

TABLE A-8. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2006

Level and field of highest degree	Employed scientists and engineers	Sex		Hispanic or Latino	Not Hispanic or Latino				
		Male	Female		American Indian or Alaska Native	Black or African American			
						Asian	White	Other ^a	
All degree levels and fields ^b	81,000	60,500	54,000	20,500	6,500	21,500	20,000	75,000	12,500
S&E fields	63,500	49,500	38,000	15,500	4,500	17,500	15,000	58,500	9,500
Sciences	61,000	45,000	38,500	14,000	4,500	15,500	14,500	57,500	9,000
Biological/agricultural/environmental life sciences	27,500	20,000	18,500	6,000	1,500	7,000	5,000	24,500	4,000
Agricultural sciences	12,500	10,000	8,500	3,000	S	3,000	1,500	12,000	2,000
Biological sciences	23,500	16,000	16,000	5,500	1,500	6,500	5,000	21,500	3,000
Environmental life sciences	10,500	8,500	6,000	2,000	500	1,500	1,000	10,000	2,000
Computer/mathematical sciences	24,000	18,000	15,000	6,000	2,500	10,000	6,500	22,000	4,000
Computer/information sciences	18,000	15,000	10,500	5,500	2,500	9,000	5,500	17,500	3,500
Mathematics/statistics	17,000	12,500	10,500	2,500	*	4,500	4,000	15,000	2,000
Physical/related sciences	13,500	12,500	8,000	3,500	1,000	5,000	2,500	12,000	1,500
Chemistry, except biochemistry	10,500	9,000	6,500	2,500	S	4,000	1,500	9,000	1,500
Earth/atmospheric/ocean sciences	8,500	7,500	4,000	1,500	*	1,500	500	8,500	1,000
Physics/astronomy	6,500	6,000	2,500	1,500	*	3,000	1,500	5,500	500
Other physical sciences	5,000	4,000	3,500	1,500	D	500	2,000	4,500	S
Social/related sciences	48,000	32,000	33,500	11,000	3,500	9,500	11,500	45,000	7,000
Economics	20,500	18,000	11,000	4,500	*	6,500	3,500	18,500	2,500
Political/related sciences	22,000	17,500	13,500	4,500	1,000	4,500	5,500	20,000	3,500
Psychology	27,000	16,000	22,000	7,000	2,000	4,500	7,000	25,500	4,000
Sociology/anthropology	21,000	14,000	16,500	5,000	2,000	4,500	6,500	19,000	4,000
Other social sciences	15,500	10,500	12,000	4,000	S	3,000	4,000	14,000	2,500
Engineering	26,500	25,000	9,000	7,000	1,500	10,500	4,500	23,000	3,500
Aerospace/aeronautical/astronautical engineering	6,000	5,500	1,500	1,500	500	1,500	1,000	5,000	1,500
Chemical engineering	6,500	6,500	3,500	1,500	1,000	3,000	1,000	6,000	1,500
Civil/architectural engineering	11,500	11,000	4,000	3,500	500	4,000	2,000	10,000	2,000
Electrical/computer engineering	15,000	14,000	5,500	4,000	500	7,500	3,500	12,500	2,500
Industrial engineering	8,000	7,500	3,500	2,000	D	2,500	2,000	7,500	1,000
Mechanical engineering	12,500	12,500	3,000	2,500	500	4,500	2,500	11,000	1,500
Other engineering	10,000	9,500	4,000	3,000	*	4,000	1,500	9,000	1,000
S&E-related fields	44,500	29,000	33,500	10,500	3,500	13,500	10,000	42,000	7,500
Health	37,000	20,000	31,000	9,000	3,000	12,000	9,500	34,500	6,500
Science/mathematics teacher education	16,000	10,000	11,500	2,500	D	2,500	2,500	15,000	1,500
Technology/technical fields	13,000	12,500	5,000	3,500	D	4,000	4,000	11,000	2,000
Other S&E-related fields	14,500	13,000	7,000	3,500	D	3,500	3,000	14,000	1,500
Non-S&E fields	47,000	36,000	33,500	10,000	3,500	11,000	12,000	43,500	5,000
Arts/humanities	13,500	10,500	9,000	3,000	D	3,500	1,500	12,500	1,000
Education, except science/mathematics teacher education	25,000	17,000	21,000	5,500	2,500	3,500	7,000	24,500	2,500

