

TABLE A-14. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2006

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity <sup>a</sup>					
		Male	Female	American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
All degree levels and fields <sup>b</sup>	83,000	61,000	53,000	6,000	21,000	20,000	20,000	74,000	12,000
S&E fields	66,000	53,000	37,000	4,000	17,000	14,000	15,000	58,000	8,000
Sciences	63,000	47,000	38,000	4,000	14,000	14,000	13,000	57,000	8,000
Biological/agricultural/environmental life sciences	28,000	20,000	18,000	1,000	7,000	5,000	6,000	25,000	3,000
Agricultural sciences	13,000	9,000	8,000	1,000	3,000	1,000	2,000	12,000	2,000
Biological sciences	24,000	16,000	16,000	1,000	7,000	5,000	6,000	21,000	2,000
Environmental life sciences	9,000	8,000	5,000	1,000	1,000	500	1,000	9,000	1,000
Computer/mathematical sciences	23,000	17,000	15,000	2,000	9,000	6,000	6,000	23,000	4,000
Computer/information sciences	17,000	14,000	10,000	2,000	8,000	5,000	5,000	18,000	4,000
Mathematics/statistics	16,000	11,000	10,000	*	4,000	3,000	2,000	14,000	2,000
Physical/related sciences	14,000	13,000	8,000	1,000	5,000	2,000	3,000	13,000	1,000
Chemistry, except biochemistry	11,000	9,000	5,000	1,000	4,000	2,000	2,000	10,000	1,000
Earth/atmospheric/ocean sciences	8,000	7,000	4,000	500	1,000	500	1,000	8,000	500
Physics/astronomy	6,000	5,000	2,000	*	3,000	1,000	1,000	5,000	500
Other physical sciences	5,000	4,000	3,000	S	1,000	1,000	1,000	4,000	500
Social/related sciences	50,000	35,000	33,000	3,000	9,000	11,000	10,000	46,000	7,000
Economics	19,000	18,000	10,000	S	6,000	3,000	4,000	17,000	2,000
Political/related sciences	22,000	17,000	13,000	1,000	4,000	5,000	4,000	19,000	3,000
Psychology	26,000	15,000	21,000	2,000	4,000	7,000	6,000	25,000	4,000
Sociology/anthropology	20,000	13,000	16,000	2,000	4,000	6,000	4,000	18,000	3,000
Other social sciences	15,000	11,000	12,000	2,000	3,000	4,000	4,000	14,000	2,000
Engineering	27,000	27,000	9,000	1,000	10,000	4,000	6,000	23,000	3,000
Aerospace/aeronautical/astronautical engineering	6,000	5,000	2,000	S	1,000	1,000	1,000	5,000	1,000
Chemical engineering	7,000	6,000	3,000	1,000	2,000	1,000	1,000	6,000	1,000
Civil/architectural engineering	11,000	11,000	4,000	500	4,000	2,000	3,000	9,000	2,000
Electrical/computer engineering	14,000	13,000	5,000	500	6,000	3,000	3,000	11,000	2,000
Industrial engineering	8,000	7,000	3,000	S	2,000	1,000	2,000	7,000	1,000
Mechanical engineering	13,000	13,000	3,000	500	4,000	2,000	2,000	12,000	1,000
Other engineering	11,000	10,000	3,000	S	3,000	1,000	3,000	10,000	1,000
S&E-related fields	43,000	27,000	33,000	3,000	13,000	10,000	10,000	40,000	7,000
Health	35,000	20,000	30,000	3,000	12,000	8,000	8,000	31,000	7,000
Science/mathematics teacher education	16,000	10,000	12,000	S	2,000	3,000	3,000	15,000	1,000
Technology/technical fields	13,000	13,000	5,000	S	4,000	3,000	3,000	11,000	2,000
Other S&E-related fields	14,000	12,000	7,000	S	3,000	3,000	3,000	13,000	1,000
Non-S&E fields	47,000	34,000	32,000	4,000	10,000	12,000	10,000	44,000	5,000
Arts/humanities	13,000	10,000	10,000	S	4,000	2,000	3,000	13,000	1,000

