

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
All degree levels and occupations ^a	82,000	74,000	26,000	33,000	34,000
U.S. citizen	81,000	72,000	24,000	33,000	34,000
Native-born	78,000	68,000	23,000	33,000	33,000
Naturalized	23,000	22,000	7,000	6,000	8,000
Non-U.S. citizen	19,000	17,000	7,000	4,000	4,000
Permanent resident	17,000	15,000	6,000	3,000	4,000
Temporary resident	9,000	9,000	4,000	2,000	2,000
S&E occupations	39,000	33,000	13,000	6,000	15,000
U.S. citizen	37,000	32,000	11,000	6,000	15,000
Native-born	37,000	31,000	11,000	6,000	14,000
Naturalized	10,000	9,000	3,000	1,000	4,000
Non-U.S. citizen	10,000	9,000	5,000	1,000	1,000
Permanent resident	9,000	8,000	4,000	1,000	1,000
Temporary resident	6,000	6,000	3,000	500	1,000
Scientists	34,000	28,000	12,000	6,000	13,000
U.S. citizen	33,000	28,000	11,000	6,000	13,000
Native-born	32,000	27,000	10,000	6,000	12,000
Naturalized	8,000	7,000	3,000	1,000	3,000
Non-U.S. citizen	9,000	8,000	5,000	1,000	1,000
Permanent resident	8,000	7,000	4,000	1,000	1,000
Temporary resident	5,000	5,000	3,000	500	1,000
Biological/agricultural/other life scientists	10,000	8,000	7,000	2,000	5,000
U.S. citizen	10,000	7,000	6,000	2,000	5,000
Native-born	9,000	7,000	6,000	2,000	5,000
Naturalized	3,000	1,000	2,000	500	1,000
Non-U.S. citizen	3,000	1,000	2,000	*	1,000
Permanent resident	2,000	1,000	2,000	S	500
Temporary resident	2,000	1,000	2,000	S	1,000
Agricultural/food scientists	4,000	3,000	2,000	S	2,000
U.S. citizen	4,000	3,000	2,000	S	2,000
Native-born	3,000	3,000	2,000	S	2,000
Naturalized	500	500	*	S	500
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	1,000	S	S
Temporary resident	1,000	*	1,000	S	S
Biological/medical scientists	9,000	6,000	6,000	*	4,000
U.S. citizen	8,000	6,000	6,000	*	4,000
Native-born	8,000	6,000	6,000	*	4,000
Naturalized	2,000	1,000	1,000	S	1,000
Non-U.S. citizen	2,000	1,000	2,000	S	1,000
Permanent resident	2,000	1,000	1,000	S	500
Temporary resident	2,000	1,000	2,000	S	1,000
Environmental life scientists	4,000	3,000	1,000	S	3,000
U.S. citizen	4,000	3,000	1,000	S	3,000
Native-born	4,000	3,000	1,000	S	3,000
Naturalized	1,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-life/related sciences	3,000	S	2,000	2,000	S
U.S. citizen	3,000	S	2,000	2,000	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Native-born	2,000	S	2,000	2,000	S
Naturalized	1,000	S	1,000	500	S
Non-U.S. citizen	1,000	S	1,000	*	S
Permanent resident	500	S	500	S	S
Temporary resident	500	S	500	S	S
Computer/mathematical scientists	27,000	25,000	7,000	4,000	9,000
U.S. citizen	27,000	24,000	6,000	4,000	9,000
Native-born	26,000	24,000	6,000	4,000	8,000
Naturalized	7,000	7,000	2,000	1,000	3,000
Non-U.S. citizen	8,000	7,000	4,000	1,000	1,000
Permanent resident	7,000	6,000	3,000	500	1,000
Temporary resident	5,000	5,000	2,000	S	1,000
Computer/information scientists	26,000	24,000	6,000	3,000	8,000
U.S. citizen	26,000	24,000	5,000	3,000	8,000
Native-born	25,000	24,000	5,000	3,000	7,000
Naturalized	7,000	7,000	1,000	1,000	2,000
Non-U.S. citizen	8,000	7,000	3,000	S	1,000
Permanent resident	7,000	6,000	2,000	S	1,000
Temporary resident	5,000	5,000	2,000	S	1,000
Mathematical scientists	6,000	4,000	1,000	1,000	3,000
U.S. citizen	6,000	4,000	1,000	1,000	3,000
Native-born	6,000	4,000	1,000	1,000	3,000
Naturalized	1,000	1,000	500	S	1,000
Non-U.S. citizen	1,000	1,000	500	S	*
Permanent resident	500	500	500	S	S
Temporary resident	1,000	500	500	S	S
Postsecondary teachers-computer/mathematical sciences	4,000	500	4,000	3,000	S
U.S. citizen	4,000	500	3,000	3,000	S
Native-born	4,000	500	3,000	3,000	S
Naturalized	1,000	S	1,000	1,000	S
Non-U.S. citizen	2,000	S	2,000	500	S
Permanent resident	2,000	S	2,000	500	S
Temporary resident	1,000	S	1,000	S	S
Physical/related scientists	9,000	8,000	4,000	1,000	4,000
U.S. citizen	9,000	8,000	4,000	1,000	4,000
Native-born	8,000	7,000	3,000	1,000	4,000
Naturalized	2,000	2,000	1,000	500	1,000
Non-U.S. citizen	2,000	1,000	1,000	*	500
Permanent resident	1,000	1,000	1,000	*	*
Temporary resident	1,000	1,000	1,000	S	500
Chemists, except biochemists	6,000	6,000	1,000	S	1,000
U.S. citizen	6,000	6,000	1,000	S	1,000
Native-born	6,000	5,000	1,000	S	1,000
Naturalized	2,000	2,000	500	S	500
Non-U.S. citizen	1,000	1,000	1,000	S	*
Permanent resident	1,000	1,000	500	S	*
Temporary resident	1,000	500	1,000	S	S
Earth/atmospheric/ocean scientists	5,000	4,000	1,000	S	2,000
U.S. citizen	5,000	4,000	1,000	S	2,000
Native-born	5,000	4,000	1,000	S	2,000
Naturalized	1,000	500	*	S	500

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Non-U.S. citizen	1,000	500	500	S	S
Permanent resident	500	500	*	S	S
Temporary resident	500	*	500	S	S
Physicists/astronomers	2,000	2,000	1,000	S	500
U.S. citizen	2,000	1,000	1,000	S	500
Native-born	2,000	1,000	1,000	S	500
Naturalized	1,000	500	500	S	500
Non-U.S. citizen	1,000	500	1,000	S	*
Permanent resident	500	500	500	S	*
Temporary resident	1,000	500	1,000	S	*
Postsecondary teachers-physical/related sciences	3,000	*	3,000	1,000	S
U.S. citizen	3,000	S	2,000	1,000	S
Native-born	3,000	S	2,000	1,000	S
Naturalized	1,000	S	1,000	500	S
Non-U.S. citizen	1,000	S	1,000	*	S
Permanent resident	1,000	S	1,000	*	S
Temporary resident	1,000	S	1,000	S	S
Other physical/related scientists	4,000	2,000	2,000	S	3,000
U.S. citizen	4,000	2,000	2,000	S	3,000
Native-born	4,000	2,000	2,000	S	3,000
Naturalized	1,000	500	S	S	500
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	500	*	500	S	S
Social/related scientists	14,000	11,000	5,000	4,000	6,000
U.S. citizen	13,000	10,000	5,000	4,000	6,000
Native-born	13,000	10,000	5,000	4,000	6,000
Naturalized	2,000	2,000	1,000	1,000	1,000
Non-U.S. citizen	2,000	2,000	1,000	500	1,000
Permanent resident	2,000	2,000	1,000	500	1,000
Temporary resident	2,000	1,000	1,000	S	*
Economists	3,000	3,000	1,000	S	2,000
U.S. citizen	3,000	3,000	1,000	S	2,000
Native-born	3,000	3,000	1,000	S	2,000
Naturalized	1,000	1,000	*	S	*
Non-U.S. citizen	1,000	1,000	500	S	*
Permanent resident	1,000	1,000	*	S	*
Temporary resident	1,000	500	500	S	*
Political/related scientists	2,000	2,000	500	S	2,000
U.S. citizen	2,000	1,000	500	S	2,000
Native-born	2,000	1,000	500	S	2,000
Naturalized	*	*	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-social/related sciences	4,000	1,000	3,000	2,000	*
U.S. citizen	4,000	1,000	3,000	2,000	*
Native-born	4,000	1,000	3,000	2,000	*
Naturalized	1,000	S	1,000	500	S
Non-U.S. citizen	1,000	S	1,000	500	S
Permanent resident	1,000	S	1,000	*	S

