

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
All degree levels and occupations ^a	82,000	50,000	40,000	74,000	40,000	54,000
<30	30,000	19,000	14,000	24,000	12,000	19,000
30-39	45,000	24,000	23,000	40,000	22,000	31,000
40-49	49,000	26,000	24,000	45,000	22,000	30,000
50-59	47,000	21,000	21,000	41,000	16,000	31,000
60+	25,000	11,000	11,000	22,000	8,000	17,000
S&E occupations	39,000	28,000	10,000	30,000	23,000	17,000
<30	16,000	13,000	6,000	10,000	9,000	6,000
30-39	21,000	15,000	5,000	16,000	14,000	11,000
40-49	25,000	16,000	5,000	19,000	15,000	10,000
50-59	16,000	10,000	5,000	14,000	9,000	9,000
60+	8,000	6,000	3,000	6,000	3,000	4,000
Scientists	34,000	23,000	10,000	25,000	21,000	14,000
<30	15,000	11,000	6,000	9,000	9,000	5,000
30-39	19,000	13,000	4,000	14,000	13,000	9,000
40-49	19,000	12,000	5,000	14,000	14,000	9,000
50-59	13,000	7,000	4,000	11,000	9,000	7,000
60+	7,000	4,000	3,000	4,000	3,000	3,000
Biological/agricultural/other life scientists	10,000	8,000	3,000	8,000	3,000	6,000
<30	5,000	5,000	2,000	3,000	2,000	2,000
30-39	5,000	4,000	1,000	3,000	1,000	4,000
40-49	6,000	5,000	2,000	5,000	1,000	4,000
50-59	4,000	3,000	1,000	4,000	1,000	3,000
60+	2,000	1,000	1,000	2,000	500	2,000
Agricultural/food scientists	4,000	3,000	1,000	2,000	1,000	2,000
<30	2,000	2,000	S	1,000	S	500
30-39	2,000	2,000	500	1,000	500	1,000
40-49	2,000	2,000	1,000	2,000	*	1,000
50-59	2,000	1,000	S	1,000	500	1,000
60+	1,000	500	S	1,000	S	500
Biological/medical scientists	9,000	7,000	2,000	6,000	2,000	5,000
<30	5,000	5,000	1,000	2,000	1,000	2,000
30-39	5,000	4,000	1,000	3,000	1,000	3,000
40-49	5,000	4,000	500	4,000	1,000	3,000
50-59	3,000	2,000	500	3,000	1,000	2,000
60+	2,000	1,000	1,000	1,000	500	1,000
Environmental life scientists	4,000	2,000	500	4,000	2,000	3,000
<30	1,000	500	S	1,000	1,000	500
30-39	1,000	1,000	S	1,000	S	1,000
40-49	2,000	2,000	S	2,000	1,000	1,000
50-59	3,000	1,000	S	2,000	1,000	2,000
60+	1,000	*	S	1,000	S	S
Postsecondary teachers-life/related sciences	3,000	2,000	2,000	1,000	1,000	1,000
<30	2,000	1,000	1,000	1,000	S	S
30-39	1,000	1,000	1,000	1,000	S	500
40-49	1,000	1,000	1,000	1,000	*	500
50-59	1,000	1,000	1,000	500	S	500
60+	1,000	500	1,000	500	S	500
Computer/mathematical scientists	27,000	18,000	7,000	21,000	21,000	9,000
<30	11,000	8,000	4,000	8,000	9,000	3,000
30-39	16,000	11,000	3,000	12,000	13,000	5,000
40-49	15,000	9,000	3,000	12,000	13,000	4,000
50-59	10,000	6,000	3,000	8,000	8,000	4,000
60+	5,000	3,000	2,000	3,000	3,000	2,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Computer/information scientists	26,000	17,000	6,000	21,000	21,000	8,000
<30	11,000	7,000	4,000	8,000	8,000	3,000
30-39	16,000	10,000	2,000	12,000	13,000	5,000
40-49	14,000	9,000	3,000	11,000	12,000	4,000
50-59	9,000	5,000	2,000	8,000	8,000	3,000
60+	4,000	3,000	1,000	3,000	3,000	1,000
Mathematical scientists	6,000	4,000	1,000	3,000	4,000	3,000
<30	2,000	1,000	S	1,000	2,000	1,000
30-39	3,000	3,000	*	2,000	2,000	1,000
40-49	3,000	1,000	*	2,000	3,000	3,000
50-59	2,000	2,000	1,000	2,000	1,000	500
60+	1,000	1,000	S	1,000	1,000	500
Postsecondary teachers-computer/mathematical sciences	4,000	3,000	4,000	1,000	2,000	2,000
<30	2,000	2,000	2,000	500	500	500
30-39	2,000	1,000	2,000	1,000	1,000	500
40-49	2,000	1,000	2,000	1,000	2,000	500
50-59	2,000	1,000	2,000	1,000	1,000	1,000
60+	1,000	1,000	1,000	500	1,000	1,000
Physical/related scientists	9,000	7,000	3,000	6,000	3,000	6,000
<30	4,000	4,000	2,000	2,000	1,000	2,000
30-39	4,000	3,000	2,000	3,000	1,000	2,000
40-49	5,000	4,000	2,000	3,000	2,000	4,000
50-59	3,000	3,000	1,000	2,000	2,000	2,000
60+	2,000	2,000	1,000	1,000	1,000	1,000
Chemists, except biochemists	6,000	5,000	500	4,000	1,000	3,000
<30	4,000	4,000	S	2,000	1,000	1,000
30-39	2,000	2,000	*	2,000	1,000	1,000
40-49	3,000	2,000	*	3,000	1,000	2,000
50-59	2,000	2,000	*	2,000	500	1,000
60+	1,000	1,000	*	500	*	1,000
Earth/atmospheric/ocean scientists	5,000	4,000	500	2,000	2,000	2,000
<30	1,000	1,000	S	500	500	500
30-39	1,000	1,000	500	1,000	1,000	1,000
40-49	4,000	3,000	S	1,000	2,000	1,000
50-59	2,000	2,000	S	1,000	1,000	1,000
60+	1,000	1,000	*	500	500	1,000
Physicists/astronomers	2,000	1,000	500	1,000	1,000	1,000
<30	500	500	S	*	500	500
30-39	1,000	1,000	*	1,000	500	500
40-49	1,000	1,000	*	500	500	500
50-59	1,000	1,000	S	1,000	1,000	1,000
60+	1,000	500	*	500	500	500
Postsecondary teachers-physical/related sciences	3,000	2,000	3,000	1,000	500	2,000
<30	1,000	1,000	1,000	500	*	1,000
30-39	1,000	1,000	1,000	1,000	*	*
40-49	2,000	1,000	2,000	500	*	1,000
50-59	1,000	1,000	1,000	500	*	*
60+	1,000	500	1,000	500	500	500
Other physical/related scientists	4,000	3,000	500	2,000	1,000	3,000
<30	1,000	1,000	S	1,000	1,000	1,000
30-39	2,000	2,000	500	1,000	500	1,000
40-49	3,000	1,000	S	1,000	S	2,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50-59	1,000	1,000	S	1,000	S	1,000
60+	1,000	500	S	S	S	500
Social/related scientists	14,000	9,000	5,000	10,000	3,000	9,000
<30	6,000	5,000	2,000	4,000	1,000	3,000
30-39	7,000	5,000	3,000	5,000	2,000	5,000
40-49	7,000	4,000	2,000	5,000	2,000	5,000
50-59	6,000	3,000	2,000	4,000	2,000	4,000
60+	3,000	2,000	2,000	2,000	1,000	2,000
Economists	3,000	3,000	1,000	2,000	1,000	2,000
<30	1,000	1,000	S	500	500	1,000
30-39	2,000	1,000	*	2,000	500	1,000
40-49	2,000	1,000	S	1,000	500	1,000
50-59	2,000	2,000	1,000	1,000	S	2,000
60+	1,000	500	S	500	S	1,000
Political/related scientists	2,000	2,000	*	2,000	S	1,000
<30	2,000	1,000	S	1,000	S	1,000
30-39	1,000	1,000	S	1,000	S	1,000
40-49	1,000	1,000	S	1,000	S	S
50-59	1,000	*	S	1,000	S	1,000
60+	500	*	S	*	S	*
Postsecondary teachers-social/related sciences	4,000	3,000	4,000	2,000	1,000	2,000
<30	2,000	1,000	2,000	1,000	S	500
30-39	2,000	1,000	2,000	1,000	S	500
40-49	2,000	1,000	2,000	1,000	1,000	1,000
50-59	2,000	1,000	2,000	1,000	500	1,000
60+	1,000	1,000	1,000	500	*	1,000
Psychologists	6,000	4,000	3,000	4,000	1,000	6,000
<30	3,000	3,000	1,000	1,000	S	1,000
