispanic	2,300	1,700	100	400	S	S	55,000
Asian/Pacific Islander	1,100	1,000	S	100	S	S	66,000
Black, non-Hispanic	100	S	S	S	S	S	S
Hispanic	100	100	S	S	S	S	65,000
American Indian/Alaskan Native	S	S	S	S	S	S	S
Without disabilities	3,400	2,600	100	500	S	S	60,000
With disabilities	200	200	S	S	S	S	47,500
Life and related sciences	15,500	6,800	500	7,300	200	600	47,000
Male	8,400	4,000	100	4,000	S	200	46,000
Female	7,000	2,900	400	3,300	100	400	50,000
White, non-Hispanic	10,100	5,000	400	4,300	100	300	46,000
Asian/Pacific Islander	4,200	1,300	100	2,500	S	300	52,000
Black, non-Hispanic	500	300	S	100	S	S	43,000
Hispanic	600	300	S	300	S	S	44,400
American Indian/Alaskan Native	100	S	S	S	S	S	S
Without disabilities	15,000	6,600	500	7,200	100	600	47,000
With disabilities	400	200	S	100	S	S	52,000

See explanatory information and SOURCE at end of table.

Appendix table 6-19

Employment status and median salary of recipients of S&E doctoral degrees in 1996/97 and 1997/98, by broad field of doctorate, sex, race/ethnicity, and disability status: 1999

Field of degree, sex, race/ethnicity, and disability status	All S&E doctorate recipients[a]	Employment status					Median salary for full-time employed[c]
		Employed			Not employed		
		Full time	Part time	Postdoctoral appointment[b]	Not employed, seeking work	Not employed and not seeking work	
	Number						Dollars
Physical and related sciences	8,300	4,900	200	3,000	S	100	60,000
Male	6,400	3,900	200	2,300	S	S	60,000
Female	1,800	1,000	S	700	S	100	58,000
White, non-Hispanic	5,600	3,400	200	1,900	S	100	59,500
Asian/Pacific Islander	2,300	1,300	S	900	S	S	61,300
Black, non-Hispanic	200	100	S	S	S	S	57,000
Hispanic	200	100	S	100	S	S	36,000
American Indian/Alaskan Native	S	S	S	S	S	S	S
Without disabilities	8,100	4,800	200	2,900	S	100	60,000
With disabilities	200	200	S	100	S	S	58,000
Social and related sciences	12,500	9,000	1,300	1,400	200	500	45,000
Male	5,400	4,700	300	300	S	S	45,000
Female	7,000	4,400	900	1,100	200	500	44,000
White, non-Hispanic	9,900	7,200	1,100	1,100	200	400	44,100
Asian/Pacific Islander	1,200	900	100	100	S	100	57,000
Black, non-Hispanic	700	600	S	100	S	S	41,800
Hispanic	600	400	100	100	S	S	36,000
American Indian/Alaskan Native	100	S	S	S	S	S	S
Without disabilities	12,000	8,700	1,200	1,400	200	500	45,000
With disabilities	500	300	S	S	S	S	45,000
Engineering	10,500	9,100	100	1,000	100	100	67,000
Male	9,100	8,200	S	800	S	100	67,000
Female	1,400	1,000	100	200	S	S	65,000
White, non-Hispanic	5,700	5,000	100	500	S	S	66,300
Asian/Pacific Islander	4,100	3,700	S	300	S	S	68,000
Black, non-Hispanic	200	100	S	100	S	S	70,000
Hispanic	500	300	S	100	S	S	65,000
American Indian/Alaskan Native	S	S	S	S	S	S	S
Without disabilities	10,300	8,900	100	1,000	100	100	67,000
With disabilities	300	300	S	S	S	S	65,000

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes "other" race/ethnicity not shown separately because of too few cases.

[b]Postdoctoral appointments are reported separately from full-time and part-time employment.

[c]Salary data exclude the self-employed and full-time students, and are for principal job only. Full-time employment is defined as working at one's principal job at least 35 hours a week.

NOTES: Figures are rounded to the nearest hundred. Details may not add to totals because of rounding.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients.

