

TABLE 17. 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 <sup>a</sup>	18,021,000	12,477,000	1,505,000	1,896,000	2,142,000
U.S. citizen	16,980,000	11,671,000	1,346,000	1,864,000	2,099,000
Native-born	15,198,000	10,348,000	1,178,000	1,766,000	1,906,000
Naturalized	1,782,000	1,323,000	167,000	99,000	193,000
Non-U.S. citizen	1,041,000	806,000	160,000	32,000	43,000
Permanent resident	733,000	590,000	83,000	26,000	34,000
Temporary resident	308,000	217,000	77,000	6,000	9,000
S&E occupations	4,817,000	3,454,000	620,000	144,000	598,000
U.S. citizen	4,332,000	3,091,000	517,000	140,000	583,000
Native-born	3,794,000	2,695,000	451,000	131,000	517,000
Naturalized	537,000	396,000	66,000	9,000	66,000
Non-U.S. citizen	485,000	363,000	103,000	4,000	15,000
Permanent resident	293,000	236,000	44,000	3,000	9,000
Temporary resident	192,000	127,000	59,000	1,000	6,000
Scientists	3,262,000	2,181,000	552,000	139,000	390,000
U.S. citizen	2,893,000	1,916,000	465,000	135,000	378,000
Native-born	2,553,000	1,674,000	410,000	126,000	344,000
Naturalized	340,000	242,000	55,000	9,000	34,000
Non-U.S. citizen	369,000	265,000	87,000	4,000	12,000
Permanent resident	227,000	176,000	41,000	3,000	7,000
Temporary resident	142,000	89,000	47,000	1,000	5,000
Biological/agricultural/other life scientists	444,000	154,000	189,000	11,000	90,000
U.S. citizen	386,000	138,000	152,000	10,000	86,000
Native-born	342,000	121,000	132,000	10,000	79,000
Naturalized	45,000	17,000	21,000	1,000	6,000
Non-U.S. citizen	58,000	16,000	36,000	*	4,000
Permanent resident	33,000	12,000	18,000	S	2,000
Temporary resident	25,000	4,000	19,000	S	2,000
Agricultural/food scientists	48,000	25,000	12,000	S	11,000
U.S. citizen	43,000	23,000	9,000	S	11,000
Native-born	41,000	22,000	9,000	S	11,000
Naturalized	2,000	1,000	*	S	1,000
Non-U.S. citizen	5,000	2,000	3,000	S	S
Permanent resident	3,000	2,000	2,000	S	S
Temporary resident	2,000	*	2,000	S	S
Biological/medical scientists	298,000	114,000	126,000	*	57,000
U.S. citizen	252,000	101,000	98,000	*	53,000
Native-born	216,000	85,000	83,000	*	47,000
Naturalized	36,000	16,000	15,000	S	5,000
Non-U.S. citizen	47,000	14,000	29,000	S	4,000
Permanent resident	26,000	10,000	14,000	S	2,000
Temporary resident	20,000	3,000	14,000	S	2,000
Environmental life scientists	39,000	15,000	3,000	S	22,000
U.S. citizen	39,000	14,000	3,000	S	22,000
Native-born	37,000	14,000	2,000	S	21,000
Naturalized	2,000	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	57,000	S	47,000	10,000	S
U.S. citizen	52,000	S	42,000	10,000	S
Native-born	48,000	S	38,000	9,000	S
Naturalized	5,000	S	4,000	1,000	S
Non-U.S. citizen	5,000	S	4,000	*	S
Permanent resident	2,000	S	2,000	S	S
Temporary resident	3,000	S	3,000	S	S

TABLE 17. 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/mathematical scientists	2,008,000	1,621,000	154,000	61,000	172,000
U.S. citizen	1,755,000	1,400,000	129,000	59,000	167,000
Native-born	1,521,000	1,208,000	112,000	55,000	146,000
Naturalized	234,000	192,000	17,000	4,000	21,000
Non-U.S. citizen	253,000	221,000	25,000	2,000	5,000
Permanent resident	162,000	145,000	12,000	2,000	4,000
Temporary resident	91,000	76,000	13,000	S	2,000
Computer/information scientists	1,849,000	1,582,000	88,000	28,000	152,000
U.S. citizen	1,613,000	1,364,000	74,000	28,000	147,000
Native-born	1,396,000	1,176,000	66,000	26,000	128,000
Naturalized	217,000	189,000	8,000	2,000	19,000
Non-U.S. citizen	236,000	217,000	13,000	S	5,000
Permanent resident	152,000	143,000	5,000	S	3,000
Temporary resident	84,000	74,000	8,000	S	2,000
Mathematical scientists	67,000	38,000	8,000	1,000	20,000
U.S. citizen	62,000	34,000	6,000	1,000	20,000
Native-born	55,000	31,000	5,000	1,000	18,000
Naturalized	6,000	3,000	1,000	S	2,000
Non-U.S. citizen	6,000	3,000	2,000	S	*
Permanent resident	2,000	2,000	1,000	S	S
Temporary resident	3,000	2,000	1,000	S	S
Postsecondary teachers-computer/mathematical sciences	92,000	1,000	59,000	32,000	S
U.S. citizen	81,000	1,000	49,000	30,000	S
Native-born	70,000	1,000	40,000	28,000	S
Naturalized	11,000	S	9,000	2,000	S
Non-U.S. citizen	12,000	S	10,000	2,000	S
Permanent resident	7,000	S	6,000	1,000	S
Temporary resident	4,000	S	4,000	S	S
Physical/related scientists	315,000	174,000	80,000	7,000	53,000
U.S. citizen	285,000	161,000	65,000	7,000	52,000
Native-born	251,000	140,000	57,000	6,000	48,000
Naturalized	34,000	21,000	8,000	1,000	4,000
Non-U.S. citizen	31,000	14,000	15,000	*	1,000
Permanent resident	17,000	10,000	6,000	*	*
Temporary resident	14,000	4,000	9,000	S	1,000
Chemists, except biochemists	124,000	100,000	12,000	S	13,000
U.S. citizen	111,000	90,000	8,000	S	12,000
Native-born	92,000	74,000	7,000	S	11,000
Naturalized	19,000	16,000	1,000	S	2,000
Non-U.S. citizen	13,000	9,000	3,000	S	*
Permanent resident	8,000	7,000	1,000	S	*
Temporary resident	5,000	2,000	2,000	S	S
Earth/atmospheric/ocean scientists	71,000	43,000	8,000	S	20,000
U.S. citizen	68,000	42,000	7,000	S	19,000
Native-born	65,000	41,000	7,000	S	18,000
Naturalized	3,000	1,000	*	S	1,000
Non-U.S. citizen	3,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	2,000	*	1,000	S	S
Physicists/astronomers	31,000	14,000	11,000	S	5,000
U.S. citizen	25,000	12,000	8,000	S	5,000
Native-born	21,000	10,000	7,000	S	4,000
Naturalized	4,000	2,000	1,000	S	1,000
Non-U.S. citizen	6,000	2,000	4,000	S	*
Permanent resident	2,000	1,000	1,000	S	*