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Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Temporary resident	1,000	S	1,000	S	S
Psychologists	6,000	5,000	3,000	3,000	2,000
U.S. citizen	6,000	5,000	3,000	3,000	2,000
Native-born	6,000	5,000	3,000	3,000	2,000
Naturalized	1,000	1,000	1,000	1,000	500
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	500	500	*	S	S
Sociologists/anthropologists	3,000	2,000	1,000	S	1,000
U.S. citizen	3,000	2,000	1,000	S	1,000
Native-born	3,000	2,000	1,000	S	1,000
Naturalized	500	500	*	S	S
Non-U.S. citizen	500	S	*	S	S
Permanent resident	*	S	S	S	S
Temporary resident	*	S	S	S	S
Other social/related scientists	9,000	8,000	2,000	500	4,000
U.S. citizen	9,000	8,000	2,000	*	4,000
Native-born	8,000	8,000	2,000	*	4,000
Naturalized	1,000	1,000	*	S	1,000
Non-U.S. citizen	2,000	2,000	*	S	S
Permanent resident	2,000	1,000	S	S	S
Temporary resident	1,000	1,000	*	S	S
Engineers	18,000	17,000	3,000	1,000	7,000
U.S. citizen	18,000	17,000	2,000	1,000	7,000
Native-born	17,000	16,000	2,000	1,000	7,000
Naturalized	5,000	5,000	1,000	500	2,000
Non-U.S. citizen	5,000	5,000	1,000	S	500
Permanent resident	3,000	3,000	1,000	S	500
Temporary resident	4,000	4,000	1,000	S	*
Aerospace/aeronautical/astronautical engineers	5,000	4,000	500	S	2,000
U.S. citizen	5,000	4,000	500	S	2,000
Native-born	5,000	4,000	500	S	2,000
Naturalized	1,000	1,000	*	S	500
Non-U.S. citizen	500	500	*	S	S
Permanent resident	500	500	S	S	S
Temporary resident	*	*	*	S	S
Chemical engineers	3,000	3,000	500	S	2,000
U.S. citizen	3,000	3,000	500	S	2,000
Native-born	3,000	3,000	500	S	2,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	500	500	S	S
Civil/architectural/sanitary engineers	8,000	7,000	500	S	4,000
U.S. citizen	8,000	6,000	500	S	4,000
Native-born	7,000	6,000	500	S	4,000
Naturalized	2,000	2,000	*	S	2,000
Non-U.S. citizen	1,000	1,000	500	S	500
Permanent resident	1,000	1,000	*	S	500
Temporary resident	1,000	1,000	500	S	S

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Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Electrical/computer hardware engineers	8,000	8,000	1,000	S	2,000
U.S. citizen	8,000	7,000	1,000	S	2,000
Native-born	7,000	7,000	1,000	S	2,000
Naturalized	3,000	3,000	1,000	S	1,000
Non-U.S. citizen	4,000	4,000	1,000	S	*
Permanent resident	2,000	2,000	*	S	S
Temporary resident	3,000	3,000	1,000	S	S
Industrial engineers	5,000	5,000	500	S	1,000
U.S. citizen	4,000	4,000	500	S	1,000
Native-born	4,000	4,000	500	S	1,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	1,000	1,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Mechanical engineers	7,000	7,000	1,000	S	2,000
U.S. citizen	7,000	7,000	1,000	S	2,000
Native-born	7,000	7,000	1,000	S	2,000
Naturalized	2,000	2,000	500	S	1,000
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	1,000	1,000	500	S	S
Postsecondary teachers-engineering	2,000	S	2,000	1,000	S
U.S. citizen	1,000	S	1,000	1,000	S
Native-born	1,000	S	1,000	1,000	S
Naturalized	1,000	S	1,000	*	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	500	S	500	S	S
Temporary resident	1,000	S	1,000	S	S
Other engineers	12,000	12,000	1,000	S	4,000
U.S. citizen	12,000	12,000	1,000	S	4,000
Native-born	12,000	12,000	1,000	S	4,000
Naturalized	2,000	2,000	1,000	S	1,000
Non-U.S. citizen	2,000	2,000	1,000	S	*
Permanent resident	2,000	2,000	*	S	*
Temporary resident	1,000	1,000	1,000	S	S
S&E-related occupations	48,000	37,000	18,000	23,000	18,000
U.S. citizen	48,000	38,000	17,000	22,000	17,000
Native-born	45,000	34,000	15,000	23,000	17,000
Naturalized	14,000	13,000	5,000	3,000	5,000
Non-U.S. citizen	10,000	8,000	5,000	2,000	2,000
Permanent resident	9,000	8,000	4,000	1,000	2,000
Temporary resident	5,000	3,000	3,000	1,000	1,000
Health-related occupations	32,000	30,000	17,000	9,000	15,000
U.S. citizen	33,000	31,000	16,000	9,000	14,000
Native-born	31,000	29,000	14,000	8,000	14,000
Naturalized	11,000	11,000	5,000	2,000	4,000
Non-U.S. citizen	9,000	7,000	5,000	1,000	2,000
Permanent resident	8,000	7,000	4,000	1,000	2,000
Temporary resident	4,000	3,000	3,000	S	S
S&E managers	14,000	13,000	3,000	1,000	6,000

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Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
U.S. citizen	14,000	13,000	3,000	1,000	6,000
Native-born	14,000	13,000	3,000	1,000	6,000
Naturalized	3,000	3,000	1,000	S	1,000
Non-U.S. citizen	2,000	2,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
S&E precollege teachers	21,000	2,000	S	21,000	1,000
U.S. citizen	21,000	2,000	S	21,000	1,000
Native-born	21,000	2,000	S	21,000	1,000
Naturalized	3,000	S	S	3,000	S
Non-U.S. citizen	2,000	S	S	2,000	S
Permanent resident	1,000	S	S	1,000	S
Temporary resident	1,000	S	S	1,000	S
S&E technicians/technologists	15,000	14,000	3,000	2,000	6,000
U.S. citizen	14,000	13,000	3,000	2,000	6,000
Native-born	13,000	12,000	3,000	2,000	6,000
Naturalized	4,000	4,000	1,000	S	1,000
Non-U.S. citizen	3,000	3,000	1,000	S	500
Permanent resident	3,000	3,000	1,000	S	500
Temporary resident	2,000	2,000	1,000	S	S
Other S&E-related occupations	10,000	10,000	1,000	1,000	2,000
U.S. citizen	10,000	10,000	1,000	1,000	2,000
Native-born	10,000	10,000	1,000	S	2,000
Naturalized	3,000	3,000	S	S	1,000
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Non-S&E occupations	70,000	60,000	13,000	26,000	25,000
U.S. citizen	68,000	58,000	13,000	26,000	25,000
Native-born	67,000	57,000	13,000	26,000	25,000
Naturalized	18,000	16,000	3,000	6,000	6,000
Non-U.S. citizen	14,000	13,000	3,000	3,000	4,000
Permanent resident	13,000	12,000	3,000	3,000	3,000
Temporary resident	6,000	6,000	1,000	1,000	1,000
Art/humanities/related occupations	17,000	17,000	4,000	1,000	4,000
U.S. citizen	17,000	16,000	4,000	1,000	4,000
Native-born	16,000	16,000	4,000	1,000	3,000
Naturalized	3,000	3,000	500	S	500
Non-U.S. citizen	3,000	2,000	S	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	2,000	S	S	S	S
Management-related occupations	34,000	31,000	7,000	4,000	12,000
U.S. citizen	34,000	31,000	7,000	4,000	11,000
Native-born	34,000	30,000	6,000	4,000	11,000
Naturalized	9,000	8,000	1,000	1,000	3,000
Non-U.S. citizen	6,000	5,000	1,000	S	2,000
Permanent resident	5,000	5,000	1,000	S	1,000
Temporary resident	2,000	2,000	S	S	S
Non-S&E managers	26,000	23,000	4,000	8,000	8,000
U.S. citizen	25,000	22,000	4,000	8,000	8,000
Native-born	25,000	21,000	4,000	8,000	8,000