30-39	4,000	2,000	2,000	2,000	500	4,000
40-49	3,000	2,000	1,000	2,000	500	3,000
50-59	3,000	1,000	1,000	2,000	1,000	3,000
60+	2,000	500	500	1,000	*	2,000
Sociologists/anthropologists	3,000	3,000	500	2,000	1,000	2,000
<30	1,000	1,000	S	500	S	S
30-39	1,000	1,000	S	1,000	S	*
40-49	2,000	1,000	*	1,000	S	1,000
50-59	500	500	S	500	S	*
60+	1,000	1,000	S	*	S	1,000
Other social/related scientists	9,000	6,000	1,000	8,000	3,000	6,000
<30	4,000	3,000	S	4,000	500	2,000
30-39	4,000	3,000	*	4,000	1,000	4,000
40-49	5,000	3,000	S	4,000	1,000	3,000
50-59	4,000	2,000	500	3,000	1,000	2,000
60+	2,000	1,000	S	2,000	S	1,000
Engineers	18,000	15,000	3,000	15,000	7,000	9,000
<30	6,000	5,000	1,000	5,000	3,000	2,000
30-39	12,000	8,000	2,000	10,000	4,000	5,000
40-49	12,000	9,000	2,000	10,000	4,000	5,000
50-59	9,000	7,000	1,000	8,000	3,000	5,000
60+	6,000	5,000	1,000	5,000	2,000	2,000
Aerospace/aeronautical/astronautical engineers	5,000	4,000	1,000	4,000	2,000	2,000
<30	1,000	1,000	S	500	1,000	500
30-39	2,000	1,000	S	1,000	1,000	1,000
40-49	3,000	2,000	S	2,000	1,000	2,000

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Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50-59	2,000	2,000	S	2,000	1,000	1,000
60+	3,000	3,000	S	3,000	500	500
Chemical engineers	3,000	3,000	500	3,000	1,000	2,000
<30	1,000	1,000	S	1,000	500	1,000
30-39	2,000	2,000	S	2,000	1,000	1,000
40-49	2,000	1,000	S	1,000	1,000	1,000
50-59	2,000	1,000	S	1,000	500	1,000
60+	1,000	1,000	S	1,000	S	500
Civil/architectural/sanitary engineers	8,000	5,000	1,000	7,000	3,000	3,000
<30	2,000	2,000	S	2,000	1,000	1,000
30-39	5,000	3,000	S	5,000	1,000	2,000
40-49	4,000	3,000	500	4,000	2,000	2,000
50-59	3,000	2,000	S	3,000	1,000	2,000
60+	2,000	2,000	S	2,000	1,000	2,000
Electrical/computer hardware engineers	8,000	7,000	1,000	6,000	4,000	3,000
<30	3,000	3,000	S	1,000	2,000	1,000
30-39	6,000	5,000	*	4,000	3,000	2,000
40-49	5,000	4,000	1,000	4,000	2,000	2,000
50-59	4,000	4,000	500	4,000	2,000	2,000
60+	2,000	1,000	S	2,000	1,000	1,000
Industrial engineers	5,000	4,000	1,000	4,000	1,000	2,000
<30	1,000	1,000	S	1,000	500	500
30-39	3,000	3,000	S	3,000	1,000	1,000
40-49	3,000	2,000	S	2,000	1,000	1,000
50-59	2,000	1,000	S	2,000	1,000	1,000
60+	1,000	1,000	S	1,000	S	1,000
Mechanical engineers	7,000	7,000	1,000	6,000	2,000	3,000
<30	2,000	2,000	S	2,000	1,000	1,000
30-39	4,000	4,000	S	3,000	1,000	2,000
40-49	4,000	3,000	500	4,000	1,000	2,000
50-59	4,000	3,000	500	3,000	1,000	1,000
60+	2,000	2,000	*	2,000	1,000	1,000
Postsecondary teachers-engineering	2,000	1,000	2,000	1,000	500	500
<30	1,000	1,000	1,000	500	S	500
30-39	1,000	1,000	1,000	500	*	S
40-49	1,000	1,000	1,000	500	500	*
50-59	1,000	1,000	1,000	500	*	*
60+	1,000	500	1,000	500	500	*
Other engineers	12,000	9,000	2,000	11,000	4,000	6,000
<30	4,000	4,000	S	4,000	1,000	1,000
30-39	7,000	4,000	1,000	7,000	3,000	4,000
40-49	8,000	6,000	1,000	7,000	2,000	3,000
50-59	5,000	3,000	500	4,000	1,000	3,000
60+	3,000	2,000	500	2,000	1,000	1,000
S&E-related occupations	48,000	26,000	31,000	36,000	18,000	31,000
<30	18,000	10,000	11,000	10,000	6,000	15,000
30-39	27,000	14,000	17,000	20,000	11,000	22,000
40-49	27,000	12,000	17,000	21,000	10,000	20,000
50-59	24,000	10,000	15,000	17,000	7,000	15,000
60+	13,000	6,000	8,000	9,000	4,000	10,000
Health-related occupations	32,000	19,000	23,000	26,000	11,000	29,000
<30	16,000	8,000	9,000	8,000	3,000	15,000
30-39	21,000	10,000	12,000	15,000	6,000	20,000
40-49	21,000	9,000	13,000	17,000	6,000	19,000

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Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50-59	17,000	8,000	10,000	13,000	5,000	14,000
60+	10,000	4,000	5,000	7,000	2,000	9,000
S&E managers	14,000	5,000	2,000	14,000	7,000	6,000
<30	2,000	1,000	S	2,000	1,000	S
30-39	7,000	4,000	1,000	6,000	3,000	3,000
40-49	9,000	3,000	500	9,000	4,000	4,000
50-59	7,000	2,000	S	7,000	2,000	3,000
60+	10,000	4,000	S	7,000	2,000	9,000
S&E precollege teachers	21,000	8,000	20,000	13,000	8,000	7,000
<30	6,000	3,000	6,000	4,000	2,000	1,000
30-39	12,000	4,000	12,000	8,000	3,000	3,000
40-49	11,000	4,000	10,000	6,000	3,000	4,000
50-59	10,000	4,000	10,000	6,000	4,000	3,000
60+	6,000	3,000	6,000	2,000	2,000	3,000
S&E technicians/technologists	15,000	10,000	3,000	10,000	10,000	7,000
<30	6,000	4,000	1,000	3,000	4,000	2,000
30-39	8,000	6,000	1,000	5,000	6,000	4,000
40-49	9,000	5,000	1,000	6,000	6,000	4,000
50-59	6,000	4,000	1,000	4,000	3,000	4,000
60+	3,000	2,000	S	2,000	2,000	1,000
Other S&E-related occupations	10,000	9,000	S	9,000	4,000	6,000
<30	3,000	3,000	S	2,000	2,000	1,000
30-39	6,000	5,000	S	5,000	2,000	3,000
40-49	5,000	4,000	S	5,000	2,000	3,000
50-59	5,000	4,000	S	4,000	1,000	3,000
60+	4,000	2,000	S	3,000	1,000	3,000
Non-S&E occupations	70,000	34,000	25,000	65,000	25,000	44,000
<30	21,000	10,000	9,000	19,000	7,000	13,000
30-39	38,000	15,000	14,000	36,000	13,000	22,000
40-49	38,000	17,000	17,000	36,000	14,000	21,000
50-59	39,000	15,000	15,000	33,000	10,000	25,000
60+	21,000	8,000	7,000	19,000	7,000	14,000
Art/humanities/related occupations	17,000	10,000	3,000	13,000	7,000	9,000
<30	4,000	2,000	2,000	4,000	2,000	2,000
30-39	10,000	6,000	*	8,000	5,000	5,000
40-49	8,000	5,000	3,000	6,000	2,000	5,000
50-59	7,000	5,000	2,000	5,000	3,000	6,000
60+	4,000	2,000	1,000	3,000	2,000	3,000
Management-related occupations	34,000	12,000	6,000	33,000	11,000	15,000
<30	9,000	4,000	1,000	9,000	3,000	4,000
30-39	18,000	6,000	3,000	17,000	4,000	8,000
40-49	17,000	7,000	4,000	16,000	7,000	9,000
50-59	16,000	6,000	4,000	15,000	5,000	9,000
60+	8,000	3,000	2,000	7,000	3,000	5,000
Non-S&E managers	26,000	9,000	3,000	26,000	6,000	9,000
<30	3,000	1,000	S	3,000	S	1,000
30-39	13,000	3,000	1,000	13,000	3,000	4,000
40-49	15,000	7,000	2,000	15,000	3,000	5,000
50-59	13,000	4,000	2,000	13,000	3,000	6,000
60+	7,000	4,000	1,000	7,000	2,000	2,000
Non-S&E postsecondary teachers	7,000	4,000	7,000	4,000	2,000	3,000
<30	3,000	3,000	3,000	1,000	1,000	1,000