TABLE 17. 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
Temporary resident	4,000	1,000	3,000	S	*
Postsecondary teachers-physical/related sciences	52,000	*	44,000	7,000	S
U.S. citizen	45,000	S	38,000	7,000	S
Native-born	39,000	S	33,000	6,000	S
Naturalized	6,000	S	5,000	1,000	S
Non-U.S. citizen	7,000	S	6,000	*	S
Permanent resident	3,000	S	3,000	*	S
Temporary resident	3,000	S	3,000	S	S
Other physical/related scientists	37,000	17,000	4,000	S	16,000
U.S. citizen	35,000	16,000	4,000	S	16,000
Native-born	33,000	15,000	3,000	S	15,000
Naturalized	2,000	1,000	S	S	1,000
Non-U.S. citizen	2,000	2,000	1,000	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	1,000	*	1,000	S	S
Social/related scientists	495,000	231,000	129,000	59,000	74,000
U.S. citizen	467,000	217,000	119,000	58,000	73,000
Native-born	440,000	205,000	110,000	55,000	71,000
Naturalized	27,000	13,000	9,000	3,000	2,000
Non-U.S. citizen	27,000	14,000	10,000	1,000	1,000
Permanent resident	16,000	9,000	5,000	1,000	1,000
Temporary resident	11,000	5,000	5,000	S	*
Economists	35,000	19,000	4,000	S	11,000
U.S. citizen	30,000	16,000	3,000	S	11,000
Native-born	28,000	15,000	3,000	S	10,000
Naturalized	2,000	1,000	*	S	*
Non-U.S. citizen	5,000	3,000	1,000	S	*
Permanent resident	2,000	1,000	*	S	*
Temporary resident	3,000	2,000	1,000	S	*
Political/related scientists	14,000	7,000	1,000	S	6,000
U.S. citizen	14,000	6,000	1,000	S	6,000
Native-born	13,000	6,000	1,000	S	6,000
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	106,000	1,000	85,000	19,000	*
U.S. citizen	97,000	1,000	78,000	18,000	*
Native-born	90,000	1,000	70,000	18,000	*
Naturalized	8,000	S	7,000	1,000	S
Non-U.S. citizen	8,000	S	8,000	1,000	S
Permanent resident	5,000	S	4,000	*	S
Temporary resident	4,000	S	4,000	S	S
Psychologists	181,000	98,000	23,000	40,000	20,000
U.S. citizen	177,000	96,000	22,000	39,000	20,000
Native-born	168,000	91,000	21,000	37,000	19,000
Naturalized	9,000	5,000	1,000	2,000	1,000
Non-U.S. citizen	4,000	3,000	1,000	S	S
Permanent resident	3,000	2,000	*	S	S
Temporary resident	1,000	1,000	*	S	S
Sociologists/anthropologists	22,000	11,000	6,000	S	4,000
U.S. citizen	21,000	11,000	6,000	S	4,000
Native-born	21,000	10,000	6,000	S	4,000
Naturalized	1,000	1,000	*	S	S
Non-U.S. citizen	1,000	S	*	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
Permanent resident	*	S	S	S	S
Temporary resident	*	S	S	S	S
Other social/related scientists	138,000	95,000	9,000	1,000	33,000
U.S. citizen	128,000	87,000	9,000	*	32,000
Native-born	121,000	81,000	8,000	*	31,000
Naturalized	7,000	6,000	*	S	1,000
Non-U.S. citizen	9,000	8,000	*	S	S
Permanent resident	7,000	5,000	S	S	S
Temporary resident	3,000	2,000	*	S	S
Engineers	1,555,000	1,273,000	68,000	6,000	208,000
U.S. citizen	1,438,000	1,175,000	52,000	5,000	205,000
Native-born	1,241,000	1,021,000	42,000	5,000	173,000
Naturalized	197,000	154,000	11,000	1,000	32,000
Non-U.S. citizen	117,000	98,000	16,000	S	2,000
Permanent resident	67,000	61,000	4,000	S	2,000
Temporary resident	50,000	38,000	12,000	S	*
Aerospace/aeronautical/astronautical engineers	95,000	75,000	2,000	S	18,000
U.S. citizen	93,000	73,000	2,000	S	18,000
Native-born	82,000	63,000	1,000	S	16,000
Naturalized	11,000	10,000	*	S	1,000
Non-U.S. citizen	2,000	2,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	*	*	*	S	S
Chemical engineers	75,000	67,000	3,000	S	5,000
U.S. citizen	68,000	61,000	1,000	S	5,000
Native-born	57,000	52,000	1,000	S	4,000
Naturalized	11,000	10,000	S	S	1,000
Non-U.S. citizen	7,000	5,000	1,000	S	S
Permanent resident	4,000	4,000	S	S	S
Temporary resident	3,000	2,000	1,000	S	S
Civil/architectural/sanitary engineers	247,000	163,000	2,000	S	82,000
U.S. citizen	235,000	153,000	2,000	S	80,000
Native-born	201,000	136,000	1,000	S	64,000
Naturalized	34,000	17,000	*	S	17,000
Non-U.S. citizen	12,000	10,000	1,000	S	2,000
Permanent resident	8,000	6,000	*	S	2,000
Temporary resident	5,000	4,000	1,000	S	S
Electrical/computer hardware engineers	367,000	325,000	11,000	S	31,000
U.S. citizen	322,000	284,000	7,000	S	31,000
Native-born	255,000	224,000	6,000	S	26,000
Naturalized	67,000	60,000	2,000	S	5,000
Non-U.S. citizen	45,000	42,000	4,000	S	*
Permanent resident	26,000	26,000	*	S	S
Temporary resident	19,000	16,000	3,000	S	S
Industrial engineers	86,000	80,000	1,000	S	4,000
U.S. citizen	79,000	74,000	1,000	S	4,000
Native-born	72,000	68,000	1,000	S	4,000
Naturalized	7,000	6,000	S	S	1,000
Non-U.S. citizen	6,000	6,000	*	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	4,000	3,000	S	S	S
Mechanical engineers	272,000	246,000	8,000	S	17,000
U.S. citizen	254,000	230,000	7,000	S	17,000
Native-born	224,000	203,000	6,000	S	15,000
Naturalized	30,000	27,000	1,000	S	3,000

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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
Non-U.S. citizen	18,000	16,000	2,000	S	S
Permanent resident	11,000	10,000	*	S	S
Temporary resident	7,000	6,000	1,000	S	S
Postsecondary teachers-engineering	33,000	S	29,000	4,000	S
U.S. citizen	27,000	S	23,000	4,000	S
Native-born	21,000	S	17,000	3,000	S
Naturalized	7,000	S	6,000	*	S
Non-U.S. citizen	6,000	S	5,000	S	S
Permanent resident	2,000	S	2,000	S	S
Temporary resident	3,000	S	3,000	S	S
Other engineers	380,000	317,000	13,000	S	50,000
U.S. citizen	359,000	299,000	10,000	S	50,000
Native-born	329,000	275,000	8,000	S	45,000
Naturalized	31,000	24,000	2,000	S	5,000
Non-U.S. citizen	20,000	17,000	3,000	S	*
Permanent resident	12,000	11,000	*	S	*
Temporary resident	8,000	6,000	2,000	S	S
S&E-related occupations	5,331,000	3,473,000	539,000	854,000	465,000
U.S. citizen	5,115,000	3,314,000	501,000	844,000	455,000
Native-born	4,529,000	2,889,000	427,000	809,000	405,000
Naturalized	586,000	425,000	74,000	36,000	51,000
Non-U.S. citizen	216,000	158,000	38,000	10,000	10,000
Permanent resident	168,000	127,000	25,000	8,000	9,000
Temporary resident	48,000	32,000	13,000	2,000	1,000
Health-related occupations	3,515,000	2,573,000	478,000	135,000	329,000
U.S. citizen	3,374,000	2,475,000	445,000	133,000	321,000
Native-born	2,941,000	2,154,000	379,000	127,000	281,000
Naturalized	433,000	321,000	66,000	6,000	40,000
Non-U.S. citizen	141,000	98,000	33,000	2,000	8,000
Permanent resident	114,000	82,000	23,000	2,000	7,000
Temporary resident	27,000	16,000	10,000	S	S
S&E managers	386,000	303,000	22,000	3,000	58,000
U.S. citizen	372,000	290,000	21,000	3,000	57,000
Native-born	339,000	265,000	18,000	3,000	53,000
Naturalized	32,000	25,000	3,000	S	4,000
Non-U.S. citizen	14,000	13,000	*	S	S
Permanent resident	10,000	9,000	S	S	S
Temporary resident	4,000	4,000	S	S	S
S&E precollege teachers	716,000	4,000	S	709,000	2,000
U.S. citizen	708,000	4,000	S	701,000	2,000
Native-born	679,000	4,000	S	672,000	2,000
Naturalized	29,000	S	S	29,000	S
Non-U.S. citizen	8,000	S	S	8,000	S
Permanent resident	6,000	S	S	6,000	S
Temporary resident	2,000	S	S	2,000	S
S&E technicians/technologists	500,000	395,000	36,000	6,000	64,000
U.S. citizen	458,000	358,000	31,000	6,000	63,000
Native-born	391,000	302,000	26,000	5,000	58,000
Naturalized	66,000	56,000	5,000	S	5,000
Non-U.S. citizen	42,000	36,000	5,000	S	1,000
Permanent resident	30,000	27,000	2,000	S	1,000
Temporary resident	12,000	9,000	3,000	S	S
Other S&E-related occupations	214,000	197,000	3,000	1,000	12,000
U.S. citizen	203,000	187,000	3,000	1,000	12,000
Native-born	178,000	164,000	3,000	S	10,000