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Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Naturalized	4,000	4,000	1,000	1,000	1,000
Non-U.S. citizen	3,000	3,000	500	S	1,000
Permanent resident	3,000	3,000	500	S	S
Temporary resident	2,000	2,000	S	S	S
Non-S&E postsecondary teachers	7,000	1,000	6,000	3,000	2,000
U.S. citizen	7,000	1,000	6,000	3,000	2,000
Native-born	7,000	1,000	5,000	3,000	2,000
Naturalized	2,000	S	2,000	1,000	S
Non-U.S. citizen	1,000	S	1,000	500	S
Permanent resident	1,000	S	1,000	500	S
Temporary resident	1,000	S	1,000	S	S
Non-S&E precollege/other teachers	21,000	5,000	1,000	21,000	2,000
U.S. citizen	21,000	5,000	1,000	21,000	2,000
Native-born	21,000	5,000	1,000	21,000	1,000
Naturalized	5,000	1,000	S	4,000	S
Non-U.S. citizen	3,000	1,000	S	2,000	S
Permanent resident	2,000	1,000	S	2,000	S
Temporary resident	1,000	S	S	1,000	S
Sales/marketing occupations	32,000	32,000	3,000	S	3,000
U.S. citizen	31,000	31,000	3,000	S	3,000
Native-born	30,000	30,000	3,000	S	3,000
Naturalized	9,000	9,000	S	S	S
Non-U.S. citizen	6,000	6,000	S	S	S
Permanent resident	6,000	6,000	S	S	S
Temporary resident	2,000	2,000	S	S	S
Social services/related occupations	17,000	14,000	4,000	7,000	10,000
U.S. citizen	17,000	14,000	4,000	7,000	10,000
Native-born	17,000	13,000	4,000	7,000	10,000
Naturalized	4,000	3,000	1,000	1,000	2,000
Non-U.S. citizen	3,000	3,000	1,000	S	1,000
Permanent resident	3,000	3,000	S	S	1,000
Temporary resident	1,000	500	S	S	S
Other non-S&E occupations	41,000	37,000	8,000	9,000	20,000
U.S. citizen	40,000	36,000	7,000	9,000	19,000
Native-born	39,000	33,000	7,000	8,000	19,000
Naturalized	11,000	10,000	1,000	2,000	5,000
Non-U.S. citizen	10,000	9,000	2,000	2,000	2,000
Permanent resident	9,000	8,000	2,000	2,000	2,000
Temporary resident	5,000	5,000	500	S	S
Bachelor's degrees, all occupations	69,000	61,000	20,000	24,000	30,000
U.S. citizen	69,000	60,000	19,000	24,000	29,000
Native-born	65,000	57,000	18,000	24,000	28,000
Naturalized	19,000	17,000	5,000	5,000	6,000
Non-U.S. citizen	14,000	13,000	4,000	3,000	4,000
Permanent resident	13,000	11,000	4,000	2,000	3,000
Temporary resident	7,000	7,000	2,000	1,000	2,000
S&E occupations	32,000	29,000	9,000	4,000	12,000
U.S. citizen	32,000	28,000	9,000	4,000	12,000
Native-born	31,000	28,000	8,000	4,000	11,000
Naturalized	8,000	7,000	2,000	1,000	3,000
Non-U.S. citizen	7,000	7,000	2,000	S	1,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Permanent resident	6,000	6,000	1,000	S	1,000
Temporary resident	4,000	4,000	2,000	S	1,000
Scientists	27,000	24,000	9,000	3,000	10,000
U.S. citizen	27,000	24,000	8,000	3,000	10,000
Native-born	26,000	24,000	8,000	3,000	9,000
Naturalized	6,000	5,000	2,000	1,000	2,000
Non-U.S. citizen	6,000	6,000	2,000	S	1,000
Permanent resident	6,000	5,000	1,000	S	1,000
Temporary resident	3,000	3,000	2,000	S	1,000
Biological/agricultural/other life scientists	9,000	7,000	6,000	1,000	4,000
U.S. citizen	8,000	7,000	6,000	1,000	4,000
Native-born	8,000	6,000	5,000	500	4,000
Naturalized	2,000	1,000	2,000	S	1,000
Non-U.S. citizen	2,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	1,000	S	S
Temporary resident	1,000	S	1,000	S	S
Agricultural/food scientists	3,000	3,000	1,000	S	2,000
U.S. citizen	3,000	3,000	1,000	S	2,000
Native-born	3,000	3,000	1,000	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	1,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Biological/medical scientists	7,000	5,000	5,000	S	3,000
U.S. citizen	7,000	5,000	5,000	S	3,000
Native-born	7,000	5,000	5,000	S	3,000
Naturalized	1,000	1,000	1,000	S	1,000
Non-U.S. citizen	1,000	500	1,000	S	S
Permanent resident	1,000	500	1,000	S	S
Temporary resident	1,000	S	500	S	S
Environmental life scientists	4,000	3,000	S	S	2,000
U.S. citizen	4,000	3,000	S	S	2,000
Native-born	4,000	3,000	S	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-life/related sciences	2,000	S	1,000	S	S
U.S. citizen	2,000	S	1,000	S	S
Native-born	2,000	S	1,000	S	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Computer/mathematical scientists	24,000	23,000	5,000	3,000	6,000
U.S. citizen	24,000	22,000	5,000	3,000	6,000
Native-born	24,000	22,000	5,000	3,000	6,000
Naturalized	6,000	5,000	1,000	1,000	2,000
Non-U.S. citizen	5,000	5,000	1,000	S	1,000
Permanent resident	5,000	5,000	1,000	S	500
Temporary resident	3,000	3,000	1,000	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Computer/information scientists	23,000	22,000	4,000	3,000	6,000
U.S. citizen	23,000	22,000	4,000	3,000	6,000
Native-born	23,000	22,000	4,000	3,000	5,000
Naturalized	6,000	5,000	1,000	1,000	2,000
Non-U.S. citizen	5,000	5,000	1,000	S	1,000
Permanent resident	5,000	5,000	1,000	S	500
Temporary resident	3,000	3,000	1,000	S	S
Mathematical scientists	5,000	4,000	1,000	S	2,000
U.S. citizen	5,000	4,000	1,000	S	2,000
Native-born	5,000	4,000	1,000	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-computer/mathematical sciences	2,000	S	2,000	2,000	S
U.S. citizen	2,000	S	2,000	2,000	S
Native-born	2,000	S	2,000	2,000	S
Naturalized	1,000	S	S	500	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physical/related scientists	8,000	7,000	3,000	S	4,000
U.S. citizen	8,000	6,000	3,000	S	4,000
Native-born	7,000	6,000	3,000	S	4,000
Naturalized	1,000	1,000	500	S	S
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	S	1,000	S	S
Chemists, except biochemists	6,000	5,000	1,000	S	1,000
U.S. citizen	6,000	5,000	1,000	S	1,000
Native-born	5,000	5,000	1,000	S	1,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Earth/atmospheric/ocean scientists	3,000	3,000	1,000	S	2,000
U.S. citizen	3,000	3,000	1,000	S	2,000
Native-born	3,000	3,000	1,000	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Physicists/astronomers	1,000	1,000	1,000	S	*
U.S. citizen	1,000	1,000	500	S	*
Native-born	1,000	1,000	500	S	*
Naturalized	S	S	S	S	S
Non-U.S. citizen	500	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-physical/related sciences	2,000	S	2,000	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
U.S. citizen	2,000	S	2,000	S	S
Native-born	2,000	S	2,000	S	S
Naturalized	500	S	500	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other physical/related scientists	4,000	2,000	2,000	S	3,000
U.S. citizen	3,000	2,000	2,000	S	3,000
Native-born	3,000	2,000	S	S	3,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Social/related scientists	8,000	7,000	3,000	2,000	4,000
U.S. citizen	7,000	6,000	3,000	2,000	4,000
Native-born	7,000	6,000	3,000	2,000	4,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	S	S	S	S
Economists	2,000	2,000	500	S	500
U.S. citizen	2,000	2,000	500	S	500
Native-born	2,000	2,000	500	S	500
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Political/related scientists	2,000	2,000	S	S	1,000
U.S. citizen	2,000	1,000	S	S	1,000
Native-born	2,000	1,000	S	S	1,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	S	1,000	1,000	S
U.S. citizen	2,000	S	1,000	1,000	S
Native-born	2,000	S	1,000	1,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Psychologists	3,000	2,000	2,000	1,000	1,000
U.S. citizen	3,000	2,000	2,000	1,000	1,000
Native-born	2,000	2,000	1,000	S	1,000
Naturalized	1,000	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	2,000	2,000	1,000	S	1,000
U.S. citizen	2,000	2,000	1,000	S	1,000
Native-born	2,000	2,000	1,000	S	1,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	6,000	6,000	2,000	S	3,000
U.S. citizen	6,000	6,000	2,000	S	3,000
Native-born	6,000	6,000	2,000	S	3,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Engineers	17,000	16,000	2,000	1,000	6,000
U.S. citizen	16,000	15,000	2,000	1,000	6,000
Native-born	16,000	15,000	2,000	1,000	6,000
Naturalized	4,000	4,000	1,000	S	2,000
Non-U.S. citizen	4,000	4,000	1,000	S	500
Permanent resident	2,000	2,000	*	S	500
Temporary resident	3,000	4,000	1,000	S	S
Aerospace/aeronautical/astronautical engineers	4,000	3,000	*	S	1,000
U.S. citizen	4,000	3,000	*	S	1,000
Native-born	3,000	3,000	*	S	1,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	500	500	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	3,000	2,000	500	S	2,000
U.S. citizen	3,000	2,000	500	S	2,000
Native-born	3,000	2,000	500	S	2,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	500	S	S	S
Permanent resident	500	500	S	S	S
Temporary resident	500	S	S	S	S
Civil/architectural/sanitary engineers	7,000	6,000	500	S	4,000
U.S. citizen	7,000	6,000	500	S	4,000
Native-born	7,000	6,000	500	S	4,000
Naturalized	2,000	1,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	S	S	500
Permanent resident	1,000	1,000	S	S	500
Temporary resident	500	500	S	S	S
Electrical/computer hardware engineers	7,000	7,000	1,000	S	2,000
U.S. citizen	6,000	6,000	1,000	S	2,000
Native-born	6,000	6,000	1,000	S	2,000
Naturalized	3,000	3,000	S	S	1,000
Non-U.S. citizen	4,000	4,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	3,000	3,000	S	S	S
Industrial engineers	4,000	4,000	500	S	1,000
U.S. citizen	4,000	4,000	500	S	1,000
Native-born	4,000	4,000	500	S	1,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Permanent resident	500	500	S	S	S
Temporary resident	1,000	1,000	S	S	S
Mechanical engineers	6,000	6,000	1,000	S	1,000
U.S. citizen	6,000	6,000	1,000	S	1,000
Native-born	5,000	5,000	1,000	S	1,000
Naturalized	2,000	2,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	500	500	S	S	S
Postsecondary teachers-engineering	1,000	S	1,000	500	S
U.S. citizen	1,000	S	1,000	500	S
Native-born	1,000	S	1,000	500	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Other engineers	11,000	11,000	1,000	S	3,000
U.S. citizen	11,000	10,000	1,000	S	3,000
Native-born	11,000	10,000	1,000	S	3,000
Naturalized	2,000	2,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
S&E-related occupations	39,000	32,000	14,000	16,000	14,000
U.S. citizen	39,000	31,000	13,000	16,000	14,000
Native-born	37,000	29,000	12,000	16,000	13,000
Naturalized	11,000	10,000	4,000	3,000	4,000
Non-U.S. citizen	8,000	7,000	3,000	1,000	2,000
Permanent resident	8,000	6,000	3,000	1,000	2,000
Temporary resident	3,000	3,000	1,000	S	S
Health-related occupations	31,000	27,000	13,000	7,000	12,000
U.S. citizen	30,000	27,000	13,000	7,000	12,000
Native-born	28,000	24,000	11,000	7,000	12,000
Naturalized	9,000	9,000	4,000	2,000	3,000
Non-U.S. citizen	8,000	6,000	3,000	S	2,000
Permanent resident	7,000	6,000	3,000	S	2,000
Temporary resident	3,000	3,000	S	S	S
S&E managers	12,000	11,000	2,000	S	4,000
U.S. citizen	12,000	11,000	2,000	S	4,000
Native-born	11,000	11,000	2,000	S	4,000
Naturalized	2,000	2,000	S	S	1,000
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
S&E precollege teachers	14,000	S	S	14,000	S
U.S. citizen	14,000	S	S	14,000	S
Native-born	14,000	S	S	14,000	S
Naturalized	2,000	S	S	2,000	S
Non-U.S. citizen	1,000	S	S	1,000	S
Permanent resident	1,000	S	S	1,000	S
Temporary resident	S	S	S	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
S&E technicians/technologists	14,000	13,000	3,000	1,000	5,000
U.S. citizen	14,000	12,000	3,000	1,000	5,000
Native-born	13,000	12,000	3,000	1,000	5,000
Naturalized	4,000	4,000	1,000	S	1,000
Non-U.S. citizen	3,000	3,000	1,000	S	S
Permanent resident	3,000	3,000	500	S	S
Temporary resident	1,000	1,000	S	S	S
Other S&E-related occupations	9,000	8,000	1,000	S	2,000
U.S. citizen	8,000	8,000	1,000	S	2,000
Native-born	8,000	8,000	1,000	S	2,000
Naturalized	2,000	2,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	58,000	52,000	9,000	19,000	21,000
U.S. citizen	59,000	52,000	8,000	19,000	21,000
Native-born	57,000	50,000	8,000	19,000	21,000
Naturalized	15,000	13,000	2,000	4,000	4,000
Non-U.S. citizen	10,000	10,000	2,000	2,000	3,000
Permanent resident	9,000	9,000	2,000	2,000	2,000
Temporary resident	5,000	5,000	1,000	1,000	S
Art/humanities/related occupations	14,000	13,000	2,000	1,000	3,000
U.S. citizen	13,000	13,000	2,000	1,000	3,000
Native-born	13,000	13,000	2,000	1,000	3,000
Naturalized	2,000	2,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Management-related occupations	28,000	26,000	5,000	3,000	8,000
U.S. citizen	28,000	26,000	5,000	3,000	8,000
Native-born	27,000	25,000	4,000	3,000	8,000
Naturalized	7,000	7,000	1,000	S	1,000
Non-U.S. citizen	3,000	3,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Non-S&E managers	21,000	19,000	2,000	3,000	6,000
U.S. citizen	21,000	18,000	2,000	3,000	6,000
Native-born	20,000	18,000	1,000	3,000	6,000
Naturalized	4,000	3,000	S	S	S
Non-U.S. citizen	3,000	3,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E postsecondary teachers	3,000	1,000	3,000	1,000	1,000
U.S. citizen	3,000	1,000	2,000	1,000	S
Native-born	3,000	1,000	2,000	1,000	S
Naturalized	2,000	S	2,000	S	S
Non-U.S. citizen	1,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E precollege/other teachers	17,000	4,000	500	17,000	1,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
U.S. citizen	17,000	4,000	500	17,000	1,000
Native-born	17,000	4,000	500	16,000	1,000
Naturalized	4,000	S	S	4,000	S
Non-U.S. citizen	2,000	S	S	2,000	S
Permanent resident	2,000	S	S	2,000	S
Temporary resident	1,000	S	S	S	S
Sales/marketing occupations	28,000	28,000	3,000	S	3,000
U.S. citizen	28,000	28,000	3,000	S	3,000
Native-born	27,000	27,000	3,000	S	3,000
Naturalized	7,000	7,000	S	S	S
Non-U.S. citizen	5,000	5,000	S	S	S
Permanent resident	5,000	5,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Social services/related occupations	12,000	8,000	3,000	3,000	7,000
U.S. citizen	12,000	8,000	3,000	3,000	7,000
Native-born	12,000	7,000	3,000	3,000	7,000
Naturalized	2,000	2,000	S	S	2,000
Non-U.S. citizen	3,000	3,000	S	S	1,000
Permanent resident	3,000	2,000	S	S	1,000
Temporary resident	1,000	S	S	S	S
Other non-S&E occupations	36,000	32,000	5,000	6,000	17,000
U.S. citizen	36,000	32,000	5,000	6,000	16,000
Native-born	35,000	30,000	5,000	6,000	16,000
Naturalized	10,000	9,000	1,000	1,000	4,000
Non-U.S. citizen	8,000	7,000	2,000	S	2,000
Permanent resident	7,000	6,000	2,000	S	2,000
Temporary resident	4,000	4,000	S	S	S
Master's degrees, all occupations	47,000	38,000	13,000	22,000	19,000
U.S. citizen	44,000	35,000	12,000	22,000	18,000
Native-born	43,000	34,000	12,000	22,000	17,000
Naturalized	12,000	10,000	3,000	4,000	5,000
Non-U.S. citizen	11,000	10,000	4,000	2,000	3,000
Permanent resident	10,000	9,000	3,000	2,000	3,000
Temporary resident	6,000	5,000	2,000	1,000	1,000
S&E occupations	20,000	16,000	7,000	5,000	8,000
U.S. citizen	19,000	15,000	6,000	5,000	8,000
Native-born	18,000	15,000	6,000	5,000	8,000
Naturalized	6,000	5,000	2,000	1,000	2,000
Non-U.S. citizen	7,000	6,000	3,000	1,000	1,000
Permanent resident	6,000	5,000	2,000	500	1,000
Temporary resident	4,000	4,000	2,000	S	1,000
Scientists	18,000	14,000	7,000	5,000	7,000
U.S. citizen	17,000	13,000	6,000	5,000	7,000
Native-born	16,000	13,000	6,000	5,000	7,000
Naturalized	5,000	4,000	1,000	1,000	1,000
Non-U.S. citizen	6,000	6,000	3,000	1,000	1,000
Permanent resident	5,000	4,000	2,000	500	1,000
Temporary resident	4,000	4,000	2,000	S	1,000
Biological/agricultural/other life scientists	5,000	3,000	3,000	1,000	2,000
U.S. citizen	5,000	3,000	3,000	1,000	2,000
Native-born	5,000	3,000	3,000	1,000	2,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Naturalized	1,000	1,000	500	S	500
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	1,000	S	S
Temporary resident	1,000	500	1,000	S	S
Agricultural/food scientists	2,000	1,000	2,000	S	1,000
U.S. citizen	2,000	1,000	2,000	S	1,000
Native-born	2,000	1,000	2,000	S	1,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	1,000	S	500	S	S
Permanent resident	S	S	S	S	S
Temporary resident	500	S	500	S	S
Biological/medical scientists	4,000	3,000	2,000	S	2,000
U.S. citizen	4,000	3,000	2,000	S	2,000
Native-born	4,000	3,000	2,000	S	2,000
Naturalized	1,000	1,000	500	S	500
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	500	500	S	S
Temporary resident	1,000	500	1,000	S	S
Environmental life scientists	2,000	1,000	S	S	1,000
U.S. citizen	2,000	1,000	S	S	1,000
Native-born	2,000	1,000	S	S	1,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-life/related sciences	2,000	S	1,000	1,000	S
U.S. citizen	2,000	S	1,000	1,000	S