30-39	3,000	2,000	2,000	1,000	1,000	1,000
40-49	3,000	2,000	3,000	2,000	1,000	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50-59	4,000	2,000	4,000	2,000	2,000	1,000
60+	2,000	1,000	2,000	1,000	500	1,000
Non-S&E precollege/other teachers	21,000	8,000	21,000	13,000	5,000	8,000
<30	7,000	4,000	7,000	4,000	S	2,000
30-39	12,000	4,000	12,000	7,000	2,000	4,000
40-49	12,000	4,000	12,000	7,000	3,000	4,000
50-59	12,000	4,000	11,000	6,000	2,000	4,000
60+	5,000	1,000	4,000	3,000	1,000	2,000
Sales/marketing occupations	32,000	13,000	5,000	31,000	9,000	14,000
<30	11,000	3,000	1,000	10,000	4,000	4,000
30-39	20,000	8,000	3,000	20,000	4,000	6,000
40-49	17,000	6,000	2,000	16,000	4,000	7,000
50-59	15,000	5,000	2,000	15,000	4,000	8,000
60+	10,000	3,000	2,000	10,000	4,000	5,000
Social services/related occupations	17,000	5,000	10,000	13,000	5,000	15,000
<30	7,000	3,000	3,000	5,000	2,000	6,000
30-39	10,000	3,000	6,000	7,000	4,000	9,000
40-49	9,000	3,000	5,000	5,000	2,000	8,000
50-59	8,000	2,000	4,000	7,000	2,000	7,000
60+	5,000	2,000	3,000	3,000	S	4,000
Other non-S&E occupations	41,000	16,000	12,000	35,000	15,000	30,000
<30	15,000	6,000	3,000	12,000	5,000	10,000
30-39	22,000	8,000	6,000	19,000	8,000	16,000
40-49	21,000	9,000	7,000	18,000	9,000	16,000
50-59	23,000	8,000	6,000	19,000	6,000	17,000
60+	14,000	4,000	3,000	11,000	4,000	10,000
Bachelor's degrees, all occupations	69,000	39,000	29,000	63,000	34,000	47,000
<30	27,000	15,000	12,000	22,000	11,000	15,000
30-39	40,000	20,000	18,000	34,000	20,000	26,000
40-49	41,000	18,000	16,000	37,000	20,000	26,000
50-59	36,000	17,000	15,000	32,000	14,000	22,000
60+	19,000	8,000	7,000	15,000	7,000	12,000
S&E occupations	32,000	23,000	8,000	25,000	22,000	13,000
<30	13,000	11,000	4,000	9,000	8,000	5,000
30-39	19,000	13,000	3,000	14,000	13,000	8,000
40-49	19,000	12,000	4,000	15,000	14,000	8,000
50-59	12,000	8,000	2,000	10,000	7,000	7,000
60+	6,000	4,000	1,000	5,000	3,000	3,000
Scientists	27,000	18,000	7,000	21,000	20,000	11,000
<30	13,000	9,000	4,000	8,000	8,000	4,000
30-39	16,000	11,000	3,000	12,000	12,000	7,000
40-49	16,000	9,000	4,000	12,000	13,000	7,000
50-59	9,000	6,000	2,000	8,000	6,000	5,000
60+	5,000	3,000	1,000	3,000	2,000	2,000
Biological/agricultural/other life scientists	9,000	6,000	2,000	6,000	2,000	5,000
<30	5,000	5,000	1,000	3,000	1,000	2,000
30-39	4,000	3,000	1,000	2,000	1,000	3,000
40-49	5,000	4,000	1,000	4,000	1,000	4,000
50-59	4,000	2,000	S	3,000	1,000	2,000
60+	1,000	1,000	S	1,000	S	1,000
Agricultural/food scientists	3,000	3,000	1,000	2,000	500	2,000
<30	2,000	2,000	S	1,000	S	500
30-39	1,000	1,000	S	1,000	S	S
40-49	2,000	1,000	S	1,000	S	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50-59	2,000	1,000	S	1,000	S	1,000
60+	1,000	S	S	1,000	S	S
Biological/medical scientists	7,000	6,000	1,000	5,000	1,000	5,000
<30	4,000	4,000	1,000	2,000	1,000	2,000
30-39	4,000	3,000	S	2,000	1,000	3,000
40-49	4,000	2,000	S	4,000	1,000	3,000
50-59	2,000	2,000	S	2,000	500	1,000
60+	1,000	500	S	S	S	500
Environmental life scientists	4,000	2,000	S	3,000	2,000	2,000
<30	1,000	500	S	1,000	S	500
30-39	1,000	500	S	500	S	1,000
40-49	2,000	2,000	S	2,000	1,000	1,000
50-59	2,000	500	S	2,000	1,000	1,000
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	2,000	1,000	1,000	1,000	S	S
<30	1,000	1,000	1,000	S	S	S
30-39	1,000	S	S	S	S	S
40-49	1,000	S	S	S	S	S
50-59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Computer/mathematical scientists	24,000	15,000	6,000	19,000	20,000	8,000
<30	10,000	6,000	4,000	6,000	8,000	3,000
30-39	15,000	9,000	3,000	11,000	12,000	5,000
40-49	13,000	8,000	3,000	10,000	12,000	4,000
50-59	7,000	5,000	2,000	6,000	6,000	3,000
60+	4,000	2,000	1,000	2,000	2,000	1,000
Computer/information scientists	23,000	14,000	6,000	19,000	19,000	8,000
<30	9,000	6,000	4,000	6,000	7,000	3,000
30-39	14,000	9,000	2,000	11,000	12,000	5,000
40-49	12,000	8,000	3,000	10,000	11,000	4,000
50-59	7,000	5,000	1,000	6,000	6,000	3,000
60+	3,000	2,000	1,000	2,000	2,000	1,000
Mathematical scientists	5,000	3,000	500	3,000	3,000	3,000
<30	2,000	1,000	S	1,000	2,000	S
30-39	2,000	2,000	S	2,000	1,000	S
40-49	3,000	1,000	S	1,000	3,000	3,000
50-59	2,000	2,000	S	2,000	500	500
60+	1,000	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	2,000	1,000	2,000	500	2,000	500
<30	1,000	1,000	1,000	500	500	500
30-39	1,000	500	1,000	S	1,000	S
40-49	2,000	1,000	2,000	S	2,000	S
50-59	1,000	500	1,000	S	1,000	S
60+	1,000	S	1,000	S	S	S
Physical/related scientists	8,000	6,000	2,000	5,000	2,000	5,000
<30	4,000	4,000	1,000	2,000	1,000	2,000
30-39	3,000	2,000	1,000	2,000	1,000	2,000
40-49	4,000	3,000	S	3,000	1,000	4,000
50-59	3,000	2,000	500	2,000	1,000	1,000
60+	1,000	1,000	S	500	500	500
Chemists, except biochemists	6,000	5,000	500	4,000	1,000	3,000
<30	4,000	4,000	S	2,000	1,000	1,000
30-39	2,000	1,000	S	1,000	1,000	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40-49	3,000	2,000	S	2,000	1,000	2,000
50-59	2,000	2,000	S	2,000	S	1,000
60+	500	500	S	500	S	500
Earth/atmospheric/ocean scientists	3,000	3,000	500	2,000	2,000	2,000
<30	1,000	1,000	S	500	500	500
30-39	1,000	1,000	S	1,000	500	1,000
40-49	2,000	2,000	S	1,000	1,000	1,000
50-59	2,000	1,000	S	1,000	1,000	1,000
60+	1,000	500	S	S	S	S
Physicists/astronomers	1,000	1,000	S	500	500	500
<30	500	500	S	S	500	*
30-39	500	500	S	S	S	S
40-49	500	*	S	S	S	S
50-59	500	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-physical/related sciences	2,000	1,000	2,000	500	S	1,000
<30	1,000	1,000	1,000	500	S	1,000
30-39	1,000	1,000	1,000	S	S	S
40-49	S	S	S	S	S	S
50-59	500	S	500	S	S	S
60+	S	S	S	S	S	S
Other physical/related scientists	4,000	2,000	S	2,000	500	3,000
<30	1,000	1,000	S	1,000	S	1,000
30-39	2,000	2,000	S	1,000	S	1,000
40-49	3,000	1,000	S	1,000	S	2,000
50-59	1,000	1,000	S	1,000	S	1,000
60+	S	S	S	S	S	S
Social/related scientists	8,000	6,000	3,000	6,000	3,000	5,000
<30	5,000	4,000	1,000	3,000	1,000	2,000
30-39	4,000	3,000	1,000	4,000	S	3,000
40-49	3,000	2,000	1,000	2,000	1,000	3,000
