TABLE A-5. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2006

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
All degree fields and occupations	83,000	70,000	46,000	9,000
S&E occupations	43,000	32,000	20,000	5,000
Biological/agricultural/environmental life scientists	12,000	9,000	5,000	3,000
Computer/mathematical scientists	27,000	23,000	13,000	3,000
Physical scientists	9,000	7,000	4,000	2,000
Social scientists	12,000	7,000	9,000	2,000
Engineers	21,000	16,000	10,000	2,000
S&E-related occupations	45,000	35,000	24,000	3,000
Health occupations	35,000	29,000	15,000	2,000
S&E managers	13,000	10,000	8,000	1,000
S&E precollege teachers	19,000	12,000	14,000	2,000
S&E technologists/technicians	13,000	11,000	5,000	500
Other S&E-related occupations	9,000	8,000	5,000	500
Non-S&E occupations	73,000	61,000	41,000	7,000
Art/humanities/related occupations	15,000	11,000	8,000	1,000
Management-related occupations	31,000	25,000	17,000	3,000
Non-S&E managers	26,000	19,000	18,000	3,000
Non-S&E postsecondary teachers	7,000	4,000	5,000	3,000
Non-S&E precollege/other teachers	23,000	18,000	15,000	2,000
Sales/marketing occupations	32,000	29,000	15,000	2,000
Social services/related occupations	18,000	12,000	13,000	2,000
Other non-S&E occupations	45,000	36,000	18,000	2,000
Biological/agricultural/environmental life sciences degree fields	28,000	27,000	8,000	3,000
S&E occupations	12,000	11,000	5,000	2,000
Biological/agricultural/environmental life scientists	10,000	8,000	4,000	2,000
Computer/mathematical scientists	5,000	5,000	2,000	1,000
Physical scientists	4,000	3,000	1,000	500
Social scientists	1,000	1,000	500	500
Engineers	3,000	3,000	1,000	500
S&E-related occupations	13,000	12,000	4,000	1,000
Health occupations	10,000	10,000	3,000	1,000
S&E managers	2,000	2,000	1,000	1,000
S&E precollege teachers	6,000	6,000	2,000	500
S&E technologists/technicians	6,000	5,000	2,000	500
Other S&E-related occupations	1,000	S	S	S
Non-S&E occupations	23,000	22,000	6,000	1,000
Art/humanities/related occupations	4,000	4,000	2,000	500
Management-related occupations	9,000	8,000	2,000	500
Non-S&E managers	7,000	7,000	2,000	1,000
Non-S&E postsecondary teachers	1,000	1,000	500	500
Non-S&E precollege/other teachers	5,000	5,000	1,000	*
Sales/marketing occupations	11,000	11,000	3,000	500
Social services/related occupations	2,000	2,000	S	*
Other non-S&E occupations	15,000	15,000	3,000	1,000
Computer/mathematical science degree fields	23,000	21,000	10,000	2,000
S&E occupations	17,000	14,000	8,000	1,000
Biological/agricultural/environmental life scientists	1,000	500	500	*
Computer/mathematical scientists	16,000	14,000	7,000	1,000
Physical scientists	1,000	1,000	500	*
Social scientists	2,000	1,000	1,000	*
Engineers	4,000	3,000	2,000	1,000
S&E-related occupations	8,000	7,000	4,000	500
Health occupations	2,000	2,000	1,000	*

TABLE A-5. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2006

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
S&E managers	5,000	4,000	3,000	500
S&E precollege teachers	5,000	4,000	2,000	*
S&E technologists/technicians	4,000	4,000	2,000	500
Other S&E-related occupations	3,000	3,000	1,000	*
Non-S&E occupations	18,000	16,000	7,000	1,000
Art/humanities/related occupations	4,000	3,000	S	*
Management-related occupations	8,000	7,000	4,000	500
Non-S&E managers	6,000	5,000	3,000	500
Non-S&E postsecondary teachers	1,000	1,000	1,000	500
Non-S&E precollege/other teachers	4,000	4,000	1,000	S
Sales/marketing occupations	8,000	7,000	3,000	500
Social services/related occupations	2,000	2,000	S	*
Other non-S&E occupations	10,000	9,000	2,000	*
Physical/related science degree fields	14,000	13,000	6,000	2,000
S&E occupations	9,000	8,000	4,000	2,000
Biological/agricultural/environmental life scientists	2,000	1,000	1,000	1,000
Computer/mathematical scientists	4,000	4,000	2,000	1,000
Physical scientists	7,000	6,000	3,000	2,000
Social scientists	500	500	*	*
Engineers	4,000	3,000	1,000	1,000
S&E-related occupations	6,000	5,000	3,000	1,000
Health occupations	3,000	3,000	1,000	500
S&E managers	2,000	1,000	1,000	1,000
S&E precollege teachers	4,000	3,000	2,000	500
S&E technologists/technicians	2,000	2,000	1,000	500
Other S&E-related occupations	1,000	S	S	S
Non-S&E occupations	11,000	11,000	4,000	1,000
Art/humanities/related occupations	2,000	1,000	S	500
Management-related occupations	6,000	5,000	2,000	1,000
Non-S&E managers	5,000	4,000	2,000	1,000
Non-S&E postsecondary teachers	500	500	S	*
Non-S&E precollege/other teachers	2,000	2,000	1,000	*
Sales/marketing occupations	5,000	5,000	1,000	1,000
Social services/related occupations	2,000	2,000	S	*
Other non-S&E occupations	6,000	6,000	2,000	500
Social/related science degree fields	50,000	46,000	17,000	2,000
S&E occupations	13,000	10,000	7,000	2,000
Biological/agricultural/environmental life scientists	3,000	3,000	1,000	500
Computer/mathematical scientists	8,000	8,000	3,000	500
Physical scientists	1,000	1,000	500	500
Social scientists	9,000	6,000	7,000	2,000
Engineers	3,000	3,000	1,000	500
S&E-related occupations	13,000	12,000	5,000	1,000
Health occupations	10,000	10,000	4,000	500
S&E managers	5,000	4,000	2,000	1,000
S&E precollege teachers	5,000	4,000	3,000	*
S&E technologists/technicians	4,000	4,000	1,000	*
Other S&E-related occupations	1,000	1,000	1,000	S
Non-S&E occupations	48,000	43,000	17,000	1,000
Art/humanities/related occupations	9,000	8,000	3,000	500
Management-related occupations	19,000	18,000	6,000	1,000
Non-S&E managers	14,000	12,000	7,000	1,000
Non-S&E postsecondary teachers	3,000	3,000	2,000	1,000
Non-S&E precollege/other teachers	14,000	13,000	5,000	500