Native-born	2,000	S	1,000	1,000	S
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Computer/mathematical scientists	14,000	12,000	4,000	3,000	5,000
U.S. citizen	13,000	11,000	3,000	3,000	5,000
Native-born	12,000	10,000	3,000	3,000	5,000
Naturalized	4,000	4,000	1,000	500	1,000
Non-U.S. citizen	6,000	5,000	3,000	500	1,000
Permanent resident	5,000	4,000	2,000	500	1,000
Temporary resident	4,000	4,000	2,000	S	500
Computer/information scientists	13,000	12,000	4,000	2,000	5,000
U.S. citizen	12,000	11,000	2,000	2,000	5,000
Native-born	11,000	10,000	2,000	2,000	5,000
Naturalized	4,000	4,000	1,000	S	1,000
Non-U.S. citizen	6,000	5,000	3,000	S	1,000
Permanent resident	5,000	4,000	2,000	S	1,000
Temporary resident	4,000	4,000	1,000	S	500
Mathematical scientists	3,000	2,000	1,000	S	1,000
U.S. citizen	3,000	2,000	500	S	1,000
Native-born	3,000	2,000	500	S	1,000
Naturalized	1,000	1,000	S	S	1,000
Non-U.S. citizen	500	500	500	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Permanent resident	500	500	S	S	S
Temporary resident	500	500	*	S	S
Postsecondary teachers-computer/mathematical sciences	3,000	S	2,000	2,000	S
U.S. citizen	3,000	S	2,000	2,000	S
Native-born	3,000	S	2,000	2,000	S
Naturalized	1,000	S	500	500	S
Non-U.S. citizen	1,000	S	1,000	500	S
Permanent resident	500	S	500	500	S
Temporary resident	1,000	S	1,000	S	S
Physical/related scientists	5,000	4,000	2,000	1,000	2,000
U.S. citizen	5,000	4,000	2,000	1,000	2,000
Native-born	5,000	4,000	2,000	1,000	2,000
Naturalized	1,000	1,000	1,000	S	500
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	1,000	500	1,000	S	S
Chemists, except biochemists	3,000	2,000	1,000	S	1,000
U.S. citizen	2,000	2,000	500	S	1,000
Native-born	2,000	2,000	*	S	1,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	500	1,000	S	S
Earth/atmospheric/ocean scientists	3,000	3,000	1,000	S	1,000
U.S. citizen	3,000	3,000	500	S	1,000
Native-born	3,000	3,000	500	S	1,000
Naturalized	500	500	S	S	S
Non-U.S. citizen	500	S	*	S	S
Permanent resident	S	S	S	S	S
Temporary resident	500	S	*	S	S
Physicists/astronomers	1,000	1,000	500	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	1,000	500	S	500
Naturalized	500	S	S	S	S
Non-U.S. citizen	500	S	500	S	S
Permanent resident	S	S	S	S	S
Temporary resident	500	S	500	S	S
Postsecondary teachers-physical/related sciences	2,000	S	2,000	1,000	S
U.S. citizen	2,000	S	2,000	1,000	S
Native-born	2,000	S	2,000	1,000	S
Naturalized	1,000	S	1,000	S	S
Non-U.S. citizen	500	S	500	S	S
Permanent resident	S	S	S	S	S
Temporary resident	500	S	500	S	S
Other physical/related scientists	1,000	1,000	S	S	1,000
U.S. citizen	1,000	1,000	S	S	1,000
Native-born	1,000	1,000	S	S	1,000
Naturalized	500	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Social/related scientists	10,000	8,000	3,000	3,000	4,000
U.S. citizen	10,000	7,000	3,000	3,000	4,000
Native-born	10,000	7,000	3,000	3,000	4,000
Naturalized	2,000	1,000	500	500	S
Non-U.S. citizen	2,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	1,000	S	S
Economists	3,000	2,000	1,000	S	2,000
U.S. citizen	3,000	2,000	500	S	2,000
Native-born	2,000	2,000	500	S	2,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	S	S	S	S	S
Temporary resident	500	500	500	S	S
Political/related scientists	1,000	1,000	*	S	1,000
U.S. citizen	1,000	1,000	S	S	1,000
Native-born	1,000	500	S	S	1,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	S	2,000	2,000	S
U.S. citizen	2,000	S	2,000	2,000	S
Native-born	2,000	S	2,000	2,000	S
Naturalized	500	S	500	*	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	500	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Psychologists	6,000	4,000	2,000	3,000	2,000
U.S. citizen	6,000	4,000	2,000	3,000	2,000
Native-born	6,000	4,000	2,000	3,000	2,000
Naturalized	1,000	500	S	500	S
Non-U.S. citizen	1,000	500	S	S	S
Permanent resident	500	500	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	2,000	1,000	1,000	S	500
U.S. citizen	2,000	1,000	1,000	S	500
Native-born	2,000	1,000	1,000	S	500
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other social/related scientists	6,000	5,000	1,000	S	2,000
U.S. citizen	6,000	5,000	1,000	S	2,000
Native-born	5,000	5,000	1,000	S	2,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Engineers	9,000	9,000	2,000	1,000	4,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
U.S. citizen	9,000	9,000	1,000	1,000	4,000
Native-born	9,000	8,000	1,000	1,000	4,000
Naturalized	4,000	4,000	1,000	S	1,000
Non-U.S. citizen	3,000	3,000	1,000	S	500
Permanent resident	3,000	2,000	500	S	500
Temporary resident	2,000	2,000	1,000	S	S
Aerospace/aeronautical/astronautical engineers	4,000	3,000	500	S	2,000
U.S. citizen	4,000	3,000	500	S	2,000
Native-born	3,000	3,000	500	S	2,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	500	500	*	S	S
Permanent resident	500	S	S	S	S
Temporary resident	*	S	*	S	S
Chemical engineers	2,000	2,000	500	S	S
U.S. citizen	2,000	2,000	*	S	S
Native-born	2,000	2,000	*	S	S
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	500	500	*	S	S
Civil/architectural/sanitary engineers	3,000	3,000	500	S	2,000
U.S. citizen	3,000	3,000	500	S	2,000
Native-born	3,000	3,000	500	S	2,000
Naturalized	1,000	1,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	S	S	*
Permanent resident	1,000	1,000	S	S	*
Temporary resident	1,000	1,000	S	S	S
Electrical/computer hardware engineers	5,000	5,000	1,000	S	1,000
U.S. citizen	5,000	5,000	1,000	S	1,000
Native-born	4,000	4,000	1,000	S	1,000
Naturalized	2,000	2,000	1,000	S	500
Non-U.S. citizen	2,000	2,000	500	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	500	S	S
Industrial engineers	3,000	3,000	*	S	1,000
U.S. citizen	3,000	2,000	S	S	1,000
Native-born	2,000	2,000	S	S	1,000
Naturalized	1,000	500	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	500	500	S	S	S
Temporary resident	1,000	1,000	S	S	S
Mechanical engineers	4,000	4,000	1,000	S	1,000
U.S. citizen	4,000	4,000	1,000	S	1,000
Native-born	4,000	4,000	500	S	1,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	500	S	S
Postsecondary teachers-engineering	1,000	S	1,000	1,000	S
U.S. citizen	1,000	S	1,000	1,000	S
Native-born	1,000	S	1,000	1,000	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Naturalized	500	S	S	S	S
Non-U.S. citizen	500	S	500	S	S
Permanent resident	S	S	S	S	S
Temporary resident	500	S	500	S	S
Other engineers	6,000	6,000	1,000	S	2,000
U.S. citizen	6,000	6,000	1,000	S	2,000
Native-born	6,000	5,000	1,000	S	2,000
Naturalized	1,000	1,000	S	S	500
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	500	S	S
S&E-related occupations	23,000	17,000	7,000	13,000	8,000
U.S. citizen	23,000	17,000	7,000	13,000	8,000
Native-born	22,000	16,000	6,000	13,000	8,000
Naturalized	6,000	6,000	1,000	2,000	2,000
Non-U.S. citizen	3,000	3,000	1,000	1,000	1,000
Permanent resident	3,000	2,000	1,000	1,000	1,000
Temporary resident	2,000	1,000	500	S	S
Health-related occupations	16,000	15,000	6,000	6,000	6,000
U.S. citizen	15,000	14,000	6,000	6,000	6,000
Native-born	15,000	14,000	6,000	6,000	6,000
Naturalized	5,000	4,000	1,000	1,000	2,000
Non-U.S. citizen	2,000	2,000	1,000	S	S
Permanent resident	2,000	2,000	1,000	S	S
Temporary resident	S	S	S	S	S
S&E managers	7,000	6,000	2,000	S	4,000
U.S. citizen	7,000	6,000	2,000	S	4,000
Native-born	7,000	6,000	2,000	S	4,000
Naturalized	2,000	2,000	500	S	500
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	500	500	S	S	S
S&E precollege teachers	12,000	2,000	S	12,000	500
U.S. citizen	12,000	2,000	S	12,000	500
Native-born	12,000	2,000	S	12,000	500
Naturalized	2,000	S	S	2,000	S
Non-U.S. citizen	1,000	S	S	1,000	S
Permanent resident	1,000	S	S	1,000	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	6,000	5,000	1,000	S	2,000
U.S. citizen	6,000	5,000	1,000	S	2,000
Native-born	5,000	4,000	1,000	S	2,000
Naturalized	3,000	3,000	500	S	1,000
Non-U.S. citizen	2,000	2,000	500	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	500	S	S
Other S&E-related occupations	5,000	5,000	S	S	1,000
U.S. citizen	5,000	5,000	S	S	1,000
Native-born	5,000	5,000	S	S	1,000
Naturalized	2,000	2,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Non-S&E occupations	38,000	31,000	9,000	18,000	14,000
U.S. citizen	36,000	28,000	9,000	18,000	13,000
Native-born	35,000	28,000	9,000	18,000	12,000
Naturalized	9,000	7,000	2,000	3,000	4,000
Non-U.S. citizen	8,000	7,000	2,000	2,000	2,000
Permanent resident	7,000	7,000	1,000	2,000	2,000
Temporary resident	4,000	3,000	1,000	S	S
Art/humanities/related occupations	8,000	8,000	3,000	S	2,000
U.S. citizen	8,000	7,000	3,000	S	1,000
Native-born	8,000	7,000	3,000	S	1,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	2,000	S	S	S	S
Temporary resident	S	S	S	S	S
Management-related occupations	16,000	14,000	4,000	3,000	7,000
U.S. citizen	16,000	14,000	4,000	3,000	7,000
Native-born	15,000	14,000	4,000	2,000	6,000
Naturalized	5,000	4,000	1,000	S	2,000
Non-U.S. citizen	4,000	3,000	S	S	1,000
Permanent resident	4,000	3,000	S	S	1,000
Temporary resident	2,000	2,000	S	S	S
Non-S&E Managers	13,000	11,000	3,000	6,000	5,000
U.S. citizen	14,000	11,000	3,000	6,000	5,000
Native-born	13,000	11,000	3,000	6,000	5,000
Naturalized	3,000	3,000	1,000	500	1,000
Non-U.S. citizen	2,000	2,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Non-S&E postsecondary teachers	6,000	S	5,000	3,000	1,000
U.S. citizen	5,000	S	5,000	3,000	1,000
Native-born	5,000	S	4,000	3,000	1,000
Naturalized	1,000	S	500	500	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	500	S	500	S	S
Temporary resident	500	S	500	S	S
Non-S&E precollege/other teachers	14,000	3,000	1,000	14,000	1,000
U.S. citizen	14,000	3,000	1,000	14,000	1,000
Native-born	15,000	3,000	1,000	14,000	1,000
Naturalized	2,000	1,000	S	2,000	S
Non-U.S. citizen	2,000	S	S	1,000	S
Permanent resident	2,000	S	S	1,000	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	16,000	16,000	S	S	1,000
U.S. citizen	15,000	15,000	S	S	1,000
Native-born	14,000	14,000	S	S	S
Naturalized	4,000	4,000	S	S	S
Non-U.S. citizen	3,000	3,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	1,000	1,000	S	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Social services/related occupations	12,000	10,000	3,000	6,000	6,000
U.S. citizen	12,000	10,000	3,000	6,000	6,000
Native-born	12,000	10,000	3,000	6,000	6,000
Naturalized	3,000	2,000	1,000	1,000	2,000
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	18,000	16,000	5,000	5,000	9,000
U.S. citizen	17,000	14,000	5,000	5,000	9,000
Native-born	16,000	14,000	5,000	5,000	8,000
Naturalized	4,000	3,000	1,000	S	2,000
Non-U.S. citizen	5,000	5,000	1,000	1,000	1,000
Permanent resident	4,000	4,000	1,000	1,000	1,000
Temporary resident	2,000	2,000	500	S	S
Doctorate degrees, all occupations	11,000	7,000	7,000	5,000	3,000
U.S. citizen	10,000	6,000	6,000	5,000	3,000
Native-born	9,000	6,000	6,000	4,000	2,000
Naturalized	3,000	2,000	2,000	1,000	2,000
Non-U.S. citizen	4,000	3,000	3,000	1,000	1,000
Permanent resident	4,000	3,000	2,000	1,000	1,000
Temporary resident	2,000	1,000	2,000	*	1,000
S&E occupations	5,000	3,000	4,000	1,000	2,000
U.S. citizen	5,000	3,000	3,000	1,000	2,000
Native-born	4,000	2,000	3,000	1,000	2,000
Naturalized	2,000	1,000	2,000	500	1,000
Non-U.S. citizen	3,000	2,000	3,000	500	1,000
Permanent resident	3,000	2,000	2,000	500	500
Temporary resident	2,000	1,000	1,000	*	1,000
Scientists	5,000	3,000	4,000	1,000	2,000
U.S. citizen	4,000	2,000	3,000	1,000	2,000
Native-born	4,000	2,000	3,000	1,000	2,000
Naturalized	2,000	1,000	1,000	500	1,000
Non-U.S. citizen	3,000	2,000	3,000	500	1,000
Permanent resident	3,000	1,000	2,000	500	500
Temporary resident	2,000	1,000	1,000	*	1,000
Biological/agricultural/other life scientists	3,000	1,000	3,000	500	1,000
U.S. citizen	3,000	1,000	2,000	500	1,000
Native-born	2,000	1,000	2,000	500	1,000
Naturalized	1,000	1,000	1,000	*	500
Non-U.S. citizen	2,000	1,000	2,000	*	1,000
Permanent resident	1,000	1,000	1,000	S	500
Temporary resident	1,000	1,000	1,000	S	500
Agricultural/food scientists	500	500	500	S	500
U.S. citizen	500	500	500	S	500
Native-born	500	500	500	S	500
Naturalized	500	500	*	S	S
Non-U.S. citizen	500	500	500	S	S
Permanent resident	500	*	500	S	S
Temporary resident	*	*	*	S	S
Biological/medical scientists	3,000	1,000	2,000	*	1,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
U.S. citizen	2,000	1,000	2,000	*	1,000
Native-born	2,000	1,000	1,000	*	1,000
Naturalized	1,000	1,000	1,000	S	500
Non-U.S. citizen	2,000	1,000	2,000	S	1,000
Permanent resident	1,000	1,000	1,000	S	500
Temporary resident	1,000	500	1,000	S	500
Environmental life scientists	500	*	500	S	500
U.S. citizen	500	*	500	S	500
Native-born	500	*	*	S	500
Naturalized	S	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-life/related sciences	1,000	S	1,000	500	S
U.S. citizen	1,000	S	1,000	500	S
Native-born	1,000	S	1,000	500	S
Naturalized	500	S	500	*	S
Non-U.S. citizen	1,000	S	500	*	S
Permanent resident	500	S	500	S	S
Temporary resident	500	S	500	S	S
Computer/mathematical scientists	3,000	2,000	3,000	500	1,000
U.S. citizen	2,000	1,000	2,000	500	1,000
Native-born	2,000	1,000	1,000	500	1,000
Naturalized	1,000	1,000	1,000	*	500
Non-U.S. citizen	2,000	1,000	2,000	*	*
Permanent resident	2,000	1,000	2,000	*	*
Temporary resident	1,000	1,000	1,000	S	S
Computer/information scientists	2,000	2,000	1,000	*	1,000
U.S. citizen	1,000	1,000	1,000	*	1,000
Native-born	1,000	1,000	1,000	*	500
Naturalized	1,000	1,000	500	S	500
Non-U.S. citizen	1,000	1,000	500	S	*
Permanent resident	1,000	1,000	*	S	S
Temporary resident	1,000	1,000	500	S	S
Mathematical scientists	1,000	500	500	S	500
U.S. citizen	1,000	500	500	S	500
Native-born	500	500	500	S	500
Naturalized	500	500	*	S	500
Non-U.S. citizen	500	500	500	S	S
Permanent resident	500	500	*	S	S
Temporary resident	500	500	500	S	S
Postsecondary teachers-computer/mathematical sciences	2,000	S	2,000	500	S
U.S. citizen	1,000	S	1,000	500	S
Native-born	1,000	S	1,000	500	S
Naturalized	1,000	S	1,000	*	S
Non-U.S. citizen	2,000	S	2,000	*	S
Permanent resident	2,000	S	2,000	S	S
Temporary resident	500	S	500	S	S
Physical/related scientists	2,000	1,000	1,000	500	1,000
U.S. citizen	2,000	1,000	1,000	500	1,000
Native-born	1,000	1,000	1,000	500	1,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Naturalized	1,000	1,000	500	*	500
Non-U.S. citizen	1,000	1,000	1,000	*	500
Permanent resident	1,000	1,000	1,000	*	*
Temporary resident	1,000	500	1,000	S	*
Chemists, except biochemists	1,000	1,000	1,000	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	1,000	500	S	500
Naturalized	1,000	500	500	S	500
Non-U.S. citizen	1,000	1,000	500	S	*
Permanent resident	1,000	500	500	S	S
Temporary resident	500	500	500	S	S
Earth/atmospheric/ocean scientists	1,000	500	500	S	500
U.S. citizen	1,000	500	500	S	500
Native-born	500	500	500	S	500
Naturalized	500	*	*	S	500
Non-U.S. citizen	500	500	500	S	S
Permanent resident	500	*	*	S	S
Temporary resident	500	*	500	S	S
Physicists/astronomers	1,000	1,000	1,000	S	500
U.S. citizen	1,000	500	500	S	500
Native-born	500	500	500	S	500
Naturalized	500	500	500	S	500
Non-U.S. citizen	500	500	500	S	*
Permanent resident	500	500	500	S	*
Temporary resident	500	500	500	S	*
Postsecondary teachers-physical/related sciences	1,000	S	1,000	500	S
U.S. citizen	1,000	S	1,000	500	S
Native-born	1,000	S	1,000	500	S
Naturalized	500	S	500	*	S
Non-U.S. citizen	1,000	S	1,000	*	S
Permanent resident	1,000	S	1,000	*	S
Temporary resident	500	S	500	S	S
Other physical/related scientists	1,000	500	1,000	S	500
U.S. citizen	1,000	500	500	S	500
Native-born	500	500	500	S	*
Naturalized	500	500	S	S	*
Non-U.S. citizen	500	500	500	S	S
Permanent resident	500	*	*	S	S
Temporary resident	500	S	*	S	S
Social/related scientists	2,000	1,000	2,000	1,000	1,000
U.S. citizen	2,000	1,000	2,000	1,000	1,000
Native-born	2,000	1,000	2,000	1,000	1,000
Naturalized	1,000	500	1,000	500	500
Non-U.S. citizen	1,000	500	1,000	*	*
Permanent resident	1,000	500	500	*	*
Temporary resident	500	500	500	S	S
Economists	500	500	500	S	500
U.S. citizen	500	500	500	S	500
Native-born	500	500	500	S	500
Naturalized	500	*	*	S	*
Non-U.S. citizen	500	500	*	S	*