50-59	4,000	3,000	1,000	2,000	1,000	3,000
60+	2,000	2,000	S	1,000	S	1,000
Economists	2,000	2,000	S	1,000	500	2,000
<30	1,000	500	S	500	500	500
30-39	500	S	S	S	S	S
40-49	500	S	S	S	S	S
50-59	2,000	S	S	1,000	S	S
60+	S	S	S	S	S	S
Political/related scientists	2,000	2,000	S	1,000	S	1,000
<30	2,000	1,000	S	1,000	S	500
30-39	1,000	S	S	S	S	S
40-49	S	S	S	S	S	S
50-59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	1,000	2,000	1,000	S	1,000
<30	1,000	1,000	1,000	S	S	S
30-39	1,000	S	1,000	S	S	S
40-49	S	S	S	S	S	S
50-59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Psychologists	3,000	2,000	1,000	1,000	S	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	2,000	2,000	1,000	1,000	S	500
30-39	1,000	S	S	S	S	1,000
40-49	1,000	S	S	S	S	1,000
50-59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Sociologists/anthropologists	2,000	2,000	S	1,000	S	1,000
<30	1,000	1,000	S	S	S	S
30-39	500	500	S	S	S	S
40-49	1,000	S	S	1,000	S	S
50-59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Other social/related scientists	6,000	4,000	S	6,000	2,000	5,000
<30	3,000	3,000	S	3,000	S	2,000
30-39	4,000	3,000	S	4,000	S	3,000
40-49	3,000	2,000	S	2,000	S	2,000
50-59	3,000	2,000	S	2,000	1,000	2,000
60+	1,000	S	S	1,000	S	S
Engineers	17,000	13,000	2,000	14,000	6,000	8,000
<30	5,000	5,000	1,000	4,000	2,000	2,000
30-39	11,000	8,000	1,000	9,000	4,000	5,000
40-49	10,000	7,000	1,000	8,000	4,000	4,000
50-59	7,000	5,000	1,000	5,000	2,000	4,000
60+	4,000	3,000	500	4,000	1,000	2,000
Aerospace/aeronautical/astronautical engineers	4,000	3,000	S	3,000	2,000	1,000
<30	1,000	1,000	S	500	500	500
30-39	1,000	1,000	S	1,000	500	1,000
40-49	3,000	2,000	S	2,000	1,000	1,000
50-59	2,000	1,000	S	1,000	1,000	1,000
60+	1,000	1,000	S	1,000	S	S
Chemical engineers	3,000	2,000	S	2,000	1,000	2,000
<30	1,000	1,000	S	1,000	500	1,000
30-39	2,000	2,000	S	2,000	1,000	500
40-49	1,000	1,000	S	1,000	1,000	1,000
50-59	1,000	1,000	S	1,000	500	500
60+	500	500	S	500	S	S
Civil/architectural/sanitary engineers	7,000	4,000	1,000	6,000	2,000	3,000
<30	2,000	1,000	S	1,000	1,000	1,000
30-39	5,000	3,000	S	4,000	1,000	1,000
40-49	4,000	3,000	S	3,000	2,000	1,000
50-59	3,000	1,000	S	2,000	1,000	2,000
60+	2,000	1,000	S	2,000	500	1,000
Electrical/computer hardware engineers	7,000	6,000	1,000	5,000	4,000	3,000
<30	2,000	2,000	S	1,000	1,000	1,000
30-39	5,000	5,000	S	3,000	3,000	1,000
40-49	4,000	3,000	S	3,000	2,000	2,000
50-59	3,000	3,000	S	2,000	1,000	2,000
60+	2,000	1,000	S	1,000	500	500
Industrial engineers	4,000	3,000	1,000	3,000	1,000	2,000
<30	1,000	1,000	S	1,000	500	500
30-39	2,000	2,000	S	2,000	1,000	1,000
40-49	2,000	1,000	S	2,000	500	1,000
50-59	2,000	1,000	S	2,000	1,000	1,000
60+	1,000	500	S	1,000	S	1,000
Mechanical engineers	6,000	6,000	500	4,000	2,000	3,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	2,000	2,000	S	1,000	1,000	1,000
30-39	4,000	4,000	S	3,000	1,000	2,000
40-49	3,000	3,000	S	3,000	1,000	1,000
50-59	3,000	2,000	S	2,000	1,000	1,000
60+	2,000	2,000	S	2,000	1,000	1,000
Postsecondary teachers-engineering	1,000	1,000	1,000	500	S	500
<30	1,000	1,000	500	S	S	500
30-39	S	S	S	S	S	S
40-49	500	S	500	S	S	S
50-59	500	S	S	S	S	S
60+	S	S	S	S	S	S
Other engineers	11,000	8,000	2,000	10,000	4,000	6,000
<30	4,000	4,000	S	4,000	1,000	1,000
30-39	6,000	4,000	1,000	6,000	3,000	4,000
40-49	6,000	5,000	1,000	6,000	2,000	2,000
50-59	4,000	3,000	500	3,000	1,000	3,000
60+	3,000	2,000	S	2,000	500	1,000
S&E-related occupations	39,000	21,000	23,000	30,000	16,000	29,000
<30	15,000	8,000	9,000	9,000	6,000	12,000
30-39	23,000	11,000	13,000	16,000	9,000	18,000
40-49	22,000	9,000	12,000	17,000	8,000	17,000
50-59	18,000	8,000	10,000	13,000	6,000	11,000
60+	9,000	5,000	6,000	7,000	4,000	7,000
Health-related occupations	31,000	15,000	17,000	22,000	10,000	26,000
<30	13,000	6,000	7,000	7,000	3,000	12,000
30-39	19,000	7,000	11,000	12,000	5,000	17,000
40-49	18,000	7,000	9,000	14,000	4,000	16,000
50-59	12,000	6,000	7,000	10,000	4,000	11,000
60+	7,000	4,000	4,000	5,000	2,000	6,000
S&E managers	12,000	4,000	2,000	12,000	5,000	5,000
<30	2,000	1,000	S	2,000	1,000	S
30-39	6,000	3,000	S	6,000	3,000	3,000
40-49	8,000	2,000	S	8,000	4,000	4,000
50-59	5,000	2,000	S	5,000	1,000	2,000
60+	7,000	4,000	S	5,000	S	6,000
S&E precollege teachers	14,000	6,000	14,000	9,000	5,000	6,000
<30	5,000	3,000	5,000	3,000	2,000	1,000
30-39	9,000	3,000	9,000	6,000	2,000	3,000
40-49	8,000	4,000	8,000	4,000	2,000	4,000
50-59	7,000	3,000	7,000	4,000	2,000	2,000
60+	4,000	2,000	4,000	1,000	2,000	2,000
S&E technicians/technologists	14,000	9,000	3,000	9,000	10,000	7,000
<30	5,000	4,000	S	3,000	4,000	2,000
30-39	7,000	5,000	1,000	4,000	6,000	4,000
40-49	8,000	4,000	1,000	5,000	5,000	4,000
50-59	6,000	4,000	1,000	4,000	3,000	3,000
60+	2,000	2,000	S	1,000	1,000	1,000
Other S&E-related occupations	9,000	7,000	S	7,000	3,000	5,000
<30	3,000	2,000	S	1,000	2,000	1,000
30-39	5,000	4,000	S	4,000	2,000	3,000
40-49	4,000	3,000	S	3,000	1,000	3,000
50-59	5,000	4,000	S	4,000	1,000	2,000
60+	2,000	2,000	S	2,000	S	1,000
Non-S&E occupations	58,000	26,000	20,000	53,000	22,000	34,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	20,000	8,000	7,000	18,000	7,000	10,000
30-39	33,000	11,000	12,000	31,000	11,000	18,000
40-49	32,000	13,000	11,000	29,000	13,000	16,000
50-59	32,000	11,000	11,000	27,000	9,000	19,000
60+	15,000	6,000	4,000	13,000	5,000	9,000
Art/humanities/related occupations	14,000	7,000	3,000	11,000	7,000	7,000
<30	4,000	2,000	2,000	4,000	2,000	2,000
30-39	8,000	5,000	S	7,000	5,000	4,000
40-49	6,000	4,000	S	5,000	2,000	4,000
50-59	6,000	4,000	S	5,000	3,000	4,000
60+	3,000	S	S	2,000	S	2,000
Management-related occupations	28,000	9,000	5,000	27,000	8,000	12,000
<30	9,000	4,000	S	8,000	2,000	4,000
30-39	16,000	4,000	2,000	15,000	4,000	7,000
40-49	14,000	4,000	4,000	14,000	5,000	7,000
50-59	13,000	5,000	3,000	12,000	4,000	7,000
60+	5,000	3,000	1,000	5,000	2,000	3,000
Non-S&E managers	21,000	7,000	2,000	21,000	5,000	5,000