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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	25,000	23,000	S	S	2,000
Non-U.S. citizen	11,000	11,000	S	S	S
Permanent resident	8,000	8,000	S	S	S
Temporary resident	3,000	3,000	S	S	S
Non-S&E occupations	7,873,000	5,551,000	346,000	898,000	1,079,000
U.S. citizen	7,533,000	5,266,000	327,000	880,000	1,061,000
Native-born	6,875,000	4,764,000	300,000	826,000	984,000
Naturalized	659,000	501,000	27,000	54,000	76,000
Non-U.S. citizen	340,000	285,000	19,000	18,000	18,000
Permanent resident	271,000	227,000	13,000	15,000	16,000
Temporary resident	69,000	58,000	6,000	3,000	2,000
Art/humanities/related occupations	248,000	221,000	11,000	2,000	14,000
U.S. citizen	236,000	211,000	11,000	2,000	12,000
Native-born	222,000	199,000	10,000	2,000	11,000
Naturalized	14,000	12,000	1,000	S	1,000
Non-U.S. citizen	11,000	10,000	S	S	S
Permanent resident	9,000	7,000	S	S	S
Temporary resident	2,000	S	S	S	S
Management-related occupations	1,310,000	1,058,000	49,000	23,000	181,000
U.S. citizen	1,251,000	1,005,000	46,000	23,000	177,000
Native-born	1,107,000	882,000	42,000	20,000	163,000
Naturalized	144,000	123,000	4,000	2,000	15,000
Non-U.S. citizen	59,000	53,000	3,000	S	3,000
Permanent resident	43,000	38,000	2,000	S	3,000
Temporary resident	16,000	16,000	S	S	S
Non-S&E managers	922,000	680,000	47,000	91,000	103,000
U.S. citizen	888,000	649,000	47,000	91,000	102,000
Native-born	823,000	594,000	44,000	89,000	97,000
Naturalized	65,000	55,000	3,000	2,000	4,000
Non-U.S. citizen	34,000	30,000	1,000	S	2,000
Permanent resident	27,000	24,000	1,000	S	S
Temporary resident	7,000	6,000	S	S	S
Non-S&E postsecondary teachers	140,000	3,000	102,000	29,000	6,000
U.S. citizen	131,000	2,000	94,000	28,000	6,000
Native-born	117,000	2,000	83,000	26,000	6,000
Naturalized	14,000	S	11,000	2,000	S
Non-U.S. citizen	9,000	S	8,000	1,000	S
Permanent resident	5,000	S	4,000	1,000	S
Temporary resident	4,000	S	3,000	S	S
Non-S&E precollege/other teachers	600,000	26,000	3,000	566,000	5,000
U.S. citizen	586,000	25,000	2,000	554,000	5,000
Native-born	550,000	23,000	2,000	519,000	5,000
Naturalized	37,000	1,000	S	35,000	S
Non-U.S. citizen	14,000	2,000	S	11,000	S
Permanent resident	11,000	2,000	S	9,000	S
Temporary resident	2,000	S	S	2,000	S
Sales/marketing occupations	1,322,000	1,304,000	6,000	S	11,000
U.S. citizen	1,263,000	1,245,000	6,000	S	11,000
Native-born	1,152,000	1,134,000	6,000	S	11,000
Naturalized	111,000	110,000	S	S	S
Non-U.S. citizen	59,000	59,000	S	S	S
Permanent resident	51,000	50,000	S	S	S
Temporary resident	8,000	8,000	S	S	S
Social services/related occupations	621,000	313,000	33,000	100,000	175,000
U.S. citizen	604,000	302,000	31,000	99,000	171,000

TABLE 17. 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	564,000	284,000	29,000	94,000	156,000
Naturalized	39,000	18,000	2,000	5,000	14,000
Non-U.S. citizen	17,000	11,000	1,000	S	4,000
Permanent resident	15,000	10,000	S	S	4,000
Temporary resident	2,000	1,000	S	S	S
Other non-S&E occupations	2,711,000	1,946,000	95,000	86,000	584,000
U.S. citizen	2,574,000	1,827,000	89,000	82,000	576,000
Native-born	2,340,000	1,647,000	83,000	75,000	536,000
Naturalized	234,000	181,000	6,000	7,000	40,000
Non-U.S. citizen	137,000	119,000	6,000	4,000	8,000
Permanent resident	110,000	94,000	6,000	4,000	6,000
Temporary resident	27,000	24,000	1,000	S	S
Bachelor's degrees, all occupations	10,490,000	7,801,000	566,000	841,000	1,281,000
U.S. citizen	10,005,000	7,390,000	529,000	826,000	1,259,000
Native-born	9,074,000	6,662,000	473,000	778,000	1,161,000
Naturalized	931,000	728,000	56,000	48,000	99,000
Non-U.S. citizen	485,000	411,000	37,000	15,000	21,000
Permanent resident	366,000	313,000	23,000	12,000	18,000
Temporary resident	119,000	99,000	14,000	4,000	3,000
S&E occupations	2,786,000	2,204,000	184,000	41,000	358,000
U.S. citizen	2,620,000	2,058,000	169,000	40,000	353,000
Native-born	2,373,000	1,861,000	157,000	37,000	319,000
Naturalized	246,000	197,000	11,000	3,000	34,000
Non-U.S. citizen	167,000	146,000	16,000	S	5,000
Permanent resident	107,000	97,000	5,000	S	3,000
Temporary resident	60,000	48,000	10,000	S	2,000
Scientists	1,777,000	1,358,000	165,000	38,000	216,000
U.S. citizen	1,653,000	1,252,000	152,000	37,000	213,000
Native-born	1,502,000	1,130,000	142,000	34,000	197,000
Naturalized	151,000	122,000	10,000	3,000	16,000
Non-U.S. citizen	123,000	106,000	13,000	S	4,000
Permanent resident	82,000	74,000	5,000	S	2,000
Temporary resident	42,000	32,000	8,000	S	2,000
Biological/agricultural/other life scientists	182,000	77,000	58,000	1,000	46,000
U.S. citizen	173,000	74,000	52,000	1,000	45,000
Native-born	162,000	70,000	49,000	1,000	43,000
Naturalized	11,000	5,000	4,000	S	2,000
Non-U.S. citizen	9,000	2,000	6,000	S	S
Permanent resident	5,000	2,000	3,000	S	S
Temporary resident	3,000	S	3,000	S	S
Agricultural/food scientists	26,000	15,000	3,000	S	8,000
U.S. citizen	24,000	14,000	2,000	S	8,000
Native-born	24,000	14,000	2,000	S	7,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	2,000	S	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Biological/medical scientists	118,000	50,000	45,000	S	23,000
U.S. citizen	113,000	48,000	42,000	S	22,000
Native-born	104,000	44,000	40,000	S	21,000
Naturalized	8,000	5,000	2,000	S	2,000
Non-U.S. citizen	5,000	1,000	4,000	S	S
Permanent resident	4,000	1,000	2,000	S	S
Temporary resident	2,000	S	1,000	S	S
Environmental life scientists	29,000	12,000	S	S	15,000

TABLE 17. 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	28,000	11,000	S	S	15,000
Native-born	27,000	11,000	S	S	15,000
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	9,000	S	8,000	S	S
U.S. citizen	8,000	S	7,000	S	S
Native-born	8,000	S	7,000	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	1,332,000	1,119,000	66,000	32,000	116,000
U.S. citizen	1,230,000	1,023,000	62,000	31,000	114,000
Native-born	1,104,000	916,000	57,000	29,000	101,000
Naturalized	126,000	107,000	5,000	2,000	12,000
Non-U.S. citizen	102,000	96,000	4,000	S	2,000
Permanent resident	69,000	65,000	2,000	S	2,000
Temporary resident	33,000	30,000	2,000	S	S
Computer/information scientists	1,282,000	1,102,000	55,000	20,000	105,000
U.S. citizen	1,181,000	1,006,000	51,000	20,000	103,000
Native-born	1,057,000	900,000	47,000	19,000	91,000
Naturalized	124,000	107,000	4,000	2,000	12,000
Non-U.S. citizen	102,000	95,000	4,000	S	2,000
Permanent resident	69,000	65,000	2,000	S	2,000
Temporary resident	33,000	30,000	2,000	S	S
Mathematical scientists	29,000	16,000	2,000	S	10,000
U.S. citizen	29,000	16,000	2,000	S	10,000
Native-born	28,000	16,000	2,000	S	10,000
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	21,000	S	9,000	11,000	S
U.S. citizen	21,000	S	9,000	11,000	S
Native-born	19,000	S	8,000	10,000	S
Naturalized	2,000	S	S	1,000	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	139,000	89,000	23,000	S	27,000
U.S. citizen	133,000	86,000	20,000	S	27,000
Native-born	124,000	78,000	19,000	S	26,000
Naturalized	10,000	8,000	1,000	S	S
Non-U.S. citizen	6,000	3,000	3,000	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	3,000	S	2,000	S	S
Chemists, except biochemists	69,000	57,000	5,000	S	6,000
U.S. citizen	66,000	55,000	5,000	S	6,000
Native-born	59,000	48,000	5,000	S	6,000
Naturalized	7,000	7,000	S	S	S
Non-U.S. citizen	3,000	2,000	S	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	S	S	S	S	S

TABLE 17. 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
Earth/atmospheric/ocean scientists	33,000	20,000	3,000	S	11,000
U.S. citizen	33,000	20,000	3,000	S	10,000
Native-born	32,000	20,000	3,000	S	10,000
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	5,000	2,000	3,000	S	*
U.S. citizen	4,000	2,000	2,000	S	*
Native-born	4,000	2,000	2,000	S	*
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
Postsecondary teachers-physical/related sciences	10,000	S	9,000	S	S
U.S. citizen	9,000	S	8,000	S	S
Native-born	8,000	S	7,000	S	S
Naturalized	1,000	S	1,000	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	22,000	10,000	3,000	S	10,000
U.S. citizen	22,000	9,000	3,000	S	10,000
Native-born	21,000	8,000	S	S	10,000
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	123,000	74,000	18,000	4,000	27,000
U.S. citizen	117,000	69,000	17,000	4,000	27,000
Native-born	113,000	66,000	17,000	4,000	26,000
Naturalized	4,000	3,000	S	S	S
Non-U.S. citizen	6,000	6,000	S	S	S
Permanent resident	4,000	4,000	S	S	S
Temporary resident	2,000	S	S	S	S
Economists	9,000	6,000	1,000	S	2,000
U.S. citizen	8,000	5,000	1,000	S	2,000
Native-born	8,000	5,000	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
Political/related scientists	9,000	5,000	S	S	3,000
U.S. citizen	8,000	5,000	S	S	3,000
Native-born	8,000	5,000	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
Postsecondary teachers-social/related sciences	9,000	S	5,000	3,000	S
U.S. citizen	9,000	S	5,000	3,000	S
Native-born	9,000	S	5,000	3,000	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

