

TABLE A-6. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2008

Level and field of highest degree and sex	All scientists and engineers	Hispanic or Latino	Not Hispanic or Latino				
			American Indian or Alaska Native	Asian	Black or African American	White	Other ^a
All degree levels and fields ^b	86,000	22,500	7,000	23,500	22,000	80,000	14,500
Male	64,500	15,000	5,000	18,000	13,500	60,500	10,500
Female	56,500	14,000	5,500	17,500	17,000	54,500	10,000
S&E fields	71,500	17,500	4,500	19,000	16,000	65,500	11,000
Male	55,000	12,000	3,500	14,000	11,000	50,500	8,000
Female	44,000	11,000	3,500	14,000	11,500	40,500	7,500
Sciences	66,500	15,500	4,500	17,500	16,000	61,500	10,000
Male	48,000	10,500	3,500	11,500	11,000	44,000	7,000
Female	43,500	11,000	3,500	13,000	11,500	41,000	7,500
Biological/agricultural/environmental life sciences	29,000	6,500	2,000	8,500	5,500	25,500	4,500
Male	21,500	4,500	1,500	5,000	3,500	20,000	3,500
Female	20,500	5,000	1,000	6,500	5,000	19,000	3,000
Agricultural/food sciences	14,000	3,000	S	3,000	2,000	13,000	2,500
Male	11,000	2,500	S	2,500	1,500	10,000	2,000
Female	9,000	1,500	D	2,000	1,000	8,500	S
Biological sciences	25,000	6,000	1,500	7,500	5,500	22,500	3,500
Male	17,000	4,000	1,500	4,500	3,000	16,000	2,500
Female	18,000	4,500	1,000	6,000	5,000	17,000	3,000
Environmental life sciences	11,000	2,000	500	1,500	1,000	10,500	2,000
Male	9,500	1,500	S	1,000	1,000	9,000	2,000
Female	6,500	500	S	1,500	500	6,000	500
Computer/mathematical sciences	25,500	6,000	2,500	11,000	6,500	24,000	4,500
Male	19,500	5,000	2,500	8,500	5,000	19,500	4,000
Female	17,000	3,500	1,500	7,000	4,500	14,500	2,000
Computer/information sciences	18,500	6,000	2,500	9,500	5,500	18,000	3,500
Male	15,500	4,500	2,500	8,000	4,000	16,000	3,500
Female	11,500	3,000	S	5,000	3,500	10,000	1,500
Mathematical sciences	19,000	2,500	*	5,500	4,000	17,000	2,500
Male	14,000	2,000	D	3,500	3,000	12,500	2,500
Female	13,000	1,500	D	4,500	2,500	11,000	1,000
Physical/related sciences	16,000	3,500	1,500	5,500	2,500	14,000	2,000
Male	13,500	2,500	1,000	4,000	2,000	12,500	1,500
Female	10,000	2,500	S	3,500	1,500	8,500	1,500
Chemistry, except biochemistry	12,000	2,500	S	4,500	2,000	11,000	1,500
Male	10,000	2,500	*	3,000	1,500	9,000	1,000
Female	7,500	1,500	S	3,000	1,500	6,500	1,000
Earth/atmospheric/ocean sciences	9,500	1,500	*	1,500	500	9,500	1,000
Male	8,500	1,500	*	1,000	500	8,500	1,000
Female	4,500	1,000	*	1,000	*	4,500	500
Physics/astronomy	7,500	1,500	S	3,500	1,500	6,000	500
Male	7,000	1,500	S	2,500	1,000	6,000	500
Female	3,000	1,000	D	2,500	S	2,000	*
Other physical sciences	6,000	1,500	D	1,000	2,000	5,500	1,500
Male	4,000	500	D	500	1,500	4,000	D
Female	4,500	1,500	D	1,000	S	4,000	S
Social/related sciences	54,000	12,500	3,500	11,000	13,000	51,500	8,500
Male	35,000	7,500	1,500	7,000	9,000	33,500	5,500
Female	38,500	9,500	3,000	9,000	9,500	36,500	6,500