<30	2,000	500	S	2,000	S	500
30-39	11,000	3,000	S	11,000	3,000	3,000
40-49	12,000	5,000	2,000	12,000	3,000	3,000
50-59	9,000	3,000	2,000	9,000	2,000	4,000
60+	6,000	3,000	S	5,000	1,000	1,000
Non-S&E postsecondary teachers	3,000	2,000	3,000	2,000	1,000	1,000
<30	2,000	1,000	1,000	1,000	1,000	500
30-39	1,000	1,000	1,000	1,000	S	S
40-49	2,000	1,000	1,000	1,000	S	S
50-59	2,000	1,000	2,000	1,000	S	S
60+	1,000	S	500	S	S	S
Non-S&E precollege/other teachers	17,000	6,000	17,000	9,000	4,000	6,000
<30	5,000	2,000	5,000	3,000	S	1,000
30-39	10,000	3,000	10,000	6,000	S	4,000
40-49	8,000	4,000	8,000	4,000	3,000	4,000
50-59	8,000	2,000	8,000	4,000	2,000	3,000
60+	3,000	S	2,000	3,000	S	S
Sales/marketing occupations	28,000	9,000	4,000	27,000	8,000	12,000
<30	10,000	3,000	1,000	10,000	4,000	4,000
30-39	18,000	5,000	3,000	18,000	4,000	6,000
40-49	14,000	4,000	2,000	14,000	3,000	6,000
50-59	13,000	5,000	2,000	12,000	3,000	6,000
60+	8,000	2,000	1,000	7,000	4,000	4,000
Social services/related occupations	12,000	4,000	6,000	8,000	4,000	11,000
<30	6,000	2,000	2,000	4,000	2,000	5,000
30-39	7,000	3,000	4,000	4,000	3,000	6,000
40-49	5,000	1,000	2,000	4,000	2,000	4,000
50-59	4,000	S	2,000	4,000	1,000	4,000
60+	3,000	S	2,000	1,000	S	2,000
Other non-S&E occupations	36,000	13,000	9,000	31,000	14,000	26,000
<30	13,000	4,000	3,000	12,000	4,000	8,000
30-39	20,000	6,000	5,000	17,000	8,000	13,000
40-49	19,000	8,000	6,000	16,000	8,000	12,000
50-59	19,000	7,000	5,000	16,000	5,000	13,000
60+	10,000	2,000	2,000	7,000	3,000	7,000
Master's degrees, all occupations	47,000	24,000	23,000	39,000	20,000	28,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	13,000	9,000	8,000	9,000	4,000	9,000
30-39	24,000	12,000	13,000	19,000	10,000	14,000
40-49	27,000	14,000	13,000	22,000	10,000	16,000
50-59	24,000	12,000	13,000	20,000	8,000	14,000
60+	16,000	7,000	7,000	14,000	5,000	10,000
S&E occupations	20,000	14,000	6,000	16,000	12,000	9,000
<30	7,000	6,000	2,000	4,000	4,000	3,000
30-39	10,000	7,000	3,000	8,000	7,000	6,000
40-49	13,000	9,000	2,000	10,000	6,000	6,000
50-59	9,000	6,000	4,000	8,000	5,000	4,000
60+	6,000	4,000	2,000	4,000	2,000	2,000
Scientists	18,000	12,000	6,000	13,000	11,000	8,000
<30	7,000	5,000	2,000	4,000	4,000	2,000
30-39	9,000	6,000	3,000	7,000	6,000	5,000
40-49	10,000	7,000	2,000	7,000	6,000	5,000
50-59	8,000	4,000	4,000	6,000	5,000	4,000
60+	4,000	3,000	2,000	3,000	2,000	2,000
Biological/agricultural/other life scientists	5,000	4,000	2,000	4,000	1,000	3,000
<30	2,000	2,000	1,000	1,000	1,000	500
30-39	3,000	2,000	1,000	2,000	1,000	2,000
40-49	3,000	3,000	1,000	2,000	500	1,000
50-59	2,000	2,000	1,000	2,000	500	1,000
60+	1,000	500	500	1,000	S	1,000
Agricultural/food scientists	2,000	2,000	S	2,000	500	1,000
<30	500	500	S	500	S	S
30-39	1,000	1,000	S	S	S	S
40-49	2,000	2,000	S	1,000	S	S
50-59	1,000	1,000	S	1,000	S	1,000
60+	S	S	S	S	S	S
Biological/medical scientists	4,000	3,000	1,000	3,000	1,000	2,000
<30	1,000	1,000	S	500	1,000	500
30-39	2,000	2,000	S	2,000	500	2,000
40-49	2,000	2,000	S	2,000	500	1,000
50-59	1,000	1,000	S	1,000	S	1,000
60+	1,000	500	S	S	S	S
Environmental life scientists	2,000	1,000	S	2,000	1,000	1,000
<30	500	*	S	*	S	S
30-39	1,000	500	S	1,000	S	S
40-49	500	500	S	500	S	S
50-59	1,000	1,000	S	1,000	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-life/related sciences	2,000	1,000	2,000	1,000	S	500
<30	1,000	500	1,000	S	S	S
30-39	1,000	500	1,000	*	S	500
40-49	1,000	500	1,000	1,000	S	S
50-59	1,000	S	1,000	500	S	S
60+	500	S	500	S	S	S
Computer/mathematical scientists	14,000	9,000	4,000	11,000	11,000	4,000
<30	5,000	3,000	1,000	4,000	4,000	1,000
30-39	7,000	5,000	2,000	6,000	6,000	2,000
40-49	7,000	5,000	1,000	6,000	5,000	2,000
50-59	6,000	3,000	3,000	5,000	5,000	2,000
60+	3,000	2,000	1,000	2,000	2,000	1,000
Computer/information scientists	13,000	9,000	2,000	11,000	10,000	3,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	5,000	3,000	S	4,000	3,000	1,000
30-39	7,000	5,000	500	5,000	6,000	2,000
40-49	7,000	5,000	1,000	5,000	5,000	2,000
50-59	5,000	3,000	2,000	4,000	5,000	2,000
60+	3,000	2,000	1,000	2,000	2,000	S
Mathematical scientists	3,000	2,000	1,000	2,000	2,000	1,000
<30	1,000	500	S	500	500	S
30-39	2,000	2,000	S	1,000	1,000	1,000
40-49	2,000	1,000	S	1,000	500	1,000
50-59	1,000	1,000	S	1,000	1,000	S
60+	1,000	1,000	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	3,000	1,000	3,000	1,000	1,000	2,000
<30	500	500	500	*	500	S
30-39	2,000	1,000	2,000	500	500	S
40-49	1,000	500	1,000	500	500	S
50-59	2,000	1,000	2,000	1,000	1,000	S
60+	1,000	500	1,000	500	S	500
Physical/related scientists	5,000	4,000	2,000	3,000	2,000	2,000
<30	1,000	1,000	1,000	500	1,000	500
30-39	3,000	1,000	1,000	2,000	1,000	1,000
40-49	3,000	3,000	1,000	2,000	1,000	1,000
50-59	2,000	1,000	1,000	1,000	1,000	1,000
60+	2,000	1,000	1,000	1,000	S	1,000
Chemists, except biochemists	3,000	2,000	S	2,000	500	1,000
<30	500	500	S	*	S	*
30-39	2,000	1,000	S	1,000	S	1,000
40-49	1,000	1,000	S	1,000	S	500
50-59	1,000	1,000	S	1,000	S	1,000
60+	1,000	1,000	S	S	S	1,000
Earth/atmospheric/ocean scientists	3,000	3,000	S	1,000	2,000	1,000
<30	500	500	S	*	*	*
30-39	1,000	1,000	S	1,000	1,000	1,000
40-49	3,000	3,000	S	1,000	1,000	1,000
50-59	1,000	1,000	S	1,000	500	500
60+	1,000	1,000	S	S	S	1,000
Physicists/astronomers	1,000	1,000	*	1,000	1,000	1,000
<30	500	500	S	S	*	S
30-39	1,000	500	S	1,000	500	*
40-49	500	500	S	S	S	S
50-59	1,000	1,000	S	S	S	S
60+	500	S	S	S	S	S
Postsecondary teachers-physical/related sciences	2,000	1,000	2,000	1,000	500	500
<30	1,000	1,000	1,000	*	S	S
30-39	1,000	500	1,000	1,000	S	S
40-49	1,000	S	1,000	S	S	S
50-59	1,000	S	1,000	500	S	S
60+	1,000	S	1,000	S	S	S
Other physical/related scientists	1,000	1,000	S	1,000	1,000	1,000
<30	1,000	1,000	S	S	S	S
30-39	1,000	1,000	S	1,000	S	S
40-49	1,000	500	S	1,000	S	1,000
50-59	500	500	S	S	S	S

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
60+	1,000	S	S	S	S	S
Social/related scientists	10,000	6,000	4,000	7,000	2,000	7,000