TABLE 17. 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
Psychologists	14,000	6,000	5,000	1,000	2,000
U.S. citizen	13,000	5,000	5,000	1,000	2,000
Native-born	12,000	5,000	4,000	S	2,000
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	9,000	5,000	1,000	S	2,000
U.S. citizen	9,000	5,000	1,000	S	2,000
Native-born	8,000	5,000	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
Other social/related scientists	74,000	52,000	5,000	S	18,000
U.S. citizen	70,000	47,000	5,000	S	18,000
Native-born	67,000	46,000	5,000	S	17,000
Naturalized	2,000	2,000	S	S	S
Non-U.S. citizen	4,000	4,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	S	S	S	S	S
Engineers	1,010,000	846,000	19,000	3,000	142,000
U.S. citizen	966,000	806,000	16,000	3,000	141,000
Native-born	871,000	731,000	15,000	3,000	122,000
Naturalized	95,000	75,000	1,000	S	18,000
Non-U.S. citizen	43,000	39,000	3,000	S	1,000
Permanent resident	25,000	23,000	*	S	1,000
Temporary resident	19,000	16,000	2,000	S	S
Aerospace/aeronautical/astronautical engineers	53,000	43,000	*	S	9,000
U.S. citizen	53,000	42,000	*	S	9,000
Native-born	48,000	38,000	*	S	8,000
Naturalized	5,000	4,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	S	S	S
Permanent resident	S	S	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	45,000	39,000	1,000	S	4,000
U.S. citizen	43,000	38,000	1,000	S	4,000
Native-born	39,000	34,000	1,000	S	4,000
Naturalized	4,000	4,000	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
Civil/architectural/sanitary engineers	174,000	112,000	1,000	S	61,000
U.S. citizen	169,000	108,000	1,000	S	60,000
Native-born	151,000	100,000	1,000	S	51,000
Naturalized	17,000	8,000	S	S	9,000
Non-U.S. citizen	5,000	4,000	S	S	1,000
Permanent resident	4,000	3,000	S	S	1,000
Temporary resident	1,000	1,000	S	S	S
Electrical/computer hardware engineers	229,000	205,000	3,000	S	20,000
U.S. citizen	210,000	187,000	3,000	S	20,000
Native-born	175,000	156,000	3,000	S	16,000
Naturalized	35,000	30,000	S	S	4,000
Non-U.S. citizen	19,000	18,000	S	S	S
Permanent resident	10,000	10,000	S	S	S

TABLE 17. 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
Temporary resident	9,000	8,000	S	S	S
Industrial engineers	60,000	58,000	1,000	S	2,000
U.S. citizen	58,000	55,000	1,000	S	2,000
Native-born	53,000	51,000	1,000	S	2,000
Naturalized	5,000	5,000	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	1,000	S	S	S
Mechanical engineers	188,000	173,000	4,000	S	11,000
U.S. citizen	181,000	166,000	4,000	S	11,000
Native-born	166,000	152,000	4,000	S	10,000
Naturalized	15,000	14,000	S	S	2,000
Non-U.S. citizen	7,000	6,000	S	S	S
Permanent resident	5,000	5,000	S	S	S
Temporary resident	2,000	2,000	S	S	S
Postsecondary teachers-engineering	5,000	S	4,000	2,000	S
U.S. citizen	4,000	S	3,000	2,000	S
Native-born	4,000	S	2,000	2,000	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	255,000	216,000	5,000	S	33,000
U.S. citizen	248,000	210,000	5,000	S	33,000
Native-born	235,000	199,000	4,000	S	31,000
Naturalized	14,000	11,000	S	S	2,000
Non-U.S. citizen	6,000	6,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	3,000	3,000	S	S	S
S&E-related occupations	2,956,000	1,990,000	258,000	417,000	291,000
U.S. citizen	2,838,000	1,897,000	243,000	412,000	286,000
Native-born	2,550,000	1,685,000	208,000	396,000	262,000
Naturalized	288,000	212,000	35,000	16,000	24,000
Non-U.S. citizen	118,000	93,000	14,000	5,000	5,000
Permanent resident	97,000	76,000	12,000	4,000	5,000
Temporary resident	21,000	18,000	2,000	S	S
Health-related occupations	1,829,000	1,350,000	221,000	56,000	203,000
U.S. citizen	1,753,000	1,292,000	208,000	55,000	198,000
Native-born	1,552,000	1,144,000	177,000	51,000	180,000
Naturalized	200,000	148,000	31,000	4,000	17,000
Non-U.S. citizen	76,000	58,000	13,000	S	5,000
Permanent resident	65,000	49,000	11,000	S	5,000
Temporary resident	11,000	9,000	S	S	S
S&E managers	219,000	184,000	8,000	S	26,000
U.S. citizen	212,000	177,000	8,000	S	26,000
Native-born	199,000	167,000	6,000	S	24,000
Naturalized	14,000	10,000	S	S	2,000
Non-U.S. citizen	7,000	7,000	S	S	S
Permanent resident	4,000	4,000	S	S	S
Temporary resident	3,000	3,000	S	S	S
S&E precollege teachers	357,000	S	S	355,000	S
U.S. citizen	353,000	S	S	351,000	S
Native-born	342,000	S	S	339,000	S
Naturalized	11,000	S	S	11,000	S
Non-U.S. citizen	4,000	S	S	4,000	S

TABLE 17. 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	3,000	S	S	3,000	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	401,000	318,000	26,000	3,000	54,000
U.S. citizen	376,000	296,000	24,000	3,000	53,000
Native-born	331,000	257,000	22,000	3,000	50,000
Naturalized	45,000	39,000	3,000	S	4,000
Non-U.S. citizen	25,000	23,000	2,000	S	S
Permanent resident	20,000	18,000	1,000	S	S
Temporary resident	5,000	4,000	S	S	S
Other S&E-related occupations	149,000	137,000	3,000	S	8,000
U.S. citizen	143,000	131,000	3,000	S	8,000
Native-born	126,000	116,000	3,000	S	6,000
Naturalized	17,000	15,000	S	S	1,000
Non-U.S. citizen	6,000	6,000	S	S	S
Permanent resident	5,000	5,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E occupations	4,747,000	3,607,000	125,000	384,000	631,000
U.S. citizen	4,547,000	3,435,000	118,000	374,000	620,000
Native-born	4,150,000	3,116,000	108,000	346,000	580,000
Naturalized	397,000	319,000	10,000	29,000	40,000
Non-U.S. citizen	200,000	172,000	7,000	10,000	11,000
Permanent resident	162,000	140,000	6,000	7,000	9,000
Temporary resident	38,000	33,000	1,000	2,000	S
Art/humanities/related occupations	160,000	145,000	5,000	1,000	8,000
U.S. citizen	155,000	141,000	5,000	1,000	8,000
Native-born	146,000	132,000	5,000	1,000	8,000
Naturalized	9,000	8,000	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	S	S	S	S	S
Management-related occupations	793,000	663,000	25,000	11,000	95,000
U.S. citizen	769,000	640,000	24,000	11,000	94,000
Native-born	683,000	562,000	21,000	10,000	89,000
Naturalized	86,000	78,000	2,000	S	5,000
Non-U.S. citizen	25,000	23,000	S	S	S
Permanent resident	18,000	16,000	S	S	S
Temporary resident	7,000	7,000	S	S	S
Non-S&E managers	456,000	392,000	4,000	13,000	47,000
U.S. citizen	437,000	375,000	4,000	13,000	45,000
Native-born	409,000	349,000	4,000	12,000	44,000
Naturalized	28,000	26,000	S	S	S
Non-U.S. citizen	19,000	17,000	S	S	S
Permanent resident	16,000	14,000	S	S	S
Temporary resident	S	S	S	S	S
Non-S&E postsecondary teachers	26,000	2,000	16,000	5,000	2,000
U.S. citizen	24,000	2,000	15,000	5,000	S
Native-born	21,000	2,000	12,000	5,000	S
Naturalized	4,000	S	3,000	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	304,000	15,000	1,000	285,000	3,000
U.S. citizen	297,000	14,000	1,000	279,000	3,000
Native-born	275,000	14,000	1,000	257,000	2,000
Naturalized	22,000	S	S	22,000	S