TABLE A-6. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2008

Level and field of highest degree and sex	All scientists and engineers	Hispanic or Latino	Not Hispanic or Latino				
			American Indian or Alaska Native	Asian	Black or African American	White	Other ^a
Economics	22,500	4,500	500	7,500	3,500	21,000	3,000
Male	19,000	3,500	S	5,000	3,500	18,000	2,500
Female	12,500	2,500	D	6,000	2,000	10,500	1,500
Political/related sciences	25,500	5,000	1,000	5,000	6,000	23,500	4,000
Male	20,500	4,000	S	3,000	4,500	19,500	3,500
Female	16,000	3,500	500	4,000	4,000	14,000	2,500
Psychology	30,500	7,500	2,500	5,000	7,500	29,000	5,000
Male	18,000	4,000	S	3,000	4,500	16,000	3,000
Female	25,000	6,500	2,000	4,500	6,500	24,500	4,500
Sociology/anthropology	24,000	5,500	2,000	5,000	7,000	23,000	4,000
Male	15,000	3,500	1,000	3,000	5,000	13,000	3,500
Female	20,000	4,500	2,000	4,000	5,500	19,500	3,000
Other social sciences	19,000	4,500	S	4,000	5,000	17,000	3,000
Male	12,000	2,500	S	1,500	3,000	11,500	2,000
Female	14,500	4,000	S	3,500	4,000	12,500	2,000
Engineering	31,000	7,500	1,500	11,000	5,000	27,500	4,000
Male	29,500	6,500	1,500	10,000	4,000	26,000	3,500
Female	10,000	3,000	500	4,500	3,000	9,000	2,000
Aerospace/related engineering	7,000	1,500	500	1,500	1,000	6,000	1,500
Male	6,500	1,500	S	1,500	1,000	6,000	1,500
Female	2,000	*	D	500	*	2,000	*
Chemical engineering	8,500	2,000	1,500	3,000	1,000	7,500	1,500
Male	8,000	1,500	S	2,500	1,000	7,000	500
Female	3,500	1,000	*	1,500	500	3,000	1,000
Civil/architectural engineering	12,500	3,500	500	4,500	2,000	11,000	2,000
Male	12,000	3,000	500	4,000	2,000	10,500	2,000
Female	4,500	1,000	*	1,500	1,000	4,000	1,000
Electrical/computer engineering	16,000	4,000	500	7,500	3,500	13,500	2,500
Male	14,500	3,500	500	6,500	3,000	12,500	2,500
Female	6,000	2,000	D	3,500	2,000	4,000	1,000
Industrial engineering	9,500	3,000	D	3,000	2,000	8,500	1,000
Male	9,000	2,500	D	2,500	1,500	8,000	1,000
Female	3,500	1,500	D	1,500	1,500	3,000	500
Mechanical engineering	14,500	2,500	500	4,500	2,500	13,500	1,500
Male	14,500	2,500	500	4,500	2,500	13,500	1,500
Female	4,000	1,000	*	1,000	500	3,500	1,000
Other engineering	12,000	3,000	*	4,000	1,500	10,500	1,000
Male	11,500	3,000	D	3,500	1,500	10,500	1,000
Female	4,500	1,500	*	2,500	1,000	4,000	500
S&E-related fields	47,500	11,500	3,500	14,000	11,000	44,500	7,500
Male	30,500	7,000	2,000	9,500	6,500	26,500	5,000
Female	35,500	8,000	3,000	11,500	10,000	33,500	6,000
Health	40,500	9,000	3,000	12,000	10,000	37,500	7,000
Male	21,500	5,500	1,500	7,000	5,000	19,000	4,500
Female	33,500	7,000	3,000	10,500	9,000	31,000	6,000
Science/mathematics teacher education	18,500	3,000	1,000	3,000	3,500	17,000	2,000
Male	11,500	2,000	D	1,500	2,500	11,000	1,500
Female	14,500	2,500	1,000	2,500	2,500	13,000	S