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Permanent resident	500	*	*	S	*
Temporary resident	500	500	S	S	S
Political/related scientists	500	*	500	S	*
U.S. citizen	500	*	500	S	*
Native-born	500	*	500	S	*
Naturalized	*	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Postsecondary teachers-social/related sciences	2,000	*	2,000	1,000	S
U.S. citizen	2,000	*	2,000	1,000	S
Native-born	2,000	*	2,000	500	S
Naturalized	1,000	S	1,000	*	S
Non-U.S. citizen	500	S	500	*	S
Permanent resident	500	S	500	*	S
Temporary resident	500	S	500	S	S
Psychologists	1,000	1,000	1,000	1,000	500
U.S. citizen	1,000	1,000	500	1,000	500
Native-born	1,000	1,000	500	500	500
Naturalized	500	500	500	*	*
Non-U.S. citizen	500	*	500	S	S
Permanent resident	500	*	*	S	S
Temporary resident	*	S	*	S	S
Sociologists/anthropologists	1,000	1,000	500	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	1,000	500	S	500
Naturalized	*	S	*	S	S
Non-U.S. citizen	*	S	*	S	S
Permanent resident	*	S	S	S	S
Temporary resident	*	S	S	S	S
Other social/related scientists	1,000	1,000	500	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	500	500	S	500
Naturalized	500	*	*	S	*
Non-U.S. citizen	500	*	*	S	S
Permanent resident	*	*	S	S	S
Temporary resident	*	S	S	S	S
Engineers	2,000	2,000	1,000	*	1,000
U.S. citizen	2,000	2,000	1,000	*	500
Native-born	1,000	1,000	1,000	*	500
Naturalized	1,000	1,000	1,000	*	500
Non-U.S. citizen	1,000	1,000	1,000	S	*
Permanent resident	1,000	1,000	500	S	*
Temporary resident	1,000	500	500	S	*
Aerospace/aeronautical/astronautical engineers	1,000	1,000	*	S	500
U.S. citizen	1,000	1,000	*	S	500
Native-born	500	500	S	S	500
Naturalized	500	500	S	S	*
Non-U.S. citizen	*	*	S	S	S
Permanent resident	*	*	S	S	S
Temporary resident	S	S	S	S	S