TABLE 17. 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	7,000	S	S	6,000	S
Permanent resident	5,000	S	S	4,000	S
Temporary resident	2,000	S	S	S	S
Sales/marketing occupations	980,000	965,000	6,000	S	9,000
U.S. citizen	943,000	928,000	6,000	S	9,000
Native-born	872,000	857,000	6,000	S	9,000
Naturalized	71,000	71,000	S	S	S
Non-U.S. citizen	37,000	37,000	S	S	S
Permanent resident	32,000	32,000	S	S	S
Temporary resident	5,000	5,000	S	S	S
Social services/related occupations	240,000	117,000	12,000	16,000	95,000
U.S. citizen	230,000	110,000	12,000	15,000	93,000
Native-born	214,000	102,000	12,000	14,000	87,000
Naturalized	16,000	8,000	S	S	6,000
Non-U.S. citizen	10,000	7,000	S	S	3,000
Permanent resident	9,000	6,000	S	S	3,000
Temporary resident	1,000	S	S	S	S
Other non-S&E occupations	1,789,000	1,309,000	55,000	51,000	372,000
U.S. citizen	1,693,000	1,226,000	52,000	49,000	367,000
Native-born	1,531,000	1,098,000	48,000	45,000	340,000
Naturalized	162,000	128,000	3,000	4,000	27,000
Non-U.S. citizen	96,000	84,000	4,000	S	6,000
Permanent resident	76,000	66,000	4,000	S	5,000
Temporary resident	20,000	18,000	S	S	S
Master's degrees, all occupations	4,979,000	3,026,000	370,000	976,000	607,000
U.S. citizen	4,625,000	2,740,000	328,000	964,000	594,000
Native-born	4,126,000	2,375,000	300,000	922,000	530,000
Naturalized	499,000	365,000	28,000	42,000	64,000
Non-U.S. citizen	354,000	286,000	42,000	12,000	13,000
Permanent resident	230,000	195,000	13,000	11,000	11,000
Temporary resident	124,000	91,000	29,000	2,000	2,000
S&E occupations	1,424,000	1,009,000	151,000	84,000	180,000
U.S. citizen	1,215,000	839,000	119,000	82,000	175,000
Native-born	1,025,000	686,000	107,000	78,000	154,000
Naturalized	190,000	153,000	12,000	4,000	21,000
Non-U.S. citizen	209,000	170,000	32,000	2,000	5,000
Permanent resident	119,000	107,000	7,000	2,000	3,000
Temporary resident	90,000	63,000	24,000	S	2,000
Scientists	974,000	640,000	130,000	82,000	123,000
U.S. citizen	818,000	514,000	106,000	80,000	118,000
Native-born	704,000	423,000	96,000	76,000	109,000
Naturalized	114,000	91,000	10,000	3,000	10,000
Non-U.S. citizen	156,000	125,000	24,000	2,000	4,000
Permanent resident	90,000	79,000	6,000	2,000	3,000
Temporary resident	66,000	46,000	18,000	S	2,000
Biological/agricultural/other life scientists	98,000	33,000	33,000	6,000	25,000
U.S. citizen	88,000	30,000	27,000	6,000	25,000
Native-born	81,000	26,000	25,000	6,000	24,000
Naturalized	7,000	4,000	2,000	S	1,000
Non-U.S. citizen	10,000	3,000	5,000	S	S
Permanent resident	5,000	3,000	2,000	S	S
Temporary resident	5,000	1,000	4,000	S	S
Agricultural/food scientists	13,000	5,000	5,000	S	2,000
U.S. citizen	11,000	4,000	4,000	S	2,000
Native-born	11,000	4,000	4,000	S	2,000

TABLE 17. 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	2,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Biological/medical scientists	63,000	25,000	19,000	S	18,000
U.S. citizen	56,000	23,000	16,000	S	17,000
Native-born	49,000	19,000	14,000	S	16,000
Naturalized	6,000	4,000	2,000	S	1,000
Non-U.S. citizen	7,000	2,000	4,000	S	S
Permanent resident	3,000	2,000	1,000	S	S
Temporary resident	4,000	1,000	3,000	S	S
Environmental life scientists	9,000	3,000	S	S	6,000
U.S. citizen	9,000	3,000	S	S	6,000
Native-born	9,000	3,000	S	S	6,000
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	13,000	S	7,000	6,000	S
U.S. citizen	13,000	S	7,000	6,000	S
Native-born	13,000	S	6,000	6,000	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	578,000	455,000	48,000	27,000	49,000
U.S. citizen	451,000	343,000	36,000	25,000	47,000
Native-born	362,000	267,000	31,000	24,000	40,000
Naturalized	89,000	75,000	5,000	1,000	7,000
Non-U.S. citizen	127,000	112,000	11,000	1,000	3,000
Permanent resident	77,000	70,000	4,000	1,000	2,000
Temporary resident	50,000	42,000	7,000	S	1,000
Computer/information scientists	515,000	439,000	26,000	7,000	42,000
U.S. citizen	394,000	329,000	18,000	7,000	40,000
Native-born	311,000	256,000	15,000	7,000	34,000
Naturalized	83,000	74,000	3,000	S	6,000
Non-U.S. citizen	121,000	110,000	8,000	S	3,000
Permanent resident	74,000	70,000	3,000	S	2,000
Temporary resident	46,000	40,000	5,000	S	1,000
Mathematical scientists	25,000	15,000	3,000	S	7,000
U.S. citizen	23,000	13,000	2,000	S	7,000
Native-born	19,000	11,000	2,000	S	6,000
Naturalized	3,000	2,000	S	S	1,000
Non-U.S. citizen	3,000	2,000	1,000	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	2,000	1,000	*	S	S
Postsecondary teachers-computer/mathematical sciences	38,000	S	19,000	19,000	S
U.S. citizen	34,000	S	16,000	17,000	S
Native-born	31,000	S	14,000	16,000	S
Naturalized	3,000	S	2,000	1,000	S
Non-U.S. citizen	4,000	S	3,000	1,000	S
Permanent resident	2,000	S	1,000	1,000	S
Temporary resident	2,000	S	2,000	S	S
Physical/related scientists	83,000	49,000	15,000	4,000	15,000
U.S. citizen	76,000	46,000	11,000	4,000	15,000

TABLE 17. 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	67,000	40,000	10,000	3,000	14,000
Naturalized	9,000	6,000	2,000	S	1,000
Non-U.S. citizen	7,000	3,000	4,000	S	S
Permanent resident	3,000	2,000	*	S	S
Temporary resident	4,000	1,000	3,000	S	S
Chemists, except biochemists	25,000	20,000	2,000	S	3,000
U.S. citizen	21,000	17,000	1,000	S	3,000
Native-born	16,000	13,000	*	S	2,000
Naturalized	5,000	4,000	S	S	1,000
Non-U.S. citizen	4,000	3,000	1,000	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	2,000	1,000	1,000	S	S
Earth/atmospheric/ocean scientists	27,000	19,000	2,000	S	6,000
U.S. citizen	26,000	19,000	2,000	S	5,000
Native-born	26,000	18,000	2,000	S	5,000
Naturalized	1,000	1,000	S	S	S
Non-U.S. citizen	1,000	S	*	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	S	*	S	S
Physicists/astronomers	8,000	5,000	2,000	S	1,000
U.S. citizen	7,000	5,000	1,000	S	1,000
Native-born	6,000	4,000	1,000	S	1,000
Naturalized	1,000	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
Postsecondary teachers-physical/related sciences	12,000	S	8,000	4,000	S
U.S. citizen	11,000	S	7,000	4,000	S
Native-born	9,000	S	6,000	3,000	S
Naturalized	1,000	S	1,000	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 physical/related scientists	10,000	5,000	S	S	5,000
U.S. citizen	10,000	5,000	S	S	5,000
Native-born	9,000	5,000	S	S	5,000
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
Social/related scientists	215,000	102,000	35,000	45,000	33,000
U.S. citizen	203,000	96,000	31,000	44,000	32,000
Native-born	193,000	89,000	29,000	43,000	32,000
Naturalized	9,000	6,000	1,000	2,000	S
Non-U.S. citizen	12,000	7,000	4,000	S	S
Permanent resident	5,000	4,000	S	S	S
Temporary resident	7,000	3,000	3,000	S	S
Economists	17,000	9,000	2,000	S	6,000
U.S. citizen	15,000	8,000	1,000	S	6,000
Native-born	14,000	7,000	1,000	S	6,000
Naturalized	S	S	S	S	S
Non-U.S. citizen	3,000	2,000	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	1,000	1,000	S	S
Political/related scientists	4,000	1,000	*	S	2,000

TABLE 17. 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	4,000	1,000	S	S	2,000
Native-born	4,000	1,000	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-social/related sciences	30,000	S	18,000	12,000	S
U.S. citizen	27,000	S	15,000	11,000	S
Native-born	26,000	S	14,000	11,000	S
Naturalized	1,000	S	1,000	*	S
Non-U.S. citizen	3,000	S	3,000	S	S
Permanent resident	1,000	S	S	S	S
Temporary resident	2,000	S	2,000	S	S
Psychologists	100,000	48,000	9,000	33,000	10,000
U.S. citizen	98,000	47,000	9,000	33,000	10,000
Native-born	95,000	45,000	9,000	31,000	10,000
Naturalized	3,000	2,000	S	1,000	S
Non-U.S. citizen	2,000	1,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	S	S	S	S	S
Sociologists/anthropologists	8,000	4,000	3,000	S	1,000
U.S. citizen	8,000	4,000	2,000	S	1,000
Native-born	8,000	4,000	2,000	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
Other social/related scientists	56,000	40,000	3,000	S	13,000
U.S. citizen	52,000	36,000	2,000	S	13,000
Native-born	48,000	33,000	2,000	S	12,000
Naturalized	4,000	3,000	S	S	S
Non-U.S. citizen	4,000	4,000	S	S	S
Permanent resident	3,000	2,000	S	S	S
Temporary resident	2,000	2,000	S	S	S
Engineers	450,000	369,000	21,000	2,000	57,000
U.S. citizen	397,000	325,000	14,000	2,000	57,000
Native-born	321,000	263,000	11,000	2,000	45,000
Naturalized	76,000	62,000	2,000	S	11,000
Non-U.S. citizen	53,000	44,000	8,000	S	1,000
Permanent resident	29,000	28,000	1,000	S	1,000
Temporary resident	24,000	17,000	7,000	S	S
Aerospace/aeronautical/astronautical engineers	37,000	27,000	1,000	S	8,000
U.S. citizen	36,000	27,000	1,000	S	8,000
Native-born	31,000	23,000	1,000	S	8,000
Naturalized	5,000	4,000	S	S	1,000
Non-U.S. citizen	1,000	1,000	*	S	S
Permanent resident	1,000	S	S	S	S
Temporary resident	*	S	*	S	S
Chemical engineers	21,000	20,000	1,000	S	S
U.S. citizen	18,000	17,000	*	S	S
Native-born	14,000	14,000	*	S	S
Naturalized	3,000	3,000	S	S	S
Non-U.S. citizen	3,000	2,000	*	S	S
Permanent resident	2,000	2,000	S	S	S
Temporary resident	1,000	1,000	*	S	S