Appendix table 6-20

Career-path job search limitations of recipients of S&E doctoral degrees in 1996/97 and 1997/98, by broad field of doctorate, sex, race/ethnicity, and disability status: 1999

Field of degree, sex, race/ethnicity, and disability status	All S&E doctorate recipients[a]	Total who sought or held a career-path job	Career-path job search limited "a great deal" or "somewhat" by…				
			Family responsibilities	Spouse's career or employment	Debt burden from undergraduate or graduate degrees	Desire to not relocate or move to place of job	Suitable job not available
	Number		Percent citing limitation				
All S&E fields	50,300	44,400	38.8	36.8	17.4	37.6	37.6
Male	32,300	28,200	39.5	31.4	17.2	33.9	38.4
Female	18,000	16,200	37.4	46.2	17.7	44.0	36.1
White, non-Hispanic	33,600	31,000	38.4	37.6	18.3	40.8	34.7
Asian/Pacific Islander	12,900	10,000	40.6	36.5	11.8	28.8	47.0
Black, non-Hispanic	1,600	1,400	30.3	25.9	26.5	31.2	31.0
Hispanic	1,900	1,800	38.4	31.1	25.3	34.7	38.7
American Indian/Alaskan Native	200	200	39.3	31.5	S	30.3	29.3
Without disabilities	48,700	42,900	39.0	36.9	17.4	37.5	37.7
With disabilities	1,600	1,500	33.3	33.8	18.0	41.0	35.0
Sciences	39,800	35,100	39.2	37.7	18.6	38.2	38.7
Male	23,100	20,100	40.8	32.3	18.9	33.7	40.3
Female	16,600	15,000	37.1	44.9	18.2	44.2	36.5
White, non-Hispanic	27,900	25,700	38.2	38.0	19.6	41.0	36.4
Asian/Pacific Islander	8,800	6,600	45.0	39.8	10.9	29.4	48.4
Black, non-Hispanic	1,400	1,300	28.1	24.5	27.6	29.9	30.8
Hispanic	1,500	1,400	35.5	31.3	26.7	32.5	38.9
American Indian/Alaskan Native	200	100	68.3	S	S	S	58.7
Without disabilities	38,500	33,900	39.4	37.7	18.6	38.0	38.8
With disabilities	1,300	1,200	32.9	36.9	17.7	43.7	34.8
Computer/math sciences	3,600	2,900	41.4	40.5	10.0	43.7	33.4
Male	2,800	2,300	43.0	37.8	11.9	44.6	34.7
Female	700	600	35.3	51.0	S	40.3	28.3
White, non-Hispanic	2,300	2,000	41.8	41.4	9.2	43.8	33.7
Asian/Pacific Islander	1,100	800	38.6	37.1	9.0	43.9	31.5
Black, non-Hispanic	100	100	S	S	S	S	S
Hispanic	100	100	S	S	S	S	S
American Indian/Alaskan Native	S	S	S	S	S	S	S
Without disabilities	3,400	2,800	41.8	40.5	10.4	43.4	31.7
With disabilities	200	200	S	S	S	25.1	39.6
Life and related sciences	15,500	13,400	42.6	40.5	18.7	36.5	34.4
Male	8,400	7,200	44.8	34.3	21.7	30.6	36.1
Female	7,000	6,200	39.9	47.7	15.2	43.5	32.5
White, non-Hispanic	10,100	9,300	38.8	38.1	21.3	39.1	28.1
Asian/Pacific Islander	4,200	3,000	55.1	52.4	10.4	31.7	53.6
Black, non-Hispanic	500	400	41.1	28.5	S	30.6	31.2
Hispanic	600	600	36.5	28.4	28.3	23.0	35.2
American Indian/Alaskan Native	100	100	S	S	S	S	S
Without disabilities	15,000	13,000	42.9	40.8	18.8	36.9	34.9
With disabilities	400	400	31.8	30.7	16.1	25.8	18.4

See explanatory information and SOURCE at end of table.