<30	4,000	3,000	2,000	2,000	500	2,000
30-39	5,000	3,000	2,000	4,000	1,000	4,000
40-49	6,000	3,000	1,000	4,000	1,000	4,000
50-59	4,000	2,000	2,000	3,000	1,000	3,000
60+	2,000	1,000	1,000	1,000	S	1,000
Economists	3,000	2,000	S	2,000	500	1,000
<30	1,000	1,000	S	500	S	S
30-39	2,000	1,000	S	2,000	500	1,000
40-49	2,000	1,000	S	1,000	S	S
50-59	1,000	1,000	S	1,000	S	S
60+	S	S	S	S	S	S
Political/related scientists	1,000	1,000	S	1,000	S	1,000
<30	500	500	S	S	S	S
30-39	1,000	500	S	S	S	S
40-49	S	S	S	S	S	S
50-59	S	S	S	S	S	S
60+	S	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	2,000	2,000	1,000	1,000	1,000
<30	1,000	1,000	1,000	500	S	S
30-39	1,000	1,000	1,000	*	S	500
40-49	1,000	1,000	1,000	S	S	1,000
50-59	1,000	1,000	1,000	1,000	S	500
60+	1,000	1,000	1,000	500	S	500
Psychologists	6,000	3,000	3,000	4,000	1,000	5,000
<30	2,000	2,000	1,000	1,000	S	1,000
30-39	4,000	2,000	2,000	2,000	500	4,000
40-49	3,000	1,000	1,000	2,000	S	3,000
50-59	3,000	1,000	1,000	2,000	S	2,000
60+	1,000	500	S	1,000	S	1,000
Sociologists/anthropologists	2,000	1,000	S	1,000	S	1,000
<30	500	500	S	S	S	S
30-39	1,000	1,000	S	1,000	S	S
40-49	1,000	1,000	S	500	S	1,000
50-59	500	500	S	500	S	S
60+	S	S	S	S	S	S
Other social/related scientists	6,000	4,000	S	5,000	1,000	3,000
<30	2,000	2,000	S	2,000	S	1,000
30-39	2,000	1,000	S	2,000	S	1,000
40-49	4,000	2,000	S	3,000	S	3,000
50-59	2,000	1,000	S	2,000	S	1,000
60+	1,000	1,000	S	1,000	S	S
Engineers	9,000	8,000	1,000	8,000	3,000	4,000
<30	3,000	2,000	500	1,000	1,000	1,000
30-39	5,000	4,000	1,000	3,000	2,000	2,000
40-49	7,000	5,000	1,000	5,000	2,000	3,000
50-59	5,000	4,000	1,000	5,000	2,000	2,000
60+	4,000	3,000	1,000	3,000	1,000	1,000
Aerospace/aeronautical/astronautical engineers	4,000	3,000	S	3,000	1,000	2,000
<30	1,000	1,000	S	*	500	S
30-39	1,000	1,000	S	1,000	500	500
40-49	2,000	1,000	S	1,000	1,000	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50-59	1,000	1,000	S	1,000	500	S
60+	2,000	2,000	S	2,000	S	S
Chemical engineers	2,000	2,000	S	1,000	1,000	1,000
<30	1,000	1,000	S	500	*	500
30-39	1,000	1,000	S	1,000	500	500
40-49	1,000	1,000	S	1,000	S	1,000
50-59	1,000	1,000	S	1,000	500	1,000
60+	1,000	500	S	S	S	S
Civil/architectural/sanitary engineers	3,000	3,000	S	3,000	1,000	2,000
<30	1,000	1,000	S	1,000	500	1,000
30-39	2,000	2,000	S	2,000	1,000	1,000
40-49	2,000	1,000	S	2,000	500	1,000
50-59	2,000	1,000	S	1,000	500	1,000
60+	1,000	1,000	S	1,000	500	1,000
Electrical/computer hardware engineers	5,000	4,000	500	4,000	2,000	2,000
<30	1,000	1,000	S	1,000	1,000	500
30-39	2,000	2,000	S	2,000	1,000	1,000
40-49	3,000	2,000	S	2,000	1,000	1,000
50-59	3,000	3,000	S	3,000	1,000	1,000
60+	1,000	1,000	S	1,000	500	500
Industrial engineers	3,000	2,000	S	2,000	1,000	1,000
<30	500	500	S	500	500	500
30-39	2,000	2,000	S	2,000	S	500
40-49	1,000	1,000	S	1,000	S	500
50-59	1,000	1,000	S	1,000	S	500
60+	1,000	1,000	S	S	S	S
Mechanical engineers	4,000	4,000	500	3,000	1,000	1,000
<30	1,000	1,000	S	1,000	500	500
30-39	2,000	2,000	S	1,000	1,000	500
40-49	2,000	2,000	S	2,000	1,000	1,000
50-59	3,000	3,000	S	3,000	500	1,000
60+	1,000	1,000	S	1,000	S	500
Postsecondary teachers-engineering	1,000	1,000	1,000	500	500	S
<30	500	500	500	S	S	S
30-39	1,000	1,000	1,000	S	S	S
40-49	500	500	500	S	S	S
50-59	500	S	500	S	S	S
60+	1,000	S	1,000	S	S	S
Other engineers	6,000	5,000	500	5,000	1,000	3,000
<30	1,000	1,000	S	500	500	500
30-39	2,000	2,000	S	2,000	1,000	1,000
40-49	4,000	4,000	S	4,000	1,000	2,000
50-59	3,000	2,000	S	3,000	1,000	1,000
60+	2,000	1,000	S	1,000	1,000	500
S&E-related occupations	23,000	12,000	16,000	17,000	8,000	16,000
<30	8,000	4,000	5,000	4,000	2,000	6,000
30-39	11,000	7,000	8,000	8,000	5,000	7,000
40-49	14,000	6,000	9,000	10,000	5,000	11,000
50-59	12,000	6,000	9,000	8,000	4,000	8,000
60+	7,000	3,000	5,000	5,000	2,000	4,000
Health-related occupations	16,000	7,000	11,000	11,000	5,000	15,000
<30	6,000	3,000	3,000	3,000	1,000	6,000
30-39	8,000	4,000	5,000	5,000	2,000	7,000
40-49	10,000	4,000	6,000	7,000	3,000	10,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50-59	8,000	3,000	5,000	7,000	2,000	7,000
60+	4,000	1,000	2,000	3,000	1,000	3,000
S&E managers	7,000	3,000	S	7,000	3,000	3,000
<30	500	500	S	500	S	S
30-39	3,000	2,000	S	3,000	2,000	1,000
40-49	4,000	1,000	S	4,000	2,000	2,000
50-59	4,000	2,000	S	4,000	2,000	2,000
60+	4,000	S	S	3,000	S	3,000
S&E precollege teachers	12,000	5,000	12,000	9,000	5,000	3,000
<30	5,000	2,000	5,000	3,000	1,000	1,000
30-39	7,000	3,000	7,000	5,000	2,000	1,000
40-49	7,000	2,000	7,000	4,000	3,000	2,000
50-59	7,000	2,000	7,000	4,000	3,000	2,000
60+	4,000	2,000	4,000	2,000	1,000	1,000
S&E technicians/technologists	6,000	4,000	S	4,000	5,000	2,000
<30	2,000	1,000	S	1,000	2,000	1,000
30-39	3,000	3,000	S	2,000	3,000	1,000
40-49	4,000	2,000	S	3,000	2,000	2,000
50-59	2,000	2,000	S	1,000	2,000	1,000
60+	1,000	1,000	S	1,000	1,000	S
Other S&E-related occupations	5,000	4,000	S	5,000	2,000	4,000
<30	2,000	1,000	S	1,000	S	S
30-39	2,000	2,000	S	2,000	1,000	1,000
40-49	3,000	3,000	S	3,000	S	2,000
50-59	2,000	2,000	S	2,000	S	1,000
60+	3,000	1,000	S	2,000	S	3,000
Non-S&E occupations	38,000	18,000	17,000	34,000	12,000	22,000
<30	9,000	5,000	6,000	7,000	1,000	5,000
30-39	19,000	9,000	9,000	17,000	5,000	11,000
40-49	20,000	9,000	10,000	17,000	5,000	11,000
50-59	19,000	8,000	9,000	17,000	5,000	11,000
60+	13,000	5,000	5,000	11,000	4,000	8,000
Art/humanities/related occupations	8,000	5,000	1,000	7,000	2,000	6,000
<30	1,000	S	S	500	S	1,000
30-39	5,000	3,000	S	5,000	2,000	3,000
40-49	4,000	3,000	S	3,000	1,000	3,000
50-59	4,000	3,000	S	2,000	S	3,000
60+	2,000	1,000	S	2,000	S	2,000
Management-related occupations	16,000	8,000	3,000	15,000	6,000	9,000
<30	3,000	2,000	S	3,000	1,000	1,000
30-39	8,000	5,000	1,000	7,000	2,000	5,000
40-49	9,000	5,000	1,000	9,000	4,000	5,000
50-59	10,000	4,000	2,000	9,000	3,000	5,000
60+	6,000	2,000	S	6,000	3,000	4,000
Non-S&E managers	13,000	6,000	2,000	13,000	3,000	6,000
<30	2,000	S	S	2,000	S	S