TABLE 17. 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
Civil/architectural/sanitary engineers	68,000	48,000	1,000	S	19,000
U.S. citizen	63,000	43,000	1,000	S	19,000
Native-born	47,000	35,000	1,000	S	12,000
Naturalized	15,000	8,000	S	S	7,000
Non-U.S. citizen	6,000	5,000	S	S	*
Permanent resident	3,000	2,000	S	S	*
Temporary resident	3,000	3,000	S	S	S
Electrical/computer hardware engineers	118,000	103,000	5,000	S	9,000
U.S. citizen	97,000	85,000	3,000	S	9,000
Native-born	71,000	61,000	2,000	S	8,000
Naturalized	26,000	24,000	1,000	S	1,000
Non-U.S. citizen	20,000	18,000	2,000	S	S
Permanent resident	12,000	12,000	S	S	S
Temporary resident	8,000	5,000	2,000	S	S
Industrial engineers	23,000	20,000	*	S	2,000
U.S. citizen	19,000	17,000	S	S	2,000
Native-born	17,000	16,000	S	S	2,000
Naturalized	2,000	2,000	S	S	S
Non-U.S. citizen	4,000	3,000	S	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	2,000	2,000	S	S	S
Mechanical engineers	74,000	65,000	3,000	S	5,000
U.S. citizen	65,000	58,000	2,000	S	5,000
Native-born	54,000	47,000	2,000	S	5,000
Naturalized	11,000	10,000	S	S	1,000
Non-U.S. citizen	9,000	8,000	1,000	S	S
Permanent resident	5,000	5,000	S	S	S
Temporary resident	4,000	3,000	1,000	S	S
Postsecondary teachers-engineering	8,000	S	6,000	2,000	S
U.S. citizen	6,000	S	4,000	2,000	S
Native-born	5,000	S	4,000	1,000	S
Naturalized	1,000	S	S	S	S
Non-U.S. citizen	2,000	S	1,000	S	S
Permanent resident	S	S	S	S	S
Temporary resident	1,000	S	1,000	S	S
Other engineers	102,000	85,000	4,000	S	13,000
U.S. citizen	93,000	77,000	3,000	S	13,000
Native-born	81,000	67,000	2,000	S	11,000
Naturalized	12,000	10,000	S	S	2,000
Non-U.S. citizen	9,000	8,000	1,000	S	S
Permanent resident	5,000	5,000	S	S	S
Temporary resident	4,000	2,000	1,000	S	S
S&E-related occupations	1,228,000	611,000	86,000	417,000	113,000
U.S. citizen	1,190,000	582,000	82,000	414,000	112,000
Native-born	1,080,000	511,000	74,000	396,000	99,000
Naturalized	110,000	71,000	8,000	18,000	13,000
Non-U.S. citizen	37,000	29,000	4,000	3,000	1,000
Permanent resident	28,000	23,000	2,000	2,000	1,000
Temporary resident	9,000	7,000	1,000	S	S
Health-related occupations	599,000	382,000	70,000	76,000	72,000
U.S. citizen	589,000	374,000	68,000	76,000	72,000
Native-born	536,000	337,000	62,000	74,000	62,000
Naturalized	53,000	37,000	5,000	2,000	10,000
Non-U.S. citizen	11,000	8,000	2,000	S	S
Permanent resident	11,000	8,000	2,000	S	S
Temporary resident	S	S	S	S	S

TABLE 17. 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 managers	135,000	99,000	9,000	S	27,000
U.S. citizen	130,000	94,000	9,000	S	26,000
Native-born	117,000	83,000	8,000	S	25,000
Naturalized	13,000	11,000	1,000	S	1,000
Non-U.S. citizen	5,000	4,000	S	S	S
Permanent resident	4,000	4,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
S&E precollege teachers	341,000	3,000	S	337,000	1,000
U.S. citizen	338,000	3,000	S	334,000	1,000
Native-born	322,000	3,000	S	318,000	1,000
Naturalized	16,000	S	S	16,000	S
Non-U.S. citizen	3,000	S	S	3,000	S
Permanent resident	2,000	S	S	2,000	S
Temporary resident	S	S	S	S	S
S&E technicians/technologists	89,000	70,000	7,000	S	10,000
U.S. citizen	76,000	59,000	6,000	S	9,000
Native-born	57,000	42,000	4,000	S	8,000
Naturalized	19,000	16,000	1,000	S	1,000
Non-U.S. citizen	14,000	12,000	1,000	S	S
Permanent resident	8,000	7,000	S	S	S
Temporary resident	5,000	4,000	1,000	S	S
Other S&E-related occupations	62,000	58,000	S	S	4,000
U.S. citizen	57,000	53,000	S	S	4,000
Native-born	49,000	46,000	S	S	3,000
Naturalized	8,000	7,000	S	S	S
Non-U.S. citizen	5,000	5,000	S	S	S
Permanent resident	3,000	3,000	S	S	S
Temporary resident	2,000	2,000	S	S	S
Non-S&E occupations	2,328,000	1,406,000	133,000	475,000	314,000
U.S. citizen	2,220,000	1,319,000	126,000	468,000	307,000
Native-born	2,021,000	1,178,000	118,000	448,000	277,000
Naturalized	199,000	141,000	8,000	20,000	30,000
Non-U.S. citizen	108,000	87,000	7,000	7,000	7,000
Permanent resident	83,000	66,000	4,000	6,000	7,000
Temporary resident	25,000	22,000	3,000	S	S
Art/humanities/related occupations	74,000	63,000	5,000	S	5,000
U.S. citizen	69,000	59,000	5,000	S	3,000
Native-born	65,000	56,000	5,000	S	3,000
Naturalized	4,000	3,000	S	S	S
Non-U.S. citizen	5,000	4,000	S	S	S
Permanent resident	3,000	S	S	S	S
Temporary resident	S	S	S	S	S
Management-related occupations	457,000	353,000	17,000	11,000	77,000
U.S. citizen	428,000	327,000	16,000	11,000	74,000
Native-born	375,000	287,000	14,000	9,000	65,000
Naturalized	53,000	41,000	2,000	S	9,000
Non-U.S. citizen	30,000	26,000	S	S	3,000
Permanent resident	21,000	18,000	S	S	2,000
Temporary resident	8,000	8,000	S	S	S
Non-S&E Managers	362,000	235,000	18,000	63,000	46,000
U.S. citizen	351,000	225,000	18,000	63,000	45,000
Native-born	325,000	203,000	17,000	62,000	43,000
Naturalized	26,000	21,000	1,000	1,000	3,000
Non-U.S. citizen	11,000	11,000	S	S	S
Permanent resident	7,000	7,000	S	S	S