Appendix table 6-20

Career-path job search limitations of recipients of S&E doctoral degrees in 1996/97 and 1997/98, by broad field of doctorate, sex, race/ethnicity, and disability status: 1999

Field of degree, sex, race/ethnicity, and disability status	All S&E doctorate recipients[a]	Total who sought or held a career-path job	Career-path job search limited "a great deal" or "somewhat" by…				
			Family responsibilities	Spouse's career or employment	Debt burden from undergraduate or graduate degrees	Desire to not relocate or move to place of job	Suitable job not available
	Number		Percent citing limitation				
Physical and related sciences	8,300	7,200	38.5	33.8	14.2	32.2	44.3
Male	6,400	5,600	40.5	30.2	13.7	30.4	42.3
Female	1,800	1,700	29.4	43.9	14.8	36.1	48.3
White, non-Hispanic	5,600	5,200	39.8	37.4	14.1	36.0	42.0
Asian/Pacific Islander	2,300	1,700	35.5	22.2	12.4	20.3	52.6
Black, non-Hispanic	200	100	S	51.5	62.1	S	S
Hispanic	200	100	S	51.6	S	70.1	59.2
American Indian/Alaskan Native	S	S	S	S	S	S	S
Without disabilities	8,100	7,000	38.0	33.6	14.0	32.0	43.8
With disabilities	200	200	52.6	S	S	36.2	62.2
Social and related sciences	12,500	11,600	35.2	36.1	23.2	42.4	41.5
Male	5,400	5,000	34.2	29.1	23.7	36.8	46.8
Female	7,000	6,500	36.5	41.9	23.3	47.3	38.0
White, non-Hispanic	9,900	9,300	35.4	37.0	23.0	44.6	41.8
Asian/Pacific Islander	1,200	1,000	40.1	38.4	12.3	29.3	43.7
Black, non-Hispanic	700	700	18.7	16.9	33.1	32.3	29.1
Hispanic	600	600	34.6	33.3	30.9	38.4	44.0
American Indian/Alaskan Native	100	S	S	S	S	S	S
Without disabilities	12,000	11,100	35.6	35.9	23.3	41.6	42.1
With disabilities	500	500	26.1	39.1	21.4	59.8	28.1
Engineering	10,500	9,300	37.2	33.4	12.9	35.4	33.3
Male	9,100	8,100	36.5	29.2	13.2	34.5	33.7
Female	1,400	1,200	41.5	62.1	11.4	41.3	30.2
White, non-Hispanic	5,700	5,300	39.6	36.0	12.1	39.7	26.2
Asian/Pacific Islander	4,100	3,400	32.3	29.9	13.7	27.5	44.3
Black, non-Hispanic	200	100	58.8	S	S	S	S
Hispanic	500	400	48.6	S	S	S	37.9
American Indian/Alaskan Native	S	S	S	S	S	S	S
Without disabilities	10,300	9,000	37.2	33.8	12.7	35.6	33.2
With disabilities	300	200	52.5	32.3	S	45.0	54.1

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

[a]Total includes "other" race/ethnicity not shown separately because of too few cases.

NOTES: Figures in first two columns are rounded to nearest hundred. Percentages add to more than 100 because respondents could select more than one limitation. Percentages are the proportion of total that sought or held a career-path job, which is a job that will help further one's career plans or is in a field in which the respondent wishes to make his or her career.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Doctorate Recipients.

Appendix table 6-21

Demographic characteristics of scientists and engineers, by highest degree level and sex: 1999