TABLE A-14. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2006

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity <sup>a</sup>					
		Male	Female	American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Education, except science/mathematics teacher education	24,000	16,000	19,000	2,000	3,000	6,000	5,000	23,000	2,000
Management/administration	27,000	21,000	14,000	2,000	8,000	6,000	6,000	25,000	3,000
Sales/marketing	9,000	7,000	5,000	S	2,000	2,000	2,000	8,000	S
Social services/related	14,000	10,000	10,000	S	2,000	4,000	3,000	13,000	1,000
Other non-S&E fields	25,000	18,000	18,000	2,000	5,000	6,000	5,000	22,000	3,000
Bachelor's degrees	70,000	50,000	45,000	5,000	18,000	16,000	17,000	62,000	11,000
S&E fields	61,000	47,000	35,000	4,000	15,000	14,000	14,000	55,000	8,000
Sciences	60,000	44,000	35,000	4,000	13,000	13,000	13,000	54,000	7,000
Biological/agricultural/environmental life sciences	27,000	19,000	18,000	1,000	7,000	5,000	6,000	24,000	3,000
Agricultural sciences	12,000	9,000	8,000	1,000	3,000	1,000	2,000	12,000	2,000
Biological sciences	23,000	15,000	16,000	1,000	6,000	5,000	5,000	21,000	2,000
Environmental life sciences	8,000	7,000	5,000	1,000	1,000	500	1,000	8,000	500
Computer/mathematical sciences	21,000	16,000	14,000	2,000	8,000	5,000	5,000	21,000	4,000
Computer/information sciences	15,000	12,000	9,000	2,000	7,000	5,000	5,000	16,000	3,000
Mathematics/statistics	15,000	11,000	9,000	S	3,000	3,000	2,000	13,000	2,000
Physical/related sciences	13,000	12,000	7,000	1,000	4,000	2,000	3,000	12,000	1,000
Chemistry, except biochemistry	10,000	8,000	5,000	1,000	3,000	2,000	2,000	9,000	1,000
Earth/atmospheric/ocean sciences	7,000	6,000	3,000	S	1,000	500	1,000	7,000	500
Physics/astronomy	6,000	5,000	2,000	S	2,000	1,000	1,000	5,000	500
Other physical sciences	4,000	3,000	3,000	S	1,000	1,000	1,000	4,000	S
Social/related sciences	46,000	32,000	29,000	3,000	8,000	11,000	10,000	42,000	6,000
Economics	19,000	17,000	9,000	S	6,000	3,000	4,000	16,000	2,000
Political/related sciences	20,000	16,000	11,000	1,000	4,000	5,000	4,000	17,000	3,000
Psychology	23,000	14,000	18,000	2,000	4,000	6,000	5,000	22,000	3,000
Sociology/anthropology	21,000	13,000	17,000	2,000	4,000	6,000	4,000	19,000	3,000
Other social sciences	14,000	10,000	11,000	2,000	2,000	4,000	3,000	13,000	2,000
Engineering	24,000	23,000	8,000	1,000	8,000	4,000	5,000	20,000	3,000
Aerospace/aeronautical/astronautical engineering	5,000	5,000	2,000	S	1,000	1,000	1,000	5,000	1,000
Chemical engineering	6,000	6,000	3,000	1,000	2,000	1,000	1,000	6,000	1,000
Civil/architectural engineering	9,000	9,000	3,000	500	3,000	2,000	3,000	8,000	2,000
Electrical/computer engineering	11,000	11,000	4,000	500	5,000	3,000	3,000	10,000	2,000
Industrial engineering	7,000	6,000	3,000	S	2,000	1,000	2,000	7,000	1,000
Mechanical engineering	11,000	11,000	3,000	500	4,000	2,000	2,000	11,000	1,000
Other engineering	9,000	9,000	3,000	S	2,000	1,000	2,000	8,000	1,000