TABLE 17. 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
Temporary resident	4,000	4,000	S	S	S
Non-S&E postsecondary teachers	63,000	S	39,000	20,000	3,000
U.S. citizen	60,000	S	37,000	20,000	3,000
Native-born	57,000	S	35,000	19,000	3,000
Naturalized	3,000	S	2,000	1,000	S
Non-U.S. citizen	3,000	S	2,000	S	S
Permanent resident	1,000	S	1,000	S	S
Temporary resident	2,000	S	2,000	S	S
Non-S&E precollege/other teachers	283,000	10,000	1,000	268,000	3,000
U.S. citizen	278,000	9,000	1,000	264,000	3,000
Native-born	264,000	8,000	1,000	252,000	2,000
Naturalized	14,000	1,000	S	12,000	S
Non-U.S. citizen	5,000	S	S	4,000	S
Permanent resident	5,000	S	S	4,000	S
Temporary resident	S	S	S	S	S
Sales/marketing occupations	304,000	302,000	S	S	2,000
U.S. citizen	286,000	284,000	S	S	2,000
Native-born	251,000	250,000	S	S	S
Naturalized	34,000	34,000	S	S	S
Non-U.S. citizen	18,000	18,000	S	S	S
Permanent resident	15,000	15,000	S	S	S
Temporary resident	3,000	3,000	S	S	S
Social services/related occupations	353,000	175,000	18,000	82,000	78,000
U.S. citizen	348,000	173,000	18,000	82,000	77,000
Native-born	328,000	165,000	16,000	78,000	69,000
Naturalized	21,000	8,000	2,000	4,000	7,000
Non-U.S. citizen	5,000	2,000	S	S	S
Permanent resident	4,000	2,000	S	S	S
Temporary resident	S	S	S	S	S
Other non-S&E occupations	432,000	267,000	34,000	29,000	102,000
U.S. citizen	400,000	241,000	31,000	28,000	100,000
Native-born	356,000	210,000	29,000	27,000	91,000
Naturalized	44,000	32,000	2,000	S	9,000
Non-U.S. citizen	32,000	26,000	2,000	2,000	2,000
Permanent resident	27,000	22,000	2,000	2,000	2,000
Temporary resident	5,000	4,000	1,000	S	S
Doctorate degrees, all occupations	885,000	366,000	385,000	59,000	75,000
U.S. citizen	748,000	300,000	324,000	55,000	69,000
Native-born	605,000	228,000	270,000	51,000	56,000
Naturalized	143,000	71,000	54,000	5,000	13,000
Non-U.S. citizen	137,000	67,000	62,000	3,000	6,000
Permanent resident	92,000	49,000	37,000	3,000	3,000
Temporary resident	45,000	18,000	25,000	*	2,000
S&E occupations	558,000	216,000	272,000	18,000	52,000
U.S. citizen	454,000	170,000	219,000	17,000	48,000
Native-born	359,000	127,000	179,000	15,000	38,000
Naturalized	95,000	43,000	41,000	2,000	9,000
Non-U.S. citizen	104,000	46,000	52,000	1,000	5,000
Permanent resident	65,000	31,000	30,000	1,000	3,000
Temporary resident	39,000	15,000	22,000	*	2,000
Scientists	465,000	159,000	244,000	17,000	45,000
U.S. citizen	381,000	127,000	197,000	16,000	40,000
Native-born	312,000	101,000	164,000	15,000	33,000
Naturalized	69,000	27,000	33,000	2,000	7,000
Non-U.S. citizen	84,000	32,000	47,000	1,000	4,000

TABLE 17. 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	52,000	22,000	28,000	1,000	2,000
Temporary resident	31,000	10,000	19,000	*	2,000
Biological/agricultural/other life scientists	148,000	38,000	90,000	3,000	17,000
U.S. citizen	112,000	28,000	67,000	3,000	14,000
Native-born	88,000	20,000	54,000	2,000	12,000
Naturalized	24,000	7,000	13,000	*	3,000
Non-U.S. citizen	36,000	10,000	23,000	*	3,000
Permanent resident	22,000	7,000	12,000	S	2,000
Temporary resident	14,000	3,000	11,000	S	1,000
Agricultural/food scientists	9,000	4,000	4,000	S	2,000
U.S. citizen	8,000	3,000	3,000	S	2,000
Native-born	7,000	3,000	2,000	S	2,000
Naturalized	1,000	1,000	*	S	S
Non-U.S. citizen	2,000	1,000	1,000	S	S
Permanent resident	1,000	*	1,000	S	S
Temporary resident	*	*	*	S	S
Biological/medical scientists	103,000	34,000	54,000	*	15,000
U.S. citizen	72,000	24,000	35,000	*	12,000
Native-born	53,000	17,000	26,000	*	9,000
Naturalized	19,000	7,000	9,000	S	3,000
Non-U.S. citizen	31,000	9,000	19,000	S	3,000
Permanent resident	18,000	7,000	10,000	S	1,000
Temporary resident	13,000	2,000	9,000	S	1,000
Environmental life scientists	2,000	*	1,000	S	1,000
U.S. citizen	2,000	*	1,000	S	1,000
Native-born	1,000	*	*	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	34,000	S	31,000	3,000	S
U.S. citizen	31,000	S	28,000	2,000	S
Native-born	27,000	S	25,000	2,000	S
Naturalized	4,000	S	3,000	*	S
Non-U.S. citizen	3,000	S	3,000	*	S
Permanent resident	2,000	S	2,000	S	S
Temporary resident	1,000	S	1,000	S	S
Computer/mathematical scientists	86,000	40,000	38,000	3,000	5,000
U.S. citizen	64,000	28,000	29,000	2,000	5,000
Native-born	46,000	19,000	22,000	2,000	3,000
Naturalized	18,000	9,000	7,000	*	1,000
Non-U.S. citizen	23,000	13,000	9,000	*	*
Permanent resident	15,000	9,000	6,000	*	*
Temporary resident	7,000	4,000	3,000	S	S
Computer/information scientists	43,000	35,000	5,000	*	3,000
U.S. citizen	30,000	23,000	3,000	*	2,000
Native-born	20,000	15,000	3,000	*	2,000
Naturalized	10,000	8,000	1,000	S	1,000
Non-U.S. citizen	13,000	11,000	1,000	S	*
Permanent resident	8,000	8,000	*	S	S
Temporary resident	4,000	3,000	1,000	S	S
Mathematical scientists	11,000	6,000	3,000	S	2,000
U.S. citizen	8,000	4,000	2,000	S	2,000
Native-born	6,000	3,000	1,000	S	1,000
Naturalized	2,000	1,000	*	S	1,000

TABLE 17. 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	3,000	1,000	1,000	S	S
Permanent resident	1,000	1,000	*	S	S
Temporary resident	1,000	1,000	1,000	S	S
Postsecondary teachers-computer/mathematical sciences	33,000	S	31,000	2,000	S
U.S. citizen	26,000	S	24,000	2,000	S
Native-born	19,000	S	18,000	2,000	S
Naturalized	6,000	S	6,000	*	S
Non-U.S. citizen	7,000	S	7,000	*	S
Permanent resident	5,000	S	5,000	S	S
Temporary resident	2,000	S	2,000	S	S
Physical/related scientists	91,000	35,000	42,000	3,000	11,000
U.S. citizen	74,000	27,000	33,000	3,000	11,000
Native-born	59,000	20,000	28,000	2,000	8,000
Naturalized	15,000	7,000	5,000	*	2,000
Non-U.S. citizen	17,000	7,000	9,000	*	1,000
Permanent resident	10,000	5,000	5,000	*	*
Temporary resident	7,000	2,000	4,000	S	*
Chemists, except biochemists	30,000	22,000	4,000	S	3,000
U.S. citizen	24,000	18,000	3,000	S	3,000
Native-born	17,000	13,000	2,000	S	2,000
Naturalized	6,000	5,000	1,000	S	1,000
Non-U.S. citizen	6,000	4,000	2,000	S	*
Permanent resident	4,000	3,000	1,000	S	S
Temporary resident	2,000	1,000	1,000	S	S
Earth/atmospheric/ocean scientists	10,000	3,000	3,000	S	3,000
U.S. citizen	9,000	3,000	2,000	S	3,000
Native-born	7,000	2,000	2,000	S	3,000
Naturalized	1,000	*	*	S	1,000
Non-U.S. citizen	2,000	1,000	1,000	S	S
Permanent resident	1,000	*	*	S	S
Temporary resident	1,000	*	1,000	S	S
Physicists/astronomers	17,000	7,000	6,000	S	4,000
U.S. citizen	13,000	5,000	4,000	S	3,000
Native-born	10,000	4,000	3,000	S	3,000
Naturalized	3,000	1,000	1,000	S	1,000
Non-U.S. citizen	4,000	2,000	2,000	S	*
Permanent resident	2,000	1,000	1,000	S	*
Temporary resident	2,000	1,000	1,000	S	*
Postsecondary teachers-physical/related sciences	30,000	S	27,000	3,000	S
U.S. citizen	26,000	S	23,000	3,000	S
Native-born	22,000	S	20,000	2,000	S
Naturalized	4,000	S	3,000	*	S
Non-U.S. citizen	4,000	S	4,000	*	S
Permanent resident	3,000	S	3,000	*	S
Temporary resident	1,000	S	1,000	S	S
Other physical/related scientists	4,000	2,000	1,000	S	1,000
U.S. citizen	3,000	1,000	1,000	S	1,000
Native-born	2,000	1,000	1,000	S	*
Naturalized	1,000	1,000	S	S	*
Non-U.S. citizen	1,000	1,000	1,000	S	S
Permanent resident	1,000	*	*	S	S
Temporary resident	1,000	S	*	S	S
Social/related scientists	140,000	46,000	74,000	9,000	11,000
U.S. citizen	131,000	44,000	68,000	8,000	11,000
Native-born	119,000	41,000	61,000	8,000	10,000