Characteristic	Total, all degree levels[a]			Bachelor's			Master's			Doctorate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Number of scientists and engineers	13,050,800	8,304,100	4,746,700	7,682,100	4,789,600	2,892,500	3,535,900	2,169,900	1,366,000	839,000	630,600	208,400
	Percent											
Age	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
29 or younger	13.6	10.6	18.8	19.2	15.3	25.7	6.3	5.1	8.3	1.3	1.0	2.2
30–39	22.6	21.1	25.3	23.8	22.6	25.9	21.0	19.9	22.8	19.0	17.1	24.8
40–49	28.2	27.8	28.9	26.7	27.0	26.3	29.5	27.8	32.3	27.4	25.5	33.2
50 or older	35.6	40.5	27.0	30.2	35.1	22.1	43.1	47.2	36.7	52.3	56.4	39.8
Race/ethnicity												
White, non-Hispanic	83.8	85.3	81.0	84.2	86.4	80.4	82.7	83.1	81.9	80.0	80.2	79.3
Asian/Pacific Islander	7.0	7.2	6.8	6.0	5.7	6.6	8.5	9.6	6.8	13.3	14.0	11.3
Black, non-Hispanic	5.2	3.9	7.4	5.4	4.0	7.6	5.4	4.1	7.7	3.5	2.8	5.5
Hispanic	3.6	3.3	4.3	4.0	3.5	4.9	3.1	2.9	3.4	2.8	2.6	3.5
American Indian/Alaskan Native	0.3	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Marital status												
Married	70.1	74.8	61.8	66.6	70.9	59.5	73.6	79.1	64.9	79.1	83.0	67.1
Widowed	1.4	0.9	2.2	1.4	1.0	2.0	1.6	0.9	2.8	1.2	0.9	1.9
Separated	1.0	0.9	1.3	1.0	0.8	1.3	1.1	0.8	1.5	1.1	1.0	1.4
Divorced	7.5	6.1	9.9	7.2	6.3	8.8	8.1	5.5	12.3	7.9	6.4	12.5
Never married	20.0	17.3	24.7	23.8	21.1	28.3	15.6	13.7	18.5	10.8	8.7	17.1
If married, spouse's employment status												
Employed full time	55.5	42.9	82.3	57.1	43.6	83.5	56.6	44.5	80.0	50.9	42.8	81.0
Employed part time	14.9	19.6	5.0	13.9	18.7	4.5	14.8	19.4	5.8	16.6	19.5	5.6
Not employed	29.5	37.5	12.6	29.0	37.7	11.9	28.6	36.1	14.2	32.5	37.7	13.4
If spouse is employed, whether spouse's job requires technical expertise at the bachelor's or above in:												
Engineering, computer science, or natural sciences	25.5	17.5	37.5	24.5	15.9	36.5	27.0	18.4	39.5	32.2	26.7	47.2
Social sciences	16.0	18.1	12.9	13.8	15.9	10.9	18.0	20.2	14.9	21.7	22.1	20.5
Some other field	35.7	36.2	34.9	32.3	32.7	31.9	37.4	38.0	36.6	37.8	39.4	33.5
Children living at home												
Yes	45.1	45.8	43.9	43.0	43.1	42.9	47.1	48.1	45.5	45.7	46.4	43.4
No	54.9	54.2	56.1	57.0	56.9	57.1	52.9	51.9	54.5	54.3	53.6	56.6

See explanatory information and SOURCE at end of table.

Appendix table 6-21

Demographic characteristics of scientists and engineers, by highest degree level and sex: 1999

Characteristic	Total, all degree levels[a]			Bachelor's			Master's			Doctorate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
	Percent											
Citizenship												
Native U.S. citizen	88.6	88.0	89.6	90.5	90.6	90.4	86.3	84.7	88.9	75.1	73.7	79.5
Naturalized U.S. citizen	8.0	8.4	7.5	7.3	7.3	7.3	9.0	9.9	7.5	13.6	14.5	10.7
Non-U.S. citizen, permanent resident	2.6	2.7	2.3	1.8	1.8	1.9	3.1	3.4	2.5	9.2	9.5	8.1
Non-U.S. citizen, temporary resident	0.8	0.9	0.6	0.4	0.4	0.4	1.6	2.0	1.1	2.1	2.3	1.6

[a]Includes first-professional degrees not shown separately.

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Numbers are rounded to nearest hundred. Details may not add to totals because of rounding.