TABLE A-6. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2008

Level and field of highest degree and sex	All scientists and engineers	Hispanic or Latino	Not Hispanic or Latino				
			American Indian or Alaska Native	Asian	Black or African American	White	Other ^a
Technology/technical fields	14,500	3,500	S	4,500	4,000	12,500	2,500
Male	14,000	3,500	D	4,000	3,500	11,500	2,000
Female	5,500	1,000	D	2,500	2,000	4,500	D
Other S&E-related fields	15,500	4,000	D	3,500	3,000	14,500	1,500
Male	13,000	3,500	D	3,000	3,000	12,500	1,500
Female	8,000	2,500	D	2,500	1,500	7,500	D
Non-S&E fields	55,000	10,500	4,000	12,500	14,500	51,500	5,500
Male	39,000	7,000	3,000	9,000	8,000	35,500	4,500
Female	37,500	7,500	3,000	8,500	11,500	35,000	4,500
Arts/humanities	15,500	3,000	D	4,000	2,500	14,500	1,500
Male	11,500	2,000	D	2,500	1,500	10,500	1,000
Female	11,500	2,500	D	3,500	2,500	11,000	1,000
Education, except science/mathematics teacher education	28,500	5,500	2,500	4,000	8,000	28,000	3,000
Male	20,000	2,500	1,500	2,500	4,000	18,500	2,000
Female	23,000	5,000	2,000	3,500	7,000	21,500	2,000
Management/administration	33,500	7,000	2,500	9,500	7,000	30,000	3,500
Male	25,000	5,000	2,000	7,000	5,500	23,500	3,000
Female	17,500	4,000	S	6,500	5,000	15,500	3,000
Sales/marketing	11,000	2,500	D	3,000	2,000	10,500	S
Male	8,500	2,000	D	2,000	2,000	8,000	S
Female	7,000	2,000	D	1,500	1,500	7,000	D
Social services/related	17,500	3,500	1,000	3,000	5,000	16,500	2,000
Male	11,000	2,500	D	2,000	3,000	10,000	S
Female	12,500	2,500	500	2,000	4,000	11,500	1,500
Other non-S&E fields	29,500	5,500	2,500	6,000	7,000	27,000	4,000
Male	21,500	3,500	2,000	3,500	4,000	20,000	3,000
Female	20,000	4,000	1,500	4,000	6,000	18,500	2,500
Bachelor's degrees	71,000	19,000	5,500	19,500	18,500	65,000	13,000
Male	54,000	12,500	4,000	13,500	11,500	49,000	9,000
Female	48,000	12,000	4,500	15,000	14,500	45,000	8,500
S&E fields	66,500	16,500	4,500	17,500	15,500	61,500	10,000
Male	50,500	11,500	3,500	12,000	10,500	46,000	7,500
Female	41,000	10,000	3,000	12,000	10,500	38,500	7,500
Sciences	63,500	14,500	4,500	16,500	15,500	58,000	9,500
Male	46,000	9,500	3,000	10,500	10,500	42,000	6,500
Female	40,500	10,000	3,000	12,000	10,500	38,000	7,000
Biological/agricultural/environmental life sciences	28,500	6,500	2,000	7,500	5,500	25,500	4,000
Male	21,000	4,500	1,500	4,500	3,000	20,000	3,000
Female	20,500	4,500	1,000	6,000	4,500	19,000	3,000
Agricultural/food sciences	13,500	2,500	S	3,000	1,500	12,500	2,500
Male	10,500	2,500	D	2,500	S	10,000	1,500
Female	9,000	1,500	D	2,000	1,000	8,500	S
Biological sciences	24,500	6,000	1,500	7,000	5,500	22,500	3,500
Male	16,500	3,500	1,500	4,000	2,500	15,500	2,000
Female	18,000	4,500	1,000	6,000	4,500	16,500	2,500
Environmental life sciences	10,000	2,000	1,000	1,500	1,000	9,000	S
Male	8,000	1,500	D	500	1,000	8,000	S
Female	6,000	500	D	1,500	*	5,500	*

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Level and field of highest degree and sex	All scientists and engineers	Hispanic or Latino	Not Hispanic or Latino				
			American Indian or Alaska Native	Asian	Black or African American	White	Other ^a
Computer/mathematical sciences	23,500	6,000	2,500	9,500	6,000	22,000	4,000
Male	18,000	4,500	2,500	7,500	4,500	17,500	4,000
Female	16,000	3,500	D	5,500	4,000	13,500	1,500
Computer/information sciences	16,000	5,500	2,500	8,500	5,500	15,500	3,500
Male	14,000	4,500	2,500	7,000	4,000	14,000	3,000
Female	11,000	3,000	D	4,500	3,500	9,500	1,500
Mathematical sciences	18,000	2,500	D	4,500	3,500	16,000	2,500
Male	13,500	2,000	D	3,000	3,000	12,500	2,500
Female	12,000	1,500	D	4,000	2,000	10,000	1,000
Physical/related sciences	15,000	3,500	1,000	4,500	2,500	13,000	2,000
Male	12,500	2,500	500	3,500	2,000	11,500	1,000
Female	9,000	2,500	S	3,000	1,500	8,000	1,500
Chemistry, except biochemistry	11,000	2,500	S	3,500	2,000	10,000	1,500
Male	9,000	2,500	D	2,500	1,500	8,000	1,000
Female	7,000	1,500	D	2,500	1,500	6,000	1,000
Earth/atmospheric/ocean sciences	8,000	1,500	*	1,000	500	8,000	500
Male	7,000	1,000	D	500	500	7,000	500
Female	4,000	1,000	D	*	*	4,000	*
Physics/astronomy	7,000	1,000	*	3,000	1,000	6,000	500
Male	6,500	1,000	D	2,500	1,000	5,500	500
Female	2,500	S	D	2,000	S	1,500	*
Other physical sciences	6,000	1,500	D	1,000	S	5,000	S
Male	4,000	500	D	*	S	4,000	D
Female	4,000	1,500	D	500	*	3,500	D
Social/related sciences	49,500	11,000	3,000	10,500	12,500	46,500	8,000
Male	32,500	7,000	1,500	6,500	8,500	30,500	5,000
Female	35,000	8,500	3,000	8,000	9,000	33,000	6,000
Economics	21,500	4,500	500	7,500	3,500	19,500	3,000
Male	18,500	3,500	D	4,500	3,000	17,500	2,500
Female	11,500	2,500	D	6,000	2,000	9,500	1,500
Political/related sciences	23,500	5,000	500	4,500	5,500	21,500	4,000
Male	19,000	4,000	D	3,000	4,000	17,500	3,000
Female	14,500	3,000	500	3,500	3,500	13,500	2,500
Psychology	26,500	6,500	2,000	4,500	7,000	25,000	4,500
Male	16,000	3,500	D	3,000	4,000	14,500	2,000
Female	22,000	6,000	2,000	4,000	5,500	21,000	4,000
Sociology/anthropology	23,500	5,000	2,000	5,000	7,000	23,000	4,000
Male	14,500	3,500	D	3,000	4,500	13,000	3,500
Female	19,500	4,000	2,000	4,000	5,000	19,000	3,000
Other social sciences	17,500	4,000	S	3,500	4,500	16,000	2,500
Male	11,000	2,000	D	1,500	3,000	10,500	2,000
Female	13,500	3,500	D	3,500	4,000	12,000	2,000
Engineering	28,500	6,500	1,500	9,500	4,500	24,500	3,500
Male	26,500	6,000	1,500	8,500	4,000	23,000	3,500
Female	9,000	2,500	500	4,000	2,500	8,000	2,000
Aerospace/related engineering	6,000	1,500	S	1,000	1,000	5,500	1,500
Male	6,000	1,500	D	1,000	1,000	5,500	1,500
Female	2,000	*	D	*	*	2,000	*