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Chemical engineers	1,000	1,000	500	S	*
U.S. citizen	1,000	1,000	*	S	*
Native-born	500	500	*	S	*
Naturalized	500	500	S	S	S
Non-U.S. citizen	500	500	*	S	S
Permanent resident	500	500	S	S	S
Temporary resident	500	*	*	S	S
Civil/architectural/sanitary engineers	500	500	500	S	500
U.S. citizen	500	500	*	S	500
Native-born	500	500	*	S	*
Naturalized	500	500	S	S	*
Non-U.S. citizen	500	500	*	S	S
Permanent resident	500	500	S	S	S
Temporary resident	500	*	S	S	S
Electrical/computer hardware engineers	1,000	1,000	500	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	500	500	500	S	500
Naturalized	500	500	500	S	*
Non-U.S. citizen	500	500	500	S	S
Permanent resident	500	500	*	S	S
Temporary resident	500	500	*	S	S
Industrial engineers	1,000	1,000	*	S	S
U.S. citizen	1,000	1,000	*	S	S
Native-born	1,000	1,000	S	S	S
Naturalized	*	*	S	S	S
Non-U.S. citizen	*	*	S	S	S
Permanent resident	*	*	S	S	S
Temporary resident	S	S	S	S	S
Mechanical engineers	500	500	500	S	500
U.S. citizen	500	500	500	S	500
Native-born	500	500	*	S	*
Naturalized	500	500	*	S	*
Non-U.S. citizen	500	500	*	S	S
Permanent resident	500	500	S	S	S
Temporary resident	500	500	S	S	S
Postsecondary teachers-engineering	1,000	S	1,000	*	S
U.S. citizen	1,000	S	1,000	*	S
Native-born	1,000	S	1,000	*	S
Naturalized	500	S	500	*	S
Non-U.S. citizen	500	S	500	S	S
Permanent resident	500	S	500	S	S
Temporary resident	500	S	500	S	S
Other engineers	1,000	1,000	500	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	1,000	500	S	500
Naturalized	500	500	*	S	500
Non-U.S. citizen	1,000	500	500	S	S
Permanent resident	500	500	*	S	S
Temporary resident	500	500	500	S	S
S&E-related occupations	5,000	3,000	2,000	3,000	2,000