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

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002

Appendix table 6-22

Demographic characteristics of scientists and engineers, by race/ethnicity and sex: 1999

Characteristic	Total, all groups			White			Asian/Pacific Islander			Black			Hispanic			American Indian/ Alaskan Native		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Number of scientists and engineers	13,050,800	8,304,100	4,746,700	10,931,000	7,085,700	3,845,300	919,900	597,100	322,800	677,500	324,200	353,300	476,100	270,000	206,100	42,000	24,400	17,600
	Percent																	
Age	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
29 or younger	13.6	10.6	18.8	12.5	9.7	17.6	19.9	17.1	25.0	16.1	13.0	19.1	22.9	17.3	30.2	22.4	18.7	27.5
30–39	22.6	21.1	25.3	21.9	20.3	24.9	27.9	27.6	28.6	22.2	20.6	23.7	28.6	27.8	29.7	21.0	20.2	22.3
40–49	28.2	27.8	28.9	28.4	28.0	29.3	25.8	25.5	26.3	29.2	28.7	29.6	27.0	28.0	25.7	24.9	22.4	28.3
50 or older	35.6	40.5	27.0	37.2	42.0	28.3	26.4	29.8	20.0	32.4	37.7	27.6	21.4	26.8	14.4	31.7	38.8	21.9
Marital status																		
Married	70.1	74.8	61.8	71.7	75.7	64.2	69.5	73.0	63.2	51.8	64.1	40.6	61.2	67.9	52.5	61.8	65.3	57.0
Widowed	1.4	0.9	2.2	1.4	1.0	2.1	0.8	0.6	1.2	2.9	1.1	4.5	0.8	0.4	1.3	1.2	S	2.1
Separated	1.0	0.9	1.3	0.9	0.8	1.2	0.6	0.5	0.7	3.1	2.4	3.7	1.5	1.4	1.7	1.0	S	S
Divorced	7.5	6.1	9.9	7.5	6.2	10.0	3.2	2.6	4.2	12.2	8.9	15.2	7.1	5.6	9.0	13.7	12.0	16.0
Never married	20.0	17.3	24.7	18.5	16.3	22.6	25.9	23.4	30.6	30.0	23.5	36.0	29.3	24.7	35.4	22.3	21.8	23.1
If married, spouse's employment status																		
Employed full time	55.5	42.9	82.3	54.1	41.2	82.0	61.7	50.2	86.2	70.5	64.2	79.6	62.9	49.6	85.5	57.2	45.5	75.9
Employed part time	14.9	19.6	5.0	15.7	20.6	5.1	10.8	13.9	4.1	7.8	9.9	4.8	12.0	15.6	6.0	13.8	18.4	6.5
Not employed	29.5	37.5	12.6	30.2	38.2	12.9	27.6	36.0	9.6	21.7	25.9	15.6	25.1	34.9	8.5	29.0	36.1	17.6
If spouse is employed, whether spouses's job requires technical expertise at the bachelor's or above in:																		
Engineering, computer science, or natural sciences	25.5	17.5	37.5	23.7	15.8	35.9	46.1	34.3	63.9	24.6	21.6	28.3	27.6	20.5	36.2	19.1	15.4	23.7
Social sciences	16.0	18.1	12.9	16.1	18.1	13.0	11.6	12.4	10.4	21.1	27.7	12.8	17.3	20.0	14.1	15.1	13.5	17.1
Some other field	35.7	36.2	34.9	36.1	36.2	35.8	32.4	35.7	27.5	34.2	36.2	31.6	35.4	37.0	33.4	43.0	45.3	40.1

See explanatory information and SOURCE at end of table.

Appendix table 6-22
Demographic characteristics of scientists and engineers, by race/ethnicity and sex: 1999

Characteristic	Total, all groups			White			Asian/Pacific Islander			Black			Hispanic			American Indian/ Alaskan Native		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
	Percent																	
Children living at home																		
Yes	45.1	45.8	43.9	44.5	45.1	43.4	49.7	52.1	45.3	46.9	45.9	47.8	46.8	49.5	43.4	44.5	41.3	49.1
No	54.9	54.2	56.1	55.5	54.9	56.6	50.3	47.9	54.7	53.1	54.1	52.2	53.2	50.5	56.6	55.5	58.7	50.9
Citizenship																		
Native U.S. citizen	88.6	88.0	89.6	94.9	94.6	95.4	23.5	20.7	28.6	89.7	86.5	92.6	68.0	65.5	71.2	94.6	94.3	95.1
Naturalized U.S. citizen	8.0	8.4	7.5	3.7	3.9	3.3	52.0	52.7	50.7	6.6	8.4	5.0	24.8	26.9	21.9	4.7	4.5	4.9
Non-U.S. citizen, permanent resident	2.6	2.7	2.3	1.2	1.2	1.1	17.4	18.4	15.5	3.0	4.1	2.1	5.9	6.0	5.7	S	S	S
Non-U.S. citizen, temporary resident	0.8	0.9	0.6	0.2	0.2	0.2	7.2	8.3	5.2	0.7	1.0	0.4	1.4	1.6	1.1	S	S	S