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Level and field of highest degree and sex	All scientists and engineers	Hispanic or Latino	Not Hispanic or Latino				
			American Indian or Alaska Native	Asian	Black or African American	White	Other ^a
Chemical engineering	8,000	1,500	1,500	2,500	1,000	7,000	1,500
Male	7,500	1,500	S	2,000	1,000	6,500	500
Female	3,500	500	D	1,500	500	3,000	1,000
Civil/architectural engineering	11,000	3,000	500	3,500	2,000	10,000	2,000
Male	10,500	3,000	500	3,500	2,000	10,000	2,000
Female	4,000	1,000	D	1,500	1,000	3,000	1,000
Electrical/computer engineering	13,500	3,500	500	6,000	3,000	11,500	2,500
Male	12,500	3,500	S	5,500	3,000	10,500	2,500
Female	4,500	1,500	D	2,500	2,000	3,500	1,000
Industrial engineering	9,000	3,000	D	2,500	2,000	8,000	1,000
Male	8,000	2,500	D	2,000	1,500	7,500	1,000
Female	3,500	1,500	D	1,500	1,500	3,000	500
Mechanical engineering	13,500	2,500	500	4,000	2,500	12,500	1,500
Male	13,500	2,500	500	4,000	2,500	12,500	1,000
Female	4,000	1,000	D	1,000	500	3,500	1,000
Other engineering	10,500	3,000	D	3,000	1,500	9,500	1,000
Male	10,500	2,500	D	2,500	1,000	9,500	1,000
Female	4,000	1,500	D	2,000	1,000	3,000	500
S&E-related fields	39,500	8,500	3,000	11,000	8,500	36,000	6,500
Male	22,000	5,000	2,000	6,500	5,500	18,500	4,000
Female	31,500	7,000	2,500	10,000	8,000	29,000	5,000
Health	33,000	6,500	2,500	9,500	8,000	30,000	6,000
Male	12,500	3,000	1,000	4,500	3,500	11,500	3,000
Female	29,000	6,000	2,500	9,000	8,000	26,000	5,000
Science/mathematics teacher education	14,000	2,500	D	2,000	2,500	13,500	D
Male	8,000	1,500	D	1,500	2,000	8,000	D
Female	10,500	2,000	D	2,000	1,500	10,000	D
Technology/technical fields	13,000	3,500	S	3,500	3,500	11,500	2,000
Male	12,500	3,000	D	3,500	3,500	11,000	2,000
Female	5,500	D	D	2,000	1,500	4,500	D
Other S&E-related fields	13,000	4,000	D	3,500	3,000	12,500	1,000
Male	11,500	3,000	D	3,000	2,500	10,500	1,000
Female	7,000	2,500	D	2,500	1,000	7,000	D
Non-S&E fields	29,000	4,500	3,000	5,500	7,000	25,500	3,000
Male	20,000	3,000	2,000	4,000	4,000	18,500	2,500
Female	21,500	3,000	S	4,500	5,500	19,000	2,000
Arts/humanities	13,000	2,000	D	2,000	2,000	12,500	1,000
Male	10,000	2,000	D	1,000	1,500	9,500	500
Female	8,500	1,500	D	2,000	S	8,500	S
Education, except science/mathematics teacher education	12,000	2,000	D	2,000	3,000	11,500	1,500
Male	7,000	1,500	D	S	1,500	6,500	D
Female	10,500	1,500	D	1,500	3,000	10,500	D
Management/administration	18,500	3,000	S	5,000	4,500	15,500	2,500
Male	13,000	2,500	D	3,000	3,000	12,000	2,000
Female	11,500	1,500	D	4,000	3,500	9,500	1,000
Sales/marketing	6,000	1,000	D	D	S	5,500	D
Male	4,500	D	D	D	D	4,500	D
Female	4,000	D	D	D	D	4,000	D