TABLE A-8. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2006

Level and field of highest degree	Employed scientists and engineers	Sex		Hispanic or Latino	Not Hispanic or Latino				
		Male	Female		American Indian or Alaska Native	Black or African American			
						Asian	White	Other ^a	
Management/administration	31,000	23,500	16,500	6,500	2,000	8,500	6,500	28,000	3,500
Sales/marketing	10,000	8,000	6,500	2,000	D	2,500	2,000	9,500	S
Social services/related	15,500	10,500	11,500	3,500	500	2,500	4,500	14,000	2,000
Other non-S&E fields	28,500	21,000	19,000	5,500	2,000	5,500	7,000	26,000	3,500
Bachelor's degrees	66,500	50,500	43,000	17,000	5,500	17,000	17,000	61,500	11,000
S&E fields	59,500	45,500	35,500	14,500	4,000	16,000	14,000	54,500	8,500
Sciences	58,000	43,000	36,000	13,000	4,500	14,500	13,500	53,500	8,000
Biological/agricultural/environmental life sciences	27,500	19,500	18,500	6,000	1,500	6,500	5,000	24,500	3,500
Agricultural sciences	12,500	10,000	8,500	2,500	S	3,000	1,500	12,000	2,000
Biological sciences	23,000	15,500	16,000	5,500	1,500	6,000	5,000	21,000	3,000
Environmental life sciences	9,000	7,500	5,500	2,000	500	1,500	1,000	8,500	S
Computer/mathematical sciences	21,500	17,000	13,500	5,500	2,500	9,000	6,000	20,000	4,000
Computer/information sciences	15,500	14,000	9,500	5,500	2,500	8,000	5,000	15,500	3,500
Mathematics/statistics	15,500	11,500	9,500	2,500	D	4,000	3,500	14,000	2,000
Physical/related sciences	13,000	12,000	7,500	3,000	1,000	4,500	2,500	12,000	1,500
Chemistry, except biochemistry	10,000	8,500	6,000	2,500	S	3,500	1,500	8,500	1,000
Earth/atmospheric/ocean sciences	7,500	6,500	3,500	1,500	*	1,000	500	7,500	500
Physics/astronomy	6,000	5,500	2,000	1,000	*	3,000	1,000	5,000	500
Other physical sciences	5,000	4,000	3,000	1,500	D	500	S	4,500	D
Social/related sciences	44,500	30,500	30,500	10,500	3,000	9,500	11,000	41,500	6,500
Economics	20,500	17,500	10,000	4,000	D	6,500	3,500	18,000	2,500
Political/related sciences	19,500	16,500	12,000	4,500	500	4,500	5,000	18,000	3,000
Psychology	24,000	14,500	20,000	6,500	2,000	4,500	6,500	22,500	3,500
Sociology/anthropology	20,500	13,500	16,500	5,000	2,000	4,500	6,000	19,000	4,000
Other social sciences	14,500	9,500	11,000	3,500	S	2,500	4,000	13,000	2,500
Engineering	24,000	22,500	7,500	6,000	1,500	9,000	4,500	20,000	3,500
Aerospace/aeronautical/astronautical engineering	5,000	5,000	1,500	1,500	D	1,000	1,000	4,500	1,500
Chemical engineering	6,500	6,000	3,000	1,500	S	2,500	1,000	5,500	1,500
Civil/architectural engineering	10,000	10,000	3,000	3,000	500	3,500	2,000	9,000	2,000
Electrical/computer engineering	12,500	11,500	4,500	3,500	500	6,000	3,000	10,500	2,000
Industrial engineering	7,500	7,000	3,000	2,000	D	2,000	2,000	7,000	1,000
Mechanical engineering	11,500	11,500	3,000	2,500	500	4,000	2,500	10,500	1,500
Other engineering	9,000	8,500	3,500	2,500	D	3,000	1,000	8,500	1,000
S&E-related fields	36,000	21,500	28,500	7,500	3,000	10,500	8,000	33,000	6,000
Health	28,500	11,000	26,000	6,500	2,500	9,000	7,500	26,000	6,000
Science/mathematics teacher education	12,000	7,500	8,000	2,000	D	2,000	1,000	12,000	D
Technology/technical fields	12,000	12,000	5,000	3,500	D	3,500	3,500	10,000	2,000
Other S&E-related fields	12,500	11,000	6,000	3,000	D	3,000	2,500	12,000	1,000