TABLE A-14. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 2006

Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity <sup>a</sup>					
		Male	Female	American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
S&E-related fields	38,000	20,000	31,000	3,000	11,000	8,000	8,000	33,000	6,000
Health	30,000	11,000	27,000	2,000	9,000	7,000	6,000	26,000	6,000
Science/mathematics teacher education	12,000	7,000	8,000	S	2,000	1,000	2,000	12,000	S
Technology/technical fields	12,000	12,000	4,000	S	3,000	3,000	3,000	10,000	2,000
Other S&E-related fields	12,000	11,000	6,000	S	3,000	2,000	3,000	11,000	1,000
Non-S&E fields	28,000	20,000	19,000	3,000	5,000	5,000	4,000	26,000	2,000
Arts/humanities	11,000	8,000	8,000	S	2,000	1,000	2,000	11,000	1,000
Education, except science/mathematics teacher education	10,000	6,000	9,000	S	2,000	2,000	2,000	10,000	1,000
Management/administration	17,000	13,000	9,000	S	4,000	3,000	3,000	15,000	2,000
Sales/marketing	5,000	4,000	4,000	S	S	1,000	1,000	5,000	S
Social services/related	5,000	4,000	3,000	S	1,000	2,000	S	4,000	S
Other non-S&E fields	11,000	7,000	8,000	S	1,000	3,000	2,000	10,000	1,000
Master's degrees	46,000	33,000	30,000	3,000	12,000	12,000	9,000	41,000	6,000
S&E fields	26,000	20,000	15,000	1,000	8,000	5,000	5,000	22,000	4,000
Sciences	22,000	16,000	15,000	1,000	6,000	5,000	5,000	20,000	3,000
Biological/agricultural/environmental life sciences	8,000	6,000	6,000	500	2,000	2,000	2,000	7,000	1,000
Agricultural sciences	3,000	2,000	2,000	S	1,000	1,000	1,000	3,000	1,000
Biological sciences	7,000	5,000	5,000	*	2,000	1,000	2,000	6,000	1,000
Environmental life sciences	4,000	3,000	2,000	S	1,000	500	*	4,000	S
Computer/mathematical sciences	10,000	9,000	6,000	1,000	5,000	2,000	2,000	8,000	2,000
Computer/information sciences	9,000	8,000	5,000	S	4,000	2,000	2,000	8,000	2,000
Mathematics/statistics	5,000	4,000	3,000	S	2,000	1,000	500	4,000	*
Physical/related sciences	6,000	5,000	3,000	*	2,000	1,000	1,000	5,000	500
Chemistry, except biochemistry	3,000	3,000	2,000	S	2,000	500	500	3,000	S
Earth/atmospheric/ocean sciences	4,000	3,000	2,000	S	1,000	*	500	4,000	500
Physics/astronomy	3,000	3,000	1,000	S	1,000	500	1,000	2,000	*
Other physical sciences	1,000	1,000	1,000	S	S	500	S	1,000	S
Social/related sciences	17,000	11,000	13,000	1,000	3,000	4,000	4,000	16,000	2,000
Economics	6,000	5,000	4,000	S	2,000	1,000	1,000	6,000	S
Political/related sciences	8,000	6,000	5,000	S	2,000	2,000	1,000	7,000	1,000
Psychology	13,000	7,000	10,000	500	2,000	3,000	2,000	12,000	2,000
Sociology/anthropology	5,000	3,000	3,000	S	1,000	1,000	2,000	4,000	1,000
Other social sciences	5,000	4,000	4,000	S	1,000	2,000	2,000	4,000	1,000
Engineering	12,000	11,000	4,000	*	5,000	1,000	3,000	10,000	1,000
Aerospace/aeronautical/astronautical engineering	2,000	2,000	500	S	1,000	S	1,000	2,000	500