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Level and field of highest degree and sex	All scientists and engineers	Hispanic or Latino	Not Hispanic or Latino				
			American Indian or Alaska Native	Asian	Black or African American	White	Other ^a
Social services/related	5,500	S	D	1,000	2,000	5,000	D
Male	4,000	D	D	S	D	4,000	D
Female	3,500	D	D	D	1,500	3,000	D
Other non-S&E fields	11,000	2,000	S	2,000	3,000	11,000	1,500
Male	8,000	1,000	D	1,000	1,500	8,000	S
Female	8,000	2,000	D	1,500	3,000	7,500	D
Master's degrees	54,500	9,500	3,500	14,000	13,500	50,500	6,500
Male	40,000	6,500	2,500	10,500	8,000	36,500	5,000
Female	35,500	7,500	2,500	9,500	11,000	34,000	4,500
S&E fields	31,000	6,000	2,000	9,500	5,500	28,000	4,000
Male	22,000	4,500	1,500	7,500	3,500	21,000	3,000
Female	19,000	4,000	1,500	6,000	4,500	16,500	2,500
Sciences	27,500	5,000	2,000	7,500	5,500	25,000	3,500
Male	18,000	4,000	1,500	5,500	3,500	17,000	3,000
Female	18,000	4,000	1,500	5,500	4,500	15,500	2,500
Biological/agricultural/environmental life sciences	10,000	2,500	1,000	3,000	2,000	8,500	2,000
Male	7,000	2,000	D	2,000	1,500	6,500	1,500
Female	6,500	1,500	*	2,500	1,000	6,000	1,000
Agricultural/food sciences	4,000	1,000	D	1,000	1,500	3,500	S
Male	3,000	*	D	1,000	S	2,500	D
Female	2,500	1,000	D	500	*	2,000	D
Biological sciences	8,500	2,500	*	3,000	1,500	7,500	1,000
Male	6,000	2,000	D	1,500	1,000	5,500	1,000
Female	6,000	1,500	D	2,500	1,000	5,500	500
Environmental life sciences	4,500	500	D	1,000	500	4,000	S
Male	3,500	*	D	1,000	D	3,000	D
Female	3,000	*	D	500	500	3,000	*
Computer/mathematical sciences	11,500	2,000	S	6,000	2,500	10,000	1,500
Male	9,500	2,000	D	4,500	1,500	8,500	1,500
Female	6,500	1,000	D	4,000	2,000	5,000	1,000
Computer/information sciences	10,000	2,000	D	5,500	2,000	8,500	1,500
Male	8,500	1,500	D	4,500	1,500	7,500	1,500
Female	5,500	1,000	D	3,500	1,500	4,000	1,000
Mathematical sciences	6,500	1,000	D	2,500	1,500	6,000	500
Male	5,000	1,000	D	2,000	1,000	4,500	500
Female	4,000	*	D	2,000	1,500	3,500	*
Physical/related sciences	7,000	1,500	S	3,000	1,000	6,000	1,000
Male	6,000	1,000	D	2,000	1,000	5,500	1,000
Female	3,500	500	D	2,000	S	3,000	*
Chemistry, except biochemistry	4,000	500	D	2,000	500	3,500	500
Male	3,000	500	D	1,500	500	3,000	500
Female	2,500	*	D	1,500	*	2,000	D
Earth/atmospheric/ocean sciences	4,500	500	*	1,500	*	4,500	500
Male	4,000	500	D	1,000	*	3,500	500
Female	2,000	*	D	1,000	*	2,000	*
Physics/astronomy	3,500	1,000	D	2,000	1,000	3,000	*
Male	3,500	1,000	D	1,500	1,000	3,000	*
Female	1,500	*	D	1,000	D	1,000	D