TABLE A-5. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2006

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
Sales/marketing occupations	20,000	20,000	6,000	500
Social services/related occupations	13,000	10,000	7,000	500
Other non-S&E occupations	28,000	26,000	7,000	500
Engineering degree fields	27,000	24,000	12,000	2,000
S&E occupations	21,000	17,000	9,000	2,000
Biological/agricultural/environmental life scientists	1,000	1,000	1,000	1,000
Computer/mathematical scientists	10,000	8,000	5,000	1,000
Physical scientists	2,000	1,000	1,000	500
Social scientists	1,000	1,000	1,000	*
Engineers	17,000	14,000	7,000	2,000
S&E-related occupations	9,000	8,000	3,000	1,000
Health occupations	2,000	2,000	1,000	500
S&E managers	6,000	5,000	2,000	500
S&E precollege teachers	2,000	2,000	1,000	500
S&E technologists/technicians	5,000	5,000	1,000	500
Other S&E-related occupations	3,000	2,000	2,000	S
Non-S&E occupations	18,000	17,000	6,000	1,000
Art/humanities/related occupations	2,000	2,000	1,000	*
Management-related occupations	7,000	6,000	3,000	1,000
Non-S&E managers	9,000	8,000	4,000	1,000
Non-S&E postsecondary teachers	1,000	500	1,000	500
Non-S&E precollege/other teachers	2,000	1,000	1,000	S
Sales/marketing occupations	7,000	7,000	3,000	500
Social services/related occupations	2,000	2,000	S	S
Other non-S&E occupations	10,000	10,000	2,000	500
S&E-related degree fields	43,000	38,000	19,000	3,000
S&E occupations	11,000	9,000	5,000	2,000
Biological/agricultural/environmental life scientists	4,000	2,000	2,000	1,000
Computer/mathematical scientists	7,000	6,000	3,000	1,000
Physical scientists	2,000	1,000	2,000	1,000
Social scientists	4,000	3,000	2,000	500
Engineers	5,000	5,000	2,000	1,000
S&E-related occupations	33,000	27,000	15,000	2,000
Health occupations	31,000	24,000	13,000	1,000
S&E managers	6,000	4,000	4,000	500
S&E precollege teachers	9,000	6,000	7,000	S
S&E technologists/technicians	4,000	4,000	2,000	S
Other S&E-related occupations	9,000	7,000	4,000	S
Non-S&E occupations	27,000	24,000	13,000	2,000
Art/humanities/related occupations	5,000	4,000	3,000	S
Management-related occupations	9,000	8,000	5,000	1,000
Non-S&E managers	9,000	7,000	4,000	1,000
Non-S&E postsecondary teachers	3,000	2,000	2,000	1,000
Non-S&E precollege/other teachers	10,000	8,000	6,000	S
Sales/marketing occupations	12,000	12,000	4,000	1,000
Social services/related occupations	6,000	4,000	4,000	500
Other non-S&E occupations	16,000	15,000	6,000	1,000
Non-S&E degree fields	47,000	28,000	36,000	7,000
S&E occupations	19,000	14,000	12,000	2,000
Biological/agricultural/environmental life scientists	4,000	3,000	2,000	1,000
Computer/mathematical scientists	16,000	13,000	8,000	1,000
Physical scientists	2,000	2,000	1,000	S
Social scientists	7,000	4,000	5,000	1,000
Engineers	8,000	4,000	7,000	1,000

TABLE A-5. Standard errors for employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2006

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels[a]	Bachelor's	Master's	Doctorate
S&E-related occupations	22,000	17,000	16,000	2,000
Health occupations	14,000	11,000	9,000	1,000
S&E managers	7,000	5,000	6,000	S
S&E precollege teachers	14,000	8,000	11,000	2,000
S&E technologists/technicians	6,000	6,000	3,000	S
Other S&E-related occupations	3,000	3,000	1,000	S
Non-S&E occupations	38,000	16,000	32,000	6,000
Art/humanities/related occupations	7,000	4,000	5,000	500
Management-related occupations	16,000	7,000	14,000	3,000
Non-S&E managers	15,000	5,000	14,000	3,000
Non-S&E postsecondary teachers	6,000	1,000	4,000	3,000
Non-S&E precollege/other teachers	14,000	6,000	13,000	2,000
Sales/marketing occupations	13,000	6,000	11,000	2,000
Social services/related occupations	11,000	2,000	11,000	2,000
Other non-S&E occupations	24,000	8,000	14,000	2,000

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

S&E = science and engineering.

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

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field through 2005, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See http://sestat.nsf.gov/docs/ed03maj.html for a detailed description of the educational field classification and http://sestat.nsf.gov/docs/occ03maj.html for a detailed description of the occupational classification. Standard errors of less than 500 are rounded up to 500, and standard errors equal to or greater than 500 are rounded up to the nearest thousand.

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