TABLE A-8. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2006

Level and field of highest degree	Employed scientists and engineers	Sex		Hispanic or Latino	Not Hispanic or Latino				
		Male	Female		American Indian or Alaska Native	Black or African American			
						Asian	White	Other ^a	
Non-S&E fields	27,000	19,500	19,000	4,000	2,500	5,500	5,500	24,500	3,000
Arts/humanities	11,000	8,500	7,000	2,000	D	2,000	1,500	11,000	1,000
Education, except science/mathematics teacher education	10,500	6,000	9,500	1,500	D	2,000	2,000	10,000	S
Management/administration	17,000	12,500	10,500	2,500	D	4,500	4,000	14,000	2,500
Sales/marketing	5,500	4,500	4,000	1,000	D	D	S	5,500	D
Social services/related	5,000	3,500	3,000	D	D	D	1,500	4,500	D
Other non-S&E fields	10,500	7,000	8,000	2,000	D	2,000	3,000	10,000	1,500
Master's degrees	50,000	37,000	34,000	9,500	3,000	12,500	12,000	44,000	6,000
S&E fields	25,000	19,500	15,500	5,500	1,500	9,000	5,000	22,500	3,500
Sciences	22,000	15,500	15,000	5,000	1,500	7,000	5,000	19,500	3,500
Biological/agricultural/environmental life sciences	9,000	6,500	6,000	2,500	S	2,500	1,500	8,000	1,500
Agricultural sciences	3,500	3,000	2,500	1,000	D	1,000	S	3,000	S
Biological sciences	8,000	5,500	5,500	2,000	*	2,000	1,500	7,000	1,000
Environmental life sciences	4,500	3,500	2,500	*	D	1,000	500	4,000	S
Computer/mathematical sciences	11,000	9,500	6,000	1,500	S	5,500	2,500	9,000	1,500
Computer/information sciences	9,500	8,500	5,000	1,500	D	5,000	2,000	8,000	1,500
Mathematics/statistics	5,500	4,500	3,500	500	D	2,500	1,500	5,000	500
Physical/related sciences	6,000	5,000	3,500	1,500	*	3,000	1,000	5,000	1,000
Chemistry, except biochemistry	3,500	2,500	2,500	500	D	2,000	500	3,000	500
Earth/atmospheric/ocean sciences	4,000	3,500	2,000	500	*	1,500	*	4,000	500
Physics/astronomy	3,000	3,000	1,500	1,000	D	1,500	1,000	2,500	*
Other physical sciences	1,500	1,000	1,500	D	D	D	S	1,500	D
Social/related sciences	15,500	10,500	12,000	4,000	1,000	3,500	4,000	14,500	2,500
Economics	6,000	5,000	3,500	1,500	D	2,000	1,000	5,500	S
Political/related sciences	8,500	6,500	5,500	2,000	D	2,000	2,000	7,500	1,000
Psychology	12,500	7,000	10,000	2,500	500	2,000	3,500	11,000	2,000
Sociology/anthropology	5,000	4,000	3,000	2,000	S	1,000	1,500	4,500	S
Other social sciences	5,000	3,500	4,000	2,000	*	1,000	1,500	4,500	500
Engineering	11,000	11,000	4,500	3,000	500	5,500	1,500	9,500	2,000
Aerospace/aeronautical/astronautical engineering	2,000	2,000	1,000	S	D	1,000	*	2,000	500
Chemical engineering	3,000	2,500	1,500	1,000	D	2,000	500	2,000	*
Civil/architectural engineering	5,000	4,500	2,500	1,000	D	2,000	1,000	4,000	1,000
Electrical/computer engineering	7,000	7,000	2,500	2,000	D	4,000	1,000	5,500	1,000
Industrial engineering	3,000	2,500	1,500	1,000	D	1,500	1,000	3,000	*
Mechanical engineering	4,500	4,000	1,500	1,000	D	2,000	1,000	4,000	1,000
Other engineering	5,500	5,500	2,000	1,500	*	2,500	1,000	4,500	500