TABLE A-6. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2008

Level and field of highest degree and sex	All scientists and engineers	Hispanic or Latino	Not Hispanic or Latino				
			American Indian or Alaska Native	Asian	Black or African American	White	Other ^a
Other physical sciences	2,000	D	D	D	S	1,500	D
Male	1,000	D	D	D	D	1,000	D
Female	1,500	D	D	D	S	1,500	D
Social/related sciences	20,500	4,500	1,500	4,000	4,500	18,500	3,000
Male	13,000	3,000	S	2,000	2,500	12,500	2,500
Female	15,000	3,500	1,500	3,500	4,000	13,500	2,000
Economics	6,500	1,500	D	2,000	1,500	6,500	S
Male	5,500	1,500	D	1,500	1,500	5,500	S
Female	4,000	S	D	1,500	500	4,000	D
Political/related sciences	9,500	2,000	D	2,000	2,000	9,000	1,000
Male	8,000	1,000	D	1,000	1,500	7,500	1,000
Female	5,500	1,500	D	1,500	1,500	4,500	500
Psychology	15,500	3,000	1,500	2,500	4,000	14,000	2,500
Male	8,000	2,000	D	1,000	1,500	7,000	2,000
Female	12,500	2,500	1,500	2,000	3,500	11,500	1,500
Sociology/anthropology	5,500	2,000	S	1,000	1,500	5,000	1,000
Male	4,500	1,500	D	500	1,000	4,000	S
Female	3,500	1,500	*	1,000	1,500	3,000	500
Other social sciences	6,500	2,000	*	2,000	1,500	6,000	1,000
Male	4,500	1,000	D	1,000	500	4,000	500
Female	5,500	1,500	*	2,000	1,500	4,500	1,000
Engineering	12,500	3,000	500	6,000	1,500	11,000	2,000
Male	12,000	2,500	*	5,500	1,500	10,500	2,000
Female	5,000	1,500	*	2,500	500	4,000	500
Aerospace/related engineering	2,000	1,000	D	1,000	*	2,000	500
Male	2,000	S	D	1,000	*	2,000	500
Female	1,000	*	D	*	*	1,000	*
Chemical engineering	3,000	1,000	D	2,000	500	2,500	*
Male	3,000	500	D	2,000	500	2,500	D
Female	1,500	S	D	1,000	*	1,000	D
Civil/architectural engineering	5,500	1,000	D	2,500	1,000	4,500	1,000
Male	5,500	1,000	D	2,000	500	4,500	1,000
Female	2,500	500	D	1,000	*	2,000	*
Electrical/computer engineering	7,500	2,000	D	4,000	1,000	6,000	1,000
Male	7,000	1,500	D	4,000	1,000	6,000	1,000
Female	3,000	1,500	D	2,000	500	2,000	D
Industrial engineering	3,500	1,000	D	1,500	1,000	3,000	*
Male	3,000	1,000	D	1,500	1,000	3,000	*
Female	2,000	*	D	500	*	1,500	*
Mechanical engineering	5,000	1,000	D	2,000	1,000	4,500	1,000
Male	4,500	1,000	D	2,000	1,000	4,000	1,000
Female	1,500	*	D	500	*	1,500	*
Other engineering	6,000	1,500	*	2,500	1,000	5,000	1,000
Male	6,000	1,000	D	2,500	1,000	5,000	500
Female	2,000	500	D	1,500	500	2,000	*
S&E-related fields	22,000	4,500	1,500	5,000	6,000	20,500	3,000
Male	14,000	2,500	500	3,500	3,000	12,000	2,000
Female	18,500	4,000	1,500	4,500	5,000	17,000	2,500