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Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity <sup>a</sup>					
		Male	Female	American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Chemical engineering	2,000	2,000	1,000	S	2,000	500	1,000	2,000	S
Civil/architectural engineering	5,000	4,000	2,000	S	2,000	500	1,000	4,000	1,000
Electrical/computer engineering	7,000	7,000	2,000	S	3,000	1,000	1,000	5,000	1,000
Industrial engineering	3,000	2,000	1,000	S	1,000	1,000	1,000	2,000	S
Mechanical engineering	4,000	4,000	1,000	S	2,000	500	1,000	4,000	1,000
Other engineering	5,000	5,000	2,000	S	2,000	500	1,000	5,000	500
S&E-related fields	19,000	11,000	16,000	1,000	5,000	5,000	3,000	18,000	2,000
Health	16,000	7,000	14,000	1,000	4,000	4,000	3,000	14,000	2,000
Science/mathematics teacher education	9,000	6,000	7,000	S	2,000	2,000	1,000	8,000	1,000
Technology/technical fields	4,000	4,000	2,000	S	2,000	1,000	1,000	4,000	S
Other S&E-related fields	6,000	5,000	3,000	S	1,000	1,000	1,000	6,000	S
Non-S&E fields	36,000	27,000	24,000	2,000	8,000	10,000	7,000	33,000	4,000
Arts/humanities	8,000	5,000	6,000	S	3,000	1,000	2,000	7,000	500
Education, except science/mathematics teacher education	22,000	14,000	17,000	1,000	3,000	6,000	4,000	21,000	2,000
Management/administration	22,000	18,000	12,000	1,000	6,000	6,000	5,000	20,000	2,000
Sales/marketing	7,000	6,000	4,000	S	2,000	1,000	2,000	7,000	S
Social services/related	12,000	8,000	9,000	S	2,000	4,000	2,000	11,000	1,000
Other non-S&E fields	11,000	9,000	9,000	S	2,000	4,000	2,000	11,000	1,000
Doctorate degrees	9,000	7,000	5,000	500	3,000	2,000	2,000	8,000	1,000
S&E fields	5,000	4,000	2,000	500	2,000	1,000	1,000	4,000	1,000
Sciences	4,000	3,000	2,000	500	2,000	1,000	1,000	3,000	1,000
Biological/agricultural/environmental life sciences	3,000	2,000	1,000	*	2,000	1,000	1,000	2,000	500
Agricultural sciences	1,000	1,000	500	S	500	500	500	500	*
Biological sciences	3,000	2,000	1,000	*	2,000	500	500	2,000	500
Environmental life sciences	500	500	500	S	500	*	*	500	S
Computer/mathematical sciences	2,000	1,000	1,000	S	1,000	500	500	1,000	*
Computer/information sciences	1,000	1,000	500	S	1,000	*	*	1,000	*
Mathematics/statistics	1,000	1,000	500	S	500	500	500	1,000	*
Physical/related sciences	2,000	2,000	1,000	*	1,000	500	500	2,000	500
Chemistry, except biochemistry	1,000	1,000	1,000	S	1,000	500	500	1,000	500
Earth/atmospheric/ocean sciences	1,000	1,000	500	S	500	*	*	500	*
Physics/astronomy	1,000	1,000	500	S	500	500	500	1,000	*
Other physical sciences	500	500	500	S	*	S	*	500	S
Social/related sciences	2,000	1,000	1,000	500	1,000	500	500	1,000	500
Economics	1,000	500	500	S	500	500	500	500	*

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Level and field of highest degree	Employed scientists and engineers	Sex		Race/ethnicity <sup>a</sup>					
		Male	Female	American Indian/ Alaska Native	Asian	Black	Hispanic	White	Other
Political/related sciences	1,000	1,000	500	*	500	500	*	1,000	*
Psychology	1,000	1,000	1,000	*	500	500	500	1,000	500
Sociology/anthropology	1,000	500	500	*	500	500	500	1,000	500
Other social sciences	1,000	500	500	*	500	500	500	500	*
Engineering	2,000	2,000	500	S	1,000	500	500	1,000	500
Aerospace/aeronautical/astronautical engineering	1,000	1,000	*	S	500	*	*	500	S
Chemical engineering	1,000	1,000	500	S	1,000	*	500	1,000	*
Civil/architectural engineering	1,000	1,000	500	S	500	*	*	500	S
Electrical/computer engineering	1,000	1,000	500	S	1,000	500	500	1,000	*
Industrial engineering	500	500	500	S	500	*	*	500	S
Mechanical engineering	1,000	1,000	500	S	500	*	*	500	*
Other engineering	1,000	1,000	500	S	1,000	500	500	1,000	*
S&E-related fields	3,000	2,000	2,000	*	1,000	1,000	1,000	3,000	500
Health	2,000	1,000	2,000	*	1,000	1,000	1,000	1,000	*
Science/mathematics teacher education	1,000	1,000	1,000	S	S	S	S	1,000	S
Technology/technical fields	1,000	1,000	S	S	1,000	S	S	1,000	S
Other S&E-related fields	1,000	1,000	500	S	S	S	S	1,000	S
Non-S&E fields	7,000	6,000	4,000	S	1,000	1,000	2,000	7,000	1,000
Arts/humanities	3,000	2,000	2,000	S	S	S	1,000	2,000	S
Education, except science/mathematics teacher education	5,000	4,000	3,000	S	500	1,000	1,000	5,000	500
Management/administration	2,000	2,000	1,000	S	1,000	S	S	2,000	S
Sales/marketing	500	500	S	S	S	S	S	S	S
Social services/related	3,000	3,000	1,000	S	S	1,000	S	3,000	S
Other non-S&E fields	3,000	3,000	2,000	S	S	S	S	3,000	S

\* = standard error is not calculated when estimate is less than 500; S = standard error is not calculated when estimate is suppressed for reliability or confidentiality.

S&E = science and engineering.

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

<sup>b</sup> Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See <http://sestat.nsf.gov/docs/ed03maj.html> for a detailed description of the educational field classification. Standard errors of less than 500 are rounded up to 500 and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2006.