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Level and field of highest degree	Employed scientists and engineers	Sex		Hispanic or Latino	Not Hispanic or Latino				
		Male	Female		American Indian or Alaska Native	Black or African American			
						Asian	White	Other ^a	
S&E-related fields	21,500	12,500	18,000	4,000	1,500	5,000	5,500	19,500	3,000
Health	17,500	8,000	15,500	3,000	1,500	4,500	4,500	16,000	2,500
Science/mathematics teacher education	9,500	5,500	7,500	2,000	D	2,000	2,500	8,500	1,500
Technology/technical fields	4,500	4,000	2,500	1,000	D	2,000	2,000	3,500	D
Other S&E-related fields	7,000	6,000	4,000	1,500	D	2,000	1,500	6,500	S
Non-S&E fields	37,000	29,000	27,000	8,000	2,500	9,000	10,500	33,000	3,500
Arts/humanities	8,500	5,500	6,000	2,000	D	3,000	D	7,500	1,000
Education, except science/mathematics teacher education	23,500	15,000	19,000	5,000	2,000	3,500	6,500	22,000	2,500
Management/administration	25,500	21,000	13,500	6,000	1,500	7,000	5,500	23,000	2,500
Sales/marketing	8,500	7,000	5,000	2,000	D	2,500	2,000	8,000	D
Social services/related	13,500	9,000	10,500	3,000	500	2,500	4,500	12,500	1,500
Other non-S&E fields	14,000	10,000	9,500	2,500	D	3,500	5,000	12,000	1,500
Doctoral degrees	10,000	7,500	6,000	2,000	500	3,500	2,500	9,500	1,000
S&E fields	5,500	4,500	3,000	1,000	500	3,000	1,000	4,500	500
Sciences	5,000	4,000	3,000	1,000	500	2,500	1,000	4,000	500
Biological/agricultural/environmental life sciences	3,000	2,500	2,000	1,000	*	2,000	500	2,500	500
Agricultural sciences	1,000	1,000	500	500	D	500	500	500	*
Biological sciences	3,000	2,500	2,000	1,000	*	2,000	500	2,500	500
Environmental life sciences	500	500	500	*	D	500	*	500	D
Computer/mathematical sciences	2,000	2,000	500	500	D	1,000	500	2,000	*
Computer/information sciences	1,500	1,500	500	*	D	1,000	500	1,500	*
Mathematics/statistics	1,500	1,000	500	500	D	500	500	1,000	*
Physical/related sciences	2,000	2,000	1,000	500	*	1,000	500	2,000	500
Chemistry, except biochemistry	1,500	1,500	500	500	*	1,000	500	1,500	500
Earth/atmospheric/ocean sciences	1,000	1,000	500	*	D	500	*	1,000	*
Physics/astronomy	1,500	1,500	500	500	D	1,000	500	1,500	*
Other physical sciences	500	500	500	D	D	*	D	500	D
Social/related sciences	2,500	1,500	2,000	500	500	1,000	500	2,000	500
Economics	1,000	1,000	500	500	D	500	500	500	*
Political/related sciences	1,000	1,000	500	500	*	500	500	1,000	*
Psychology	2,000	1,000	1,500	500	*	1,000	500	1,500	500
Sociology/anthropology	1,000	500	500	500	*	500	500	1,000	500
Other social sciences	1,000	1,000	1,000	500	*	500	500	1,000	*
Engineering	2,500	2,000	1,000	500	*	1,500	500	1,500	500
Aerospace/aeronautical/astronautical engineering	1,000	1,000	*	*	D	500	*	1,000	D
Chemical engineering	1,000	1,000	500	500	D	1,000	500	1,000	*
Civil/architectural engineering	1,000	1,000	500	*	D	500	*	1,000	D

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Level and field of highest degree	Employed scientists and engineers	Sex		Hispanic or Latino	Not Hispanic or Latino				
		Male	Female		American Indian or Alaska Native	Black or African American			Other ^a
						Asian	White	Other ^a	
Electrical/computer engineering	1,500	1,500	1,000	500	D	1,000	500	1,000	500
Industrial engineering	500	500	500	*	D	500	*	500	D
Mechanical engineering	1,000	1,000	500	*	D	1,000	*	1,000	*
Other engineering	1,500	1,500	500	500	D	1,000	500	1,000	*
S&E-related fields	4,000	3,000	2,500	1,000	*	1,500	1,000	3,500	500
Health	3,000	2,500	2,500	1,000	*	1,000	1,000	2,500	500
Science/mathematics teacher education	1,500	1,500	1,000	D	D	D	500	1,500	D
Technology/technical fields	1,500	1,000	D	D	D	1,000	D	1,000	D
Other S&E-related fields	1,500	S	500	D	D	D	D	1,500	D
Non-S&E fields	8,000	6,000	5,000	2,000	D	2,000	2,000	7,500	1,000
Arts/humanities	2,500	2,000	2,000	S	D	*	D	2,500	D
Education, except science/mathematics teacher education	6,000	4,000	4,000	1,000	D	1,000	2,000	5,500	500
Management/administration	2,500	2,500	1,000	D	D	1,500	D	2,000	D
Sales/marketing	1,000	500	D	D	D	D	D	D	D
Social services/related	3,500	3,000	1,500	D	D	500	1,000	3,000	D
Other non-S&E fields	3,500	2,500	2,000	S	D	*	D	3,000	D

* = standard error is not computed when value < 500. D = standard error is not computed when value is suppressed to avoid disclosure of confidential information.

S = suppressed; data cell not published.

S&E = science and engineering.

^a "Other" includes Native Hawaiian or Other Pacific Islander and Not Hispanic or Latino respondents reporting two or more races.

^b Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received bachelor's or higher degree in S&E or S&E-related field through 30 June 2007, plus any person holding non-S&E bachelor's or higher degree who was employed in S&E or S&E-related occupation on 1 October 2003. See <http://sestat.nsf.gov/docs/ed03maj.html> for detailed description of educational field classification. Standard errors are rounded up to nearest 500.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2008.