TABLE A-6. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2008

Level and field of highest degree and sex	All scientists and engineers	Hispanic or Latino	Not Hispanic or Latino				
			American Indian or Alaska Native	Asian	Black or African American	White	Other ^a
Health	17,500	3,500	1,500	4,500	5,000	16,500	2,500
Male	8,500	1,500	500	2,500	2,000	8,000	2,000
Female	16,000	3,500	S	4,000	4,000	15,000	2,000
Science/mathematics teacher education	10,500	2,000	D	2,000	3,000	9,500	2,000
Male	7,000	S	D	1,000	1,500	6,000	S
Female	8,500	1,500	D	1,500	2,500	8,000	S
Technology/technical fields	5,000	1,000	D	2,500	2,000	4,000	D
Male	4,500	S	D	2,000	1,500	3,500	D
Female	2,500	D	D	1,000	S	2,000	D
Other S&E-related fields	7,500	1,500	D	2,000	1,500	7,000	1,000
Male	6,500	1,500	D	1,500	1,500	6,000	S
Female	4,000	1,000	D	1,000	S	3,500	D
Non-S&E fields	42,000	8,000	3,000	9,500	12,000	39,000	4,500
Male	31,000	5,000	2,500	7,500	7,000	28,000	3,500
Female	29,500	6,500	2,000	7,000	9,500	27,500	3,500
Arts/humanities	9,500	2,000	D	3,500	S	8,500	1,000
Male	6,000	1,000	D	2,000	D	5,500	D
Female	7,000	2,000	D	2,500	S	6,500	500
Education, except science/mathematics teacher education	26,000	5,000	2,000	3,500	7,000	25,500	2,500
Male	17,000	2,500	1,500	2,000	3,500	16,000	2,000
Female	20,500	4,500	S	3,000	6,000	19,000	2,000
Management/administration	26,500	6,500	1,500	7,500	6,000	25,000	3,000
Male	22,000	4,500	1,500	6,000	5,000	20,000	2,000
Female	14,500	3,500	S	4,500	4,000	13,500	2,500
Sales/marketing	9,500	2,500	D	2,500	2,000	8,500	D
Male	7,000	S	D	2,000	2,000	6,500	D
Female	6,000	2,000	D	1,500	S	6,000	D
Social services/related	15,000	3,000	1,000	2,500	4,500	14,500	1,500
Male	9,500	2,000	D	2,000	3,000	8,500	D
Female	11,500	2,000	500	2,000	4,000	11,000	1,500
Other non-S&E fields	15,000	2,500	S	3,500	5,000	13,500	2,500
Male	11,000	1,500	D	2,000	3,000	11,000	2,000
Female	10,500	2,500	D	3,000	4,000	10,000	1,500
Doctoral degrees	10,500	2,500	500	3,500	2,500	10,000	1,500
Male	8,500	1,500	500	3,000	1,500	8,000	1,000
Female	6,500	2,000	500	2,500	2,000	6,000	1,000
S&E fields	5,500	1,000	500	3,000	1,000	4,500	500
Male	4,500	1,000	500	2,500	1,000	3,500	500
Female	3,000	1,000	*	2,000	500	2,500	500
Sciences	5,000	1,000	500	2,500	1,000	4,000	500
Male	4,000	1,000	500	2,500	1,000	3,500	500
Female	3,000	1,000	*	1,500	500	2,500	500
Biological/agricultural/environmental life sciences	3,000	1,000	*	2,000	500	2,500	500
Male	2,500	500	*	2,000	500	2,000	500
Female	2,000	500	*	1,000	500	2,000	500
Agricultural/food sciences	1,000	500	D	500	500	1,000	*
Male	1,000	500	D	500	500	1,000	*
Female	500	*	D	500	*	500	D

TABLE A-6. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2008

Level and field of highest degree and sex	All scientists and engineers	Hispanic or Latino	Not Hispanic or Latino				
			American Indian or Alaska Native	Asian	Black or African American	White	Other ^a
Biological sciences	3,000	1,000	*	2,000	500	2,500	500
Male	2,500	500	*	1,500	500	2,000	500
Female	2,000	500	*	1,000	500	2,000	500
Environmental life sciences	500	*	D	500	*	500	D
Male	500	*	D	*	*	500	D
Female	500	*	D	*	D	500	D
Computer/mathematical sciences	2,000	500	D	1,000	500	2,000	500
Male	2,000	500	D	1,000	500	2,000	*
Female	500	*	D	500	*	500	*
Computer/information sciences	1,500	500	D	1,000	500	1,500	*
Male	1,500	500	D	1,000	*	1,500	*
Female	500	*	D	500	*	500	*
Mathematical sciences	1,500	500	D	500	500	1,000	*
Male	1,000	500	D	500	500	1,000	*
Female	500	*	D	500	*	500	*
Physical/related sciences	2,500	500	*	1,500	500	2,000	500
Male	2,000	500	*	1,000	500	2,000	500
Female	1,000	500	D	1,000	500	1,000	*
Chemistry, except biochemistry	1,500	500	*	1,000	500	1,500	500
Male	1,500	500	*	1,000	500	1,500	500
Female	1,000	500	D	500	*	500	*
Earth/atmospheric/ocean sciences	1,000	500	D	500	*	1,000	*
Male	1,000	*	D	500	*	1,000	*
Female	500	*	D	500	D	500	*
Physics/astronomy	1,500	500	D	1,000	500	1,000	*
Male	1,500	500	D	500	500	1,000	*
Female	1,000	*	D	500	*	500	D
Other physical sciences	1,000	D	D	*	*	1,000	D
Male	1,000	D	D	*	D	1,000	D
Female	500	D	D	*	D	500	D
Social/related sciences	2,500	500	500	1,000	500	2,000	500
Male	1,500	500	*	1,000	500	1,500	500
Female	2,000	500	*	1,000	500	1,500	500
Economics	1,000	500	D	1,000	500	500	*
Male	1,000	500	D	500	500	500	*
Female	500	*	D	500	*	500	D
Political/related sciences	1,000	500	*	500	500	1,000	*
Male	1,000	*	D	500	500	1,000	*
Female	500	*	*	500	500	500	*
Psychology	2,000	500	*	1,000	500	1,500	500
Male	1,000	500	*	500	500	1,000	500
Female	1,500	500	*	1,000	500	1,500	500
Sociology/anthropology	1,000	500	*	500	500	1,000	500
Male	500	500	D	500	500	500	*
Female	500	500	*	500	500	500	*
Other social sciences	1,000	500	*	500	500	1,000	*
Male	1,000	*	D	500	500	1,000	*
Female	1,000	*	D	500	500	1,000	*