30-39	6,000	2,000	S	6,000	1,000	3,000
40-49	9,000	4,000	1,000	8,000	1,000	3,000
50-59	8,000	3,000	1,000	8,000	2,000	4,000
60+	4,000	2,000	S	4,000	1,000	1,000
Non-S&E postsecondary teachers	6,000	3,000	6,000	3,000	2,000	2,000
<30	3,000	3,000	3,000	500	S	1,000
30-39	2,000	1,000	2,000	1,000	1,000	1,000
40-49	3,000	2,000	3,000	2,000	1,000	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50-59	3,000	1,000	3,000	1,000	2,000	1,000
60+	1,000	500	1,000	1,000	S	1,000
Non-S&E precollege/other teachers	14,000	6,000	14,000	8,000	3,000	5,000
<30	4,000	3,000	4,000	2,000	S	1,000
30-39	7,000	2,000	7,000	4,000	1,000	2,000
40-49	8,000	2,000	8,000	6,000	1,000	2,000
50-59	7,000	2,000	7,000	4,000	1,000	3,000
60+	4,000	1,000	3,000	2,000	1,000	2,000
Sales/marketing occupations	16,000	7,000	2,000	15,000	4,000	6,000
<30	4,000	1,000	S	3,000	S	1,000
30-39	9,000	5,000	1,000	9,000	2,000	2,000
40-49	7,000	2,000	S	7,000	2,000	3,000
50-59	8,000	2,000	S	8,000	2,000	4,000
60+	6,000	2,000	S	6,000	2,000	3,000
Social services/related occupations	12,000	4,000	6,000	9,000	3,000	11,000
<30	4,000	1,000	2,000	4,000	1,000	4,000
30-39	7,000	2,000	4,000	5,000	2,000	7,000
40-49	6,000	2,000	4,000	4,000	1,000	6,000
50-59	6,000	2,000	3,000	5,000	1,000	6,000
60+	3,000	1,000	1,000	2,000	S	3,000
Other non-S&E occupations	18,000	7,000	7,000	15,000	5,000	12,000
<30	3,000	1,000	2,000	3,000	1,000	2,000
30-39	10,000	4,000	4,000	8,000	2,000	7,000
40-49	8,000	4,000	3,000	7,000	3,000	6,000
50-59	9,000	3,000	3,000	8,000	2,000	7,000
60+	7,000	2,000	2,000	7,000	2,000	5,000
Doctorate degrees, all occupations	11,000	8,000	6,000	8,000	3,000	5,000
<30	3,000	3,000	2,000	1,000	500	1,000
30-39	5,000	3,000	3,000	4,000	2,000	2,000
40-49	5,000	4,000	2,000	4,000	1,000	2,000
50-59	6,000	5,000	4,000	4,000	1,000	3,000
60+	4,000	3,000	3,000	3,000	1,000	2,000
S&E occupations	5,000	5,000	4,000	3,000	2,000	2,000
<30	3,000	3,000	2,000	500	500	500
30-39	3,000	3,000	1,000	1,000	1,000	1,000
40-49	3,000	3,000	1,000	2,000	1,000	1,000
50-59	3,000	2,000	1,000	2,000	1,000	1,000
60+	2,000	1,000	2,000	1,000	1,000	1,000
Scientists	5,000	5,000	4,000	2,000	1,000	2,000
<30	3,000	3,000	2,000	500	500	500
30-39	3,000	3,000	1,000	1,000	1,000	1,000
40-49	2,000	2,000	1,000	1,000	1,000	1,000
50-59	2,000	2,000	1,000	1,000	1,000	1,000
60+	2,000	1,000	2,000	1,000	500	1,000
Biological/agricultural/other life scientists	3,000	3,000	1,000	1,000	500	1,000
<30	2,000	2,000	*	500	*	S
30-39	2,000	2,000	1,000	1,000	500	500
40-49	2,000	1,000	1,000	1,000	500	1,000
50-59	1,000	1,000	1,000	1,000	500	1,000
60+	1,000	1,000	1,000	500	*	500
Agricultural/food scientists	500	500	*	500	500	500
<30	*	*	S	S	S	S
30-39	500	500	*	500	S	*
40-49	500	500	S	500	*	500

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
50-59	500	500	S	500	*	*
60+	500	500	S	500	S	*
Biological/medical scientists	3,000	3,000	1,000	1,000	500	1,000
<30	2,000	2,000	S	500	*	S
30-39	2,000	2,000	1,000	1,000	500	500
40-49	1,000	1,000	500	1,000	500	500
50-59	1,000	1,000	500	1,000	500	1,000
60+	1,000	1,000	*	500	*	500
Environmental life scientists	500	500	S	500	*	*
<30	S	S	S	S	S	S
30-39	*	*	S	S	S	S
40-49	500	500	S	*	S	S
50-59	500	500	S	*	S	S
60+	*	S	S	S	S	S
Postsecondary teachers-life/related sciences	1,000	1,000	1,000	1,000	*	500
<30	*	S	*	S	S	S
30-39	1,000	1,000	500	500	S	*
40-49	1,000	1,000	1,000	500	S	*
50-59	1,000	1,000	1,000	500	S	500
60+	1,000	500	1,000	500	S	500
Computer/mathematical scientists	3,000	3,000	2,000	1,000	1,000	1,000
<30	2,000	2,000	2,000	*	500	S
30-39	1,000	1,000	1,000	500	1,000	500
40-49	1,000	1,000	1,000	1,000	1,000	500
50-59	1,000	1,000	1,000	1,000	1,000	1,000
60+	1,000	1,000	1,000	500	500	500
Computer/information scientists	2,000	2,000	500	1,000	1,000	1,000
<30	*	*	S	S	*	S
30-39	1,000	1,000	S	500	1,000	500
40-49	1,000	1,000	*	1,000	1,000	500
50-59	1,000	1,000	S	1,000	1,000	500
60+	500	500	*	500	500	*
Mathematical scientists	1,000	1,000	500	500	500	500
<30	*	*	S	S	S	S
30-39	500	500	S	*	500	*
40-49	500	500	*	500	500	*
50-59	500	500	*	500	500	*
60+	500	500	S	*	500	*
Postsecondary teachers-computer/mathematical sciences	2,000	2,000	2,000	500	500	500
<30	2,000	2,000	2,000	S	S	S
30-39	1,000	1,000	1,000	500	*	*
40-49	1,000	1,000	1,000	500	*	*
50-59	1,000	500	1,000	500	500	*
60+	1,000	500	1,000	500	500	500
Physical/related scientists	2,000	2,000	1,000	1,000	500	1,000
<30	500	500	*	*	*	*
30-39	1,000	1,000	500	500	500	500
40-49	1,000	1,000	1,000	1,000	500	500
50-59	1,000	1,000	500	1,000	500	500
60+	1,000	1,000	500	500	500	500
Chemists, except biochemists	1,000	1,000	*	1,000	500	500
<30	500	500	S	*	S	*
30-39	1,000	1,000	S	500	*	500

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40-49	1,000	1,000	*	500	*	500
50-59	1,000	1,000	S	500	*	500
60+	500	500	*	500	*	500
Earth/atmospheric/ocean scientists	1,000	500	*	500	500	500
<30	S	S	S	S	S	S
30-39	500	500	*	500	500	*
40-49	500	500	S	500	500	*
50-59	500	500	S	500	500	500
60+	500	500	*	*	S	*
Physicists/astronomers	1,000	1,000	500	500	500	500
<30	*	*	S	S	S	S
30-39	500	500	*	500	500	*
40-49	500	500	*	500	500	*
50-59	500	500	S	500	500	*
60+	500	500	*	500	*	*
Postsecondary teachers-physical/related sciences	1,000	1,000	1,000	500	500	500
<30	*	*	*	S	S	S
30-39	1,000	500	500	500	*	*
40-49	1,000	1,000	1,000	500	*	500
50-59	500	500	500	500	*	*
60+	500	500	500	500	*	500
Other physical/related scientists	1,000	1,000	S	1,000	*	500
<30	S	S	S	S	S	S
30-39	500	500	S	*	S	*
40-49	500	500	S	500	S	*
50-59	500	500	S	500	S	*
60+	*	*	S	S	S	S
Social/related scientists	2,000	2,000	2,000	1,000	500	1,000
<30	500	500	*	500	S	*
30-39	1,000	1,000	1,000	1,000	500	1,000
40-49	1,000	1,000	1,000	1,000	500	1,000
50-59	1,000	1,000	1,000	1,000	500	1,000
60+	1,000	1,000	1,000	1,000	500	1,000
Economists	500	500	*	500	500	500
<30	S	S	S	S	S	S
30-39	500	500	*	500	*	*
40-49	500	500	S	500	*	500
50-59	500	500	S	500	S	500
60+	500	500	S	*	S	*
Political/related scientists	500	500	*	500	S	*
<30	S	S	S	S	S	S
30-39	*	*	S	*	S	S