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
U.S. citizen	5,000	3,000	2,000	3,000	2,000
Native-born	4,000	3,000	1,000	3,000	500
Naturalized	2,000	1,000	1,000	500	1,000
Non-U.S. citizen	1,000	1,000	1,000	500	500
Permanent resident	1,000	1,000	500	500	500
Temporary resident	1,000	1,000	1,000	S	S
Health-related occupations	3,000	3,000	2,000	500	1,000
U.S. citizen	3,000	2,000	2,000	500	1,000
Native-born	3,000	2,000	1,000	500	500
Naturalized	2,000	1,000	1,000	S	1,000
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	500	S	S
Temporary resident	500	S	*	S	S
S&E managers	1,000	1,000	500	*	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	1,000	500	S	500
Naturalized	500	500	500	S	*
Non-U.S. citizen	500	500	*	S	S
Permanent resident	500	500	S	S	S
Temporary resident	500	*	S	S	S
S&E precollege teachers	3,000	S	S	3,000	S
U.S. citizen	3,000	S	S	3,000	S
Native-born	3,000	S	S	3,000	S
Naturalized	500	S	S	500	S
Non-U.S. citizen	500	S	S	500	S
Permanent resident	500	S	S	500	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	1,000	1,000	1,000	S	*
U.S. citizen	1,000	500	*	S	*
Native-born	500	500	*	S	*
Naturalized	500	500	S	S	*
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	1,000	*	1,000	S	S
Other S&E-related occupations	2,000	1,000	S	S	*
U.S. citizen	2,000	1,000	S	S	*
Native-born	1,000	1,000	S	S	S
Naturalized	*	S	S	S	S
Non-U.S. citizen	S	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	8,000	5,000	5,000	4,000	1,000
U.S. citizen	8,000	5,000	5,000	4,000	1,000
Native-born	7,000	5,000	5,000	4,000	1,000
Naturalized	2,000	2,000	1,000	500	500
Non-U.S. citizen	2,000	2,000	1,000	1,000	*
Permanent resident	2,000	2,000	1,000	1,000	*
Temporary resident	500	500	500	S	S
Art/humanities/related occupations	1,000	1,000	500	S	500
U.S. citizen	1,000	1,000	500	S	500
Native-born	1,000	1,000	500	S	500