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Numbers are rounded to nearest hundred. Details may not add to totals because of rounding.

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

Appendix table 6-23
Demographic characteristics of scientists and engineers, by disability status and sex: 1999

Characteristic	Total			Without disabilities			With disabilities		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Number of scientists and engineers	13,050,800	8,304,100	4,746,700	11,943,400	7,541,300	4,402,200	1,107,300	762,800	344,600
	Percent								
Age	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
29 or younger	13.6	10.6	18.8	14.5	11.5	19.8	3.4	2.2	6.0
30–39	22.6	21.1	25.3	23.9	22.5	26.4	8.1	7.0	10.6
40–49	28.2	27.8	28.9	28.6	28.3	29.0	24.6	22.8	28.6
50 or older	35.6	40.5	27.0	33.0	37.7	24.8	63.9	68.1	54.7
Race/ethnicity									
White, non-Hispanic	83.8	85.3	81.0	83.7	85.1	81.2	84.8	87.4	79.1
Asian/Pacific Islander	7.0	7.2	6.8	7.2	7.3	6.8	5.9	5.8	6.3
Black, non-Hispanic	5.2	3.9	7.4	5.2	4.0	7.3	5.2	3.2	9.7
Hispanic	3.6	3.3	4.3	3.7	3.3	4.3	3.6	3.2	4.4
American Indian/Alaskan Native	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.6
Marital status									
Married	70.1	74.8	61.8	70.0	74.5	62.2	71.4	78.0	56.8
Widowed	1.4	0.9	2.2	1.2	0.8	2.0	3.2	2.4	5.0
Separated	1.0	0.9	1.3	1.0	0.8	1.3	1.4	1.1	2.0
Divorced	7.5	6.1	9.9	7.1	5.9	9.3	11.2	8.3	17.5
Never married	20.0	17.3	24.7	20.7	18.1	25.2	12.8	10.2	18.7
If married, spouse's employment status									
Employed full time	55.5	42.9	82.3	56.3	43.2	83.2	47.3	40.0	69.4
Employed part time	14.9	19.6	5.0	15.1	20.0	5.0	13.4	15.8	6.0
Not employed	29.5	37.5	12.6	28.6	36.8	11.8	39.3	44.2	24.5
If spouse is employed, whether spouse's job requires technical expertise at the bachelor's or above in:									
Engineering, computer science, or natural sciences	25.5	17.5	37.5	25.8	17.8	37.7	21.0	14.6	35.3
Social sciences	16.0	18.1	12.9	16.0	18.2	12.8	16.9	17.7	15.1
Some other field	35.7	36.2	34.9	35.8	36.4	35.0	34.5	34.7	33.9
Children living at home									
Yes	45.1	45.8	43.9	45.7	46.5	44.4	38.3	38.7	37.4
No	54.9	54.2	56.1	54.3	53.5	55.6	61.7	61.3	62.6
Citizenship									
Native U.S. citizen	88.6	88.0	89.6	88.5	87.8	89.6	89.8	89.8	89.7
Naturalized U.S. citizen	8.0	8.4	7.5	8.0	8.4	7.4	8.0	8.2	7.6
Non-U.S. citizen, permanent resident	2.6	2.7	2.3	2.7	2.8	2.3	1.7	1.4	2.4
Non-U.S. citizen, temporary resident	0.8	0.9	0.6	0.8	0.9	0.6	0.5	0.5	0.3

NOTES: "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Numbers are rounded to nearest hundred. Details may not add to totals because of rounding.

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