TABLE A-6. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2008

Level and field of highest degree and sex	All scientists and engineers	Hispanic or Latino	Not Hispanic or Latino				
			American Indian or Alaska Native	Asian	Black or African American	White	Other ^a
Engineering	2,500	500	*	1,500	500	1,500	500
Male	2,000	500	D	1,500	500	1,500	500
Female	1,000	500	D	1,000	*	500	*
Aerospace/related engineering	1,000	*	D	500	*	1,000	D
Male	1,000	*	D	500	*	1,000	D
Female	*	D	D	*	D	*	D
Chemical engineering	1,000	500	D	1,000	500	1,000	*
Male	1,000	*	D	1,000	*	1,000	*
Female	500	*	D	500	*	500	D
Civil/architectural engineering	1,000	*	D	500	*	1,000	*
Male	1,000	*	D	500	*	1,000	D
Female	500	*	D	500	*	500	D
Electrical/computer engineering	1,500	500	D	1,000	500	1,000	500
Male	1,500	500	D	1,000	500	1,000	*
Female	1,000	*	D	1,000	*	500	D
Industrial engineering	500	*	D	500	*	500	D
Male	500	*	D	500	*	500	D
Female	500	D	D	*	*	500	D
Mechanical engineering	1,000	*	D	1,000	*	1,000	*
Male	1,000	*	D	1,000	*	1,000	*
Female	500	D	D	500	D	*	D
Other engineering	1,500	500	D	1,000	500	1,000	*
Male	1,500	500	D	1,000	*	1,000	*
Female	500	*	D	500	*	500	*
S&E-related fields	4,000	1,000	*	1,500	1,000	3,500	500
Male	3,500	1,000	D	1,000	1,000	3,000	500
Female	2,500	1,000	*	1,000	1,000	2,000	500
Health	3,000	1,000	*	1,000	1,000	2,500	500
Male	2,500	1,000	D	1,000	1,000	2,000	*
Female	2,500	1,000	*	1,000	1,000	2,000	500
Science/mathematics teacher education	2,000	D	D	D	500	2,000	D
Male	2,000	D	D	D	D	1,500	D
Female	1,000	D	D	D	500	1,000	D
Technology/technical fields	2,000	D	D	1,000	D	1,500	D
Male	1,500	D	D	1,000	D	1,500	D
Female	D	D	D	D	D	D	D
Other S&E-related fields	1,500	D	D	D	D	1,500	D
Male	1,500	D	D	D	D	D	D
Female	500	D	D	D	D	500	D
Non-S&E fields	8,500	2,000	D	2,000	2,500	8,000	1,000
Male	7,000	1,500	D	1,500	1,500	6,500	D
Female	5,500	2,000	D	1,500	2,000	4,500	1,000
Arts/humanities	3,000	1,500	D	*	D	3,000	D
Male	2,500	D	D	D	D	2,500	D
Female	2,000	D	D	D	D	2,000	D
Education, except science/mathematics teacher education	6,500	1,500	D	1,000	2,000	6,000	500
Male	4,500	1,000	D	500	1,000	4,500	D
Female	4,500	1,000	D	500	2,000	4,000	500

TABLE A-6. Standard errors for U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2008

Level and field of highest degree and sex	All scientists and engineers	Hispanic or Latino	Not Hispanic or Latino				
			American Indian or Alaska Native	Asian	Black or African American	White	Other ^a
Management/administration	3,000	D	D	2,000	D	2,500	D
Male	2,500	D	D	1,500	D	2,000	D
Female	1,500	D	D	1,000	D	S	D
Sales/marketing	1,000	D	D	D	D	500	D
Male	500	D	D	D	D	D	D
Female	500	D	D	D	D	D	D
Social services/related	3,500	D	D	500	1,000	3,500	D
Male	3,500	D	D	D	1,000	3,000	D
Female	1,500	D	D	D	D	1,500	D
Other non-S&E fields	4,000	S	D	*	D	3,500	D
Male	3,000	D	D	D	D	3,000	D
Female	3,000	D	D	D	D	2,500	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.