TABLE 17. 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	12,000	3,000	7,000	1,000	1,000
Non-U.S. citizen	9,000	2,000	6,000	*	*
Permanent resident	6,000	1,000	4,000	*	*
Temporary resident	3,000	1,000	2,000	S	S
Economists	9,000	4,000	2,000	S	3,000
U.S. citizen	7,000	3,000	1,000	S	2,000
Native-born	6,000	3,000	1,000	S	2,000
Naturalized	1,000	*	*	S	*
Non-U.S. citizen	2,000	1,000	*	S	*
Permanent resident	1,000	*	*	S	*
Temporary resident	1,000	1,000	S	S	S
Political/related scientists	2,000	*	1,000	S	*
U.S. citizen	1,000	*	1,000	S	*
Native-born	1,000	*	1,000	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	64,000	*	59,000	4,000	S
U.S. citizen	59,000	*	55,000	4,000	S
Native-born	53,000	*	49,000	4,000	S
Naturalized	6,000	S	6,000	*	S
Non-U.S. citizen	5,000	S	4,000	*	S
Permanent resident	3,000	S	3,000	*	S
Temporary resident	1,000	S	1,000	S	S
Psychologists	55,000	36,000	8,000	4,000	6,000
U.S. citizen	53,000	35,000	8,000	4,000	6,000
Native-born	50,000	33,000	7,000	4,000	6,000
Naturalized	3,000	2,000	1,000	*	*
Non-U.S. citizen	1,000	*	1,000	S	S
Permanent resident	1,000	*	*	S	S
Temporary resident	*	S	*	S	S
Sociologists/anthropologists	5,000	2,000	2,000	S	1,000
U.S. citizen	5,000	2,000	2,000	S	1,000
Native-born	5,000	2,000	2,000	S	1,000
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	6,000	3,000	1,000	S	1,000
U.S. citizen	6,000	3,000	1,000	S	1,000
Native-born	5,000	3,000	1,000	S	1,000
Naturalized	1,000	*	*	S	*
Non-U.S. citizen	1,000	*	*	S	S
Permanent resident	*	*	S	S	S
Temporary resident	*	S	S	S	S
Engineers	93,000	58,000	28,000	*	8,000
U.S. citizen	73,000	43,000	22,000	*	7,000
Native-born	47,000	27,000	15,000	*	5,000
Naturalized	26,000	16,000	7,000	*	2,000
Non-U.S. citizen	20,000	15,000	5,000	S	*
Permanent resident	13,000	10,000	3,000	S	*
Temporary resident	8,000	5,000	3,000	S	*
Aerospace/aeronautical/astronautical engineers	5,000	4,000	*	S	1,000
U.S. citizen	5,000	4,000	*	S	1,000

TABLE 17. 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	3,000	2,000	S	S	1,000
Naturalized	1,000	1,000	S	S	*
Non-U.S. citizen	*	*	S	S	S
Permanent resident	*	*	S	S	S
Temporary resident	S	S	S	S	S
Chemical engineers	9,000	8,000	1,000	S	*
U.S. citizen	7,000	6,000	*	S	*
Native-born	4,000	4,000	*	S	*
Naturalized	3,000	3,000	S	S	S
Non-U.S. citizen	2,000	1,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	*	*	S	S
Civil/architectural/sanitary engineers	5,000	3,000	1,000	S	1,000
U.S. citizen	4,000	2,000	*	S	1,000
Native-born	2,000	2,000	*	S	*
Naturalized	2,000	1,000	S	S	*
Non-U.S. citizen	1,000	1,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	*	S	S	S
Electrical/computer hardware engineers	21,000	17,000	2,000	S	1,000
U.S. citizen	15,000	11,000	2,000	S	1,000
Native-born	9,000	6,000	1,000	S	1,000
Naturalized	6,000	5,000	1,000	S	*
Non-U.S. citizen	6,000	6,000	1,000	S	S
Permanent resident	4,000	3,000	*	S	S
Temporary resident	3,000	2,000	*	S	S
Industrial engineers	2,000	2,000	*	S	S
U.S. citizen	2,000	2,000	*	S	S
Native-born	2,000	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	10,000	8,000	1,000	S	1,000
U.S. citizen	7,000	6,000	1,000	S	1,000
Native-born	4,000	3,000	*	S	*
Naturalized	3,000	2,000	*	S	*
Non-U.S. citizen	3,000	2,000	*	S	S
Permanent resident	1,000	1,000	S	S	S
Temporary resident	1,000	1,000	S	S	S
Postsecondary teachers-engineering	20,000	S	19,000	*	S
U.S. citizen	17,000	S	17,000	*	S
Native-born	11,000	S	11,000	*	S
Naturalized	6,000	S	6,000	*	S
Non-U.S. citizen	3,000	S	3,000	S	S
Permanent resident	2,000	S	2,000	S	S
Temporary resident	1,000	S	1,000	S	S
Other engineers	22,000	16,000	3,000	S	3,000
U.S. citizen	17,000	12,000	2,000	S	3,000
Native-born	12,000	8,000	2,000	S	2,000
Naturalized	5,000	4,000	*	S	1,000
Non-U.S. citizen	5,000	4,000	1,000	S	S
Permanent resident	3,000	3,000	*	S	S
Temporary resident	2,000	1,000	1,000	S	S
S&E-related occupations	105,000	46,000	38,000	13,000	9,000

TABLE 17. 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	92,000	39,000	33,000	12,000	8,000
Native-born	75,000	30,000	28,000	11,000	6,000
Naturalized	18,000	9,000	5,000	1,000	2,000
Non-U.S. citizen	13,000	7,000	4,000	1,000	1,000
Permanent resident	10,000	5,000	3,000	1,000	1,000
Temporary resident	3,000	2,000	2,000	S	S
Health-related occupations	57,000	21,000	32,000	1,000	4,000
U.S. citizen	51,000	18,000	29,000	1,000	3,000
Native-born	40,000	14,000	25,000	1,000	2,000
Naturalized	11,000	4,000	4,000	S	2,000
Non-U.S. citizen	6,000	3,000	2,000	S	S
Permanent resident	5,000	3,000	2,000	S	S
Temporary resident	1,000	S	*	S	S
S&E managers	26,000	18,000	4,000	*	4,000
U.S. citizen	24,000	16,000	4,000	S	4,000
Native-born	19,000	12,000	3,000	S	4,000
Naturalized	5,000	4,000	1,000	S	*
Non-U.S. citizen	2,000	2,000	*	S	S
Permanent resident	2,000	1,000	S	S	S
Temporary resident	1,000	*	S	S	S
S&E precollege teachers	12,000	S	S	12,000	S
U.S. citizen	11,000	S	S	11,000	S
Native-born	10,000	S	S	10,000	S
Naturalized	1,000	S	S	1,000	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	8,000	5,000	2,000	S	*
U.S. citizen	4,000	3,000	*	S	*
Native-born	3,000	2,000	*	S	*
Naturalized	1,000	1,000	S	S	*
Non-U.S. citizen	3,000	2,000	1,000	S	S
Permanent resident	2,000	1,000	*	S	S
Temporary resident	2,000	*	1,000	S	S
Other S&E-related occupations	3,000	2,000	S	S	*
U.S. citizen	2,000	2,000	S	S	*
Native-born	2,000	2,000	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	222,000	104,000	76,000	28,000	14,000
U.S. citizen	202,000	90,000	71,000	27,000	14,000
Native-born	171,000	71,000	63,000	25,000	12,000
Naturalized	31,000	19,000	8,000	2,000	2,000
Non-U.S. citizen	20,000	14,000	5,000	1,000	*
Permanent resident	17,000	12,000	4,000	1,000	*
Temporary resident	3,000	2,000	1,000	S	S
Art/humanities/related occupations	10,000	8,000	1,000	S	1,000
U.S. citizen	8,000	7,000	1,000	S	1,000
Native-born	8,000	6,000	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

TABLE 17. 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
Management-related occupations	31,000	20,000	6,000	1,000	4,000
U.S. citizen	28,000	17,000	6,000	1,000	4,000
Native-born	23,000	13,000	6,000	1,000	3,000
Naturalized	5,000	4,000	*	S	1,000
Non-U.S. citizen	4,000	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	74,000	33,000	22,000	14,000	5,000
U.S. citizen	71,000	30,000	21,000	14,000	5,000
Native-born	62,000	23,000	20,000	14,000	4,000
Naturalized	9,000	7,000	2,000	S	*
Non-U.S. citizen	4,000	3,000	1,000	S	S
Permanent resident	3,000	2,000	1,000	S	S
Temporary resident	*	*	S	S	S
Non-S&E postsecondary teachers	46,000	*	42,000	3,000	S
U.S. citizen	41,000	*	38,000	3,000	S
Native-born	35,000	S	32,000	2,000	S
Naturalized	7,000	S	6,000	1,000	S
Non-U.S. citizen	4,000	S	4,000	S	S
Permanent resident	3,000	S	3,000	S	S
Temporary resident	1,000	S	1,000	S	S
Non-S&E precollege/other teachers	8,000	1,000	S	7,000	S
U.S. citizen	7,000	1,000	S	6,000	S
Native-born	7,000	1,000	S	6,000	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	18,000	17,000	*	S	S
U.S. citizen	14,000	14,000	S	S	S
Native-born	11,000	11,000	S	S	S
Naturalized	3,000	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
Social services/related occupations	12,000	9,000	1,000	1,000	1,000
U.S. citizen	12,000	9,000	1,000	1,000	1,000
Native-born	11,000	8,000	1,000	1,000	1,000
Naturalized	1,000	1,000	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	23,000	15,000	4,000	1,000	3,000
U.S. citizen	20,000	13,000	3,000	1,000	3,000
Native-born	16,000	9,000	3,000	1,000	2,000
Naturalized	4,000	3,000	*	S	1,000

TABLE 17. 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	3,000	3,000	S	S	S
Permanent resident	3,000	2,000	S	S	S
Temporary resident	*	*	S	S	S

\* = estimate < 500; S = suppressed for reliability or confidentiality.

S&E = science and engineering.

<sup>a</sup> 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. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2003.