40-49	*	*	S	*	S	S
50-59	*	*	S	*	S	*
60+	500	*	S	*	S	*
Postsecondary teachers-social/related sciences	2,000	2,000	2,000	1,000	500	1,000
<30	500	*	*	S	S	S
30-39	1,000	1,000	1,000	500	S	500
40-49	1,000	1,000	1,000	500	*	500
50-59	1,000	1,000	1,000	500	*	500
60+	1,000	1,000	1,000	500	*	500
Psychologists	1,000	1,000	500	1,000	500	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	500	500	S	*	S	*
30-39	500	500	500	500	*	500
40-49	1,000	500	500	500	*	1,000
50-59	1,000	500	500	1,000	*	1,000
60+	1,000	500	500	1,000	*	1,000
Sociologists/anthropologists	1,000	1,000	*	500	*	500
<30	S	S	S	S	S	S
30-39	1,000	1,000	S	*	S	S
40-49	500	500	*	500	S	*
50-59	500	500	S	500	S	*
60+	500	*	S	*	S	*
Other social/related scientists	1,000	1,000	*	500	*	500
<30	S	S	S	S	S	S
30-39	500	500	S	500	*	*
40-49	500	500	S	500	S	*
50-59	500	500	S	500	S	*
60+	500	500	S	*	S	*
Engineers	2,000	2,000	1,000	1,000	1,000	1,000
<30	500	500	*	*	500	S
30-39	1,000	1,000	500	500	500	500
40-49	1,000	1,000	500	1,000	500	500
50-59	1,000	1,000	500	1,000	500	500
60+	1,000	1,000	500	500	500	500
Aerospace/aeronautical/astronautical engineers	1,000	1,000	S	500	500	*
<30	S	S	S	S	S	S
30-39	500	500	S	*	*	S
40-49	500	500	S	*	*	S
50-59	500	500	S	*	*	S
60+	500	500	S	*	*	S
Chemical engineers	1,000	1,000	S	500	500	500
<30	*	*	S	*	S	S
30-39	500	500	S	500	*	*
40-49	500	500	S	500	*	500
50-59	500	500	S	*	*	*
60+	500	500	S	*	S	S
Civil/architectural/sanitary engineers	500	500	S	500	500	500
<30	S	S	S	S	S	S
30-39	500	500	S	*	*	*
40-49	500	500	S	500	*	*
50-59	500	500	S	500	*	*
60+	500	500	S	500	S	*
Electrical/computer hardware engineers	1,000	1,000	*	500	500	500
<30	500	500	S	S	*	S
30-39	500	500	S	500	500	*
40-49	500	500	S	500	500	500
50-59	500	500	S	500	500	*
60+	500	500	S	500	*	*
Industrial engineers	1,000	1,000	S	500	*	*
<30	S	S	S	S	S	S
30-39	*	*	S	*	S	S
40-49	1,000	1,000	S	*	*	S
50-59	*	*	S	*	S	S
60+	*	S	S	S	S	S
Mechanical engineers	500	500	*	500	500	500

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	*	*	S	S	S	S
30-39	500	500	S	500	500	*
40-49	500	500	S	500	500	*
50-59	500	500	S	500	*	*
60+	500	500	*	*	*	S
Postsecondary teachers-engineering	1,000	1,000	1,000	500	500	500
<30	*	S	*	S	S	S
30-39	500	500	500	500	S	S
40-49	500	500	500	500	*	*
50-59	500	500	500	500	*	*
60+	500	500	500	500	*	*
Other engineers	1,000	1,000	*	500	500	500
<30	500	500	S	S	S	S
30-39	1,000	1,000	S	500	500	500
40-49	1,000	1,000	S	500	500	500
50-59	500	500	S	500	500	500
60+	500	500	S	500	*	500
S&E-related occupations	5,000	3,000	3,000	3,000	2,000	3,000
<30	1,000	*	*	1,000	S	1,000
30-39	3,000	1,000	2,000	1,000	2,000	1,000
40-49	2,000	1,000	1,000	2,000	500	2,000
50-59	3,000	2,000	2,000	1,000	1,000	2,000
60+	2,000	2,000	1,000	2,000	500	1,000
Health-related occupations	3,000	2,000	2,000	2,000	1,000	3,000
<30	1,000	*	*	1,000	S	1,000
30-39	1,000	1,000	1,000	1,000	*	1,000
40-49	2,000	1,000	1,000	2,000	*	2,000
50-59	2,000	2,000	1,000	1,000	500	2,000
60+	1,000	500	1,000	1,000	*	1,000
S&E managers	1,000	1,000	*	1,000	500	500
<30	S	S	S	S	S	S
30-39	500	500	S	500	*	*
40-49	500	500	S	500	*	500
50-59	1,000	500	S	1,000	*	500
60+	1,000	500	S	1,000	S	1,000
S&E precollege teachers	3,000	1,000	3,000	500	2,000	1,000
<30	S	S	S	S	S	S
30-39	2,000	*	2,000	*	S	S
40-49	1,000	500	1,000	500	S	S
50-59	1,000	1,000	1,000	500	S	S
60+	500	S	500	*	S	S
S&E technicians/technologists	1,000	1,000	*	500	500	500
<30	S	S	S	S	S	S
30-39	1,000	1,000	S	500	500	*
40-49	500	500	S	500	500	S
50-59	500	500	S	*	500	S
60+	500	500	S	S	*	S
Other S&E-related occupations	2,000	1,000	S	1,000	S	*
<30	S	S	S	S	S	S
30-39	500	500	S	S	S	S
40-49	*	S	S	S	S	S
50-59	*	S	S	S	S	S
60+	S	S	S	S	S	S
Non-S&E occupations	8,000	5,000	4,000	7,000	1,000	4,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
<30	*	*	S	*	S	*
30-39	4,000	1,000	1,000	3,000	500	1,000
40-49	4,000	3,000	1,000	4,000	1,000	1,000
50-59	5,000	4,000	3,000	4,000	500	2,000
60+	3,000	1,000	2,000	3,000	500	2,000
Art/humanities/related occupations	1,000	1,000	*	1,000	500	1,000
<30	S	S	S	S	S	S
30-39	500	500	S	500	S	500
40-49	1,000	500	S	1,000	*	1,000
50-59	1,000	1,000	*	500	S	1,000
60+	500	500	S	500	S	500
Management-related occupations	4,000	2,000	1,000	3,000	500	1,000
<30	*	S	S	S	S	S
30-39	3,000	1,000	*	3,000	500	500
40-49	1,000	500	1,000	1,000	*	500
50-59	2,000	1,000	*	2,000	500	1,000
60+	1,000	1,000	500	1,000	*	1,000
Non-S&E managers	4,000	2,000	1,000	4,000	1,000	2,000
<30	S	S	S	S	S	S
30-39	1,000	500	S	1,000	*	1,000
40-49	2,000	1,000	*	1,000	1,000	500
50-59	3,000	1,000	1,000	3,000	*	1,000
60+	2,000	1,000	1,000	2,000	*	1,000
Non-S&E postsecondary teachers	3,000	2,000	3,000	2,000	500	1,000
<30	S	S	S	S	S	S
30-39	1,000	1,000	1,000	500	S	*
40-49	1,000	1,000	1,000	1,000	*	500
50-59	2,000	2,000	2,000	1,000	*	500
60+	1,000	1,000	1,000	1,000	S	1,000
Non-S&E precollege/other teachers	2,000	2,000	2,000	1,000	S	1,000
<30	S	S	S	S	S	S
30-39	500	S	500	*	S	S
40-49	500	S	500	*	S	S
50-59	2,000	2,000	2,000	1,000	S	500
60+	500	S	500	S	S	*
Sales/marketing occupations	3,000	2,000	1,000	3,000	500	500
<30	S	S	S	S	S	S
30-39	500	500	S	500	*	*
40-49	3,000	2,000	S	3,000	S	*
50-59	1,000	500	S	1,000	*	500
60+	1,000	500	S	1,000	*	*
Social services/related occupations	2,000	1,000	2,000	1,000	*	2,000
<30	S	S	S	S	S	S
30-39	500	*	S	*	S	500
40-49	500	*	500	500	S	500
50-59	1,000	*	1,000	1,000	S	1,000
60+	1,000	1,000	1,000	500	S	1,000
Other non-S&E occupations	2,000	1,000	1,000	2,000	500	2,000
<30	S	S	S	S	S	S
30-39	1,000	500	*	1,000	S	1,000

TABLE A-18. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, age, and primary/secondary work activity: 2003

Level of highest degree, occupation, and age (years)	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
40-49	1,000	1,000	*	1,000	*	500
50-59	1,000	1,000	*	1,000	S	1,000
60+	2,000	500	1,000	1,000	500	1,000

* = 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, 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/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): 2003.