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Naturalized	500	500	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Management-related occupations	4,000	2,000	3,000	1,000	1,000
U.S. citizen	3,000	2,000	3,000	1,000	1,000
Native-born	3,000	2,000	3,000	1,000	1,000
Naturalized	1,000	1,000	*	S	500
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	500	500	S	S	S
Non-S&E managers	4,000	2,000	2,000	3,000	1,000
U.S. citizen	4,000	2,000	2,000	3,000	1,000
Native-born	4,000	2,000	2,000	3,000	1,000
Naturalized	1,000	1,000	500	S	*
Non-U.S. citizen	1,000	1,000	500	S	S
Permanent resident	1,000	1,000	500	S	S
Temporary resident	*	*	S	S	S
Non-S&E postsecondary teachers	3,000	*	3,000	1,000	S
U.S. citizen	3,000	*	3,000	1,000	S
Native-born	3,000	S	3,000	1,000	S
Naturalized	1,000	S	1,000	500	S
Non-U.S. citizen	1,000	S	1,000	S	S
Permanent resident	1,000	S	500	S	S
Temporary resident	500	S	500	S	S
Non-S&E precollege/other teachers	2,000	500	S	2,000	S
U.S. citizen	2,000	500	S	2,000	S
Native-born	2,000	500	S	2,000	S
Naturalized	*	S	S	*	S
Non-U.S. citizen	1,000	S	S	1,000	S
Permanent resident	1,000	S	S	1,000	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	3,000	3,000	*	S	S
U.S. citizen	3,000	3,000	S	S	S
Native-born	3,000	3,000	S	S	S
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	*	*	S	S	S
Social services/related occupations	2,000	2,000	1,000	500	500
U.S. citizen	2,000	2,000	1,000	500	500
Native-born	2,000	2,000	1,000	500	500
Naturalized	500	500	S	S	S
Non-U.S. citizen	*	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	2,000	2,000	1,000	1,000	1,000
U.S. citizen	2,000	2,000	1,000	1,000	1,000
Native-born	2,000	1,000	1,000	1,000	1,000
Naturalized	1,000	1,000	*	S	500

TABLE A-17. Standard errors for employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2003

Level of highest degree, occupation and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	*	*	S	S	S

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

S&E = science and engineering.

^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. Business/industry includes self-employed individuals, nonprofit organizations, and other unspecified. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Government includes federal, state, and local employers. 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.