

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
All degree levels and fields <sup>a</sup>	18,021,000	4,910,000	3,072,000	10,680,000	2,912,000	7,006,000
Business/industry	12,477,000	3,389,000	812,000	8,095,000	2,234,000	5,032,000
4-year college/university	1,505,000	673,000	570,000	571,000	167,000	558,000
Other educational institution	1,896,000	290,000	1,508,000	699,000	166,000	434,000
Government	2,142,000	559,000	182,000	1,316,000	345,000	983,000
S&E fields	9,579,000	3,201,000	1,145,000	5,948,000	1,882,000	2,684,000
Business/industry	6,826,000	2,236,000	252,000	4,602,000	1,490,000	1,887,000
4-year college/university	810,000	468,000	291,000	298,000	110,000	165,000
Other educational institution	688,000	111,000	527,000	258,000	61,000	161,000
Government	1,255,000	386,000	75,000	790,000	221,000	472,000
Sciences	7,245,000	2,052,000	1,050,000	4,537,000	1,366,000	2,196,000
Business/industry	4,879,000	1,276,000	221,000	3,395,000	1,044,000	1,475,000
4-year college/university	717,000	403,000	258,000	277,000	91,000	154,000
Other educational institution	655,000	103,000	503,000	247,000	58,000	155,000
Government	994,000	270,000	69,000	617,000	174,000	412,000
Biological/agricultural/environmental life sciences	1,481,000	520,000	226,000	874,000	161,000	510,000
Business/industry	911,000	253,000	47,000	611,000	105,000	356,000
4-year college/university	247,000	171,000	70,000	92,000	19,000	57,000
Other educational institution	106,000	16,000	94,000	43,000	5,000	21,000
Government	217,000	80,000	15,000	129,000	31,000	76,000
Agricultural/food sciences	249,000	66,000	27,000	176,000	19,000	100,000
Business/industry	176,000	38,000	5,000	137,000	11,000	74,000
4-year college/university	25,000	17,000	6,000	12,000	2,000	7,000
Other educational institution	15,000	2,000	14,000	5,000	S	6,000
Government	34,000	9,000	2,000	22,000	5,000	13,000
Biological sciences	1,081,000	405,000	187,000	590,000	122,000	358,000
Business/industry	645,000	190,000	40,000	403,000	83,000	247,000
4-year college/university	211,000	149,000	62,000	74,000	16,000	48,000
Other educational institution	85,000	12,000	74,000	35,000	5,000	14,000
Government	139,000	54,000	11,000	79,000	18,000	50,000
Environmental life sciences	151,000	49,000	12,000	108,000	21,000	52,000
Business/industry	90,000	25,000	2,000	71,000	11,000	36,000
4-year college/university	11,000	5,000	3,000	6,000	2,000	3,000
Other educational institution	6,000	2,000	5,000	3,000	S	S
Government	44,000	17,000	2,000	28,000	8,000	13,000
Computer/mathematical sciences	1,437,000	536,000	159,000	763,000	734,000	197,000
Business/industry	1,113,000	425,000	24,000	627,000	616,000	152,000
4-year college/university	101,000	50,000	40,000	35,000	38,000	9,000
Other educational institution	109,000	19,000	90,000	42,000	22,000	10,000
Government	114,000	42,000	4,000	58,000	58,000	27,000
Computer/information sciences	961,000	380,000	45,000	503,000	583,000	113,000
Business/industry	798,000	323,000	12,000	431,000	499,000	85,000
4-year college/university	49,000	23,000	9,000	20,000	28,000	4,000
Other educational institution	35,000	8,000	21,000	13,000	14,000	3,000
Government	78,000	25,000	3,000	39,000	43,000	21,000
Mathematical sciences	476,000	156,000	114,000	260,000	150,000	85,000
Business/industry	315,000	102,000	12,000	197,000	118,000	67,000
4-year college/university	51,000	26,000	31,000	14,000	10,000	5,000
Other educational institution	74,000	11,000	70,000	29,000	7,000	6,000
Government	36,000	17,000	1,000	19,000	15,000	6,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Physical/related sciences	694,000	321,000	100,000	363,000	112,000	180,000
Business/industry	458,000	206,000	12,000	274,000	76,000	130,000
4-year college/university	101,000	70,000	40,000	25,000	13,000	14,000
Other educational institution	52,000	8,000	44,000	19,000	6,000	7,000
Government	82,000	37,000	3,000	45,000	16,000	29,000
Chemistry, except biochemistry	326,000	149,000	45,000	179,000	30,000	93,000
Business/industry	230,000	103,000	7,000	144,000	23,000	69,000
4-year college/university	44,000	31,000	18,000	12,000	3,000	7,000
Other educational institution	24,000	4,000	19,000	9,000	1,000	3,000
Government	28,000	11,000	1,000	14,000	3,000	13,000
Earth/atmospheric/ocean sciences	170,000	73,000	23,000	93,000	29,000	50,000
Business/industry	105,000	42,000	3,000	64,000	17,000	33,000
4-year college/university	17,000	13,000	7,000	4,000	2,000	3,000
Other educational institution	13,000	2,000	12,000	6,000	1,000	3,000
Government	34,000	16,000	1,000	20,000	9,000	11,000
Physics/astronomy	152,000	84,000	27,000	63,000	45,000	26,000
Business/industry	95,000	52,000	1,000	48,000	33,000	18,000
4-year college/university	34,000	24,000	15,000	6,000	6,000	4,000
Other educational institution	12,000	2,000	11,000	3,000	3,000	1,000
Government	12,000	6,000	S	6,000	2,000	3,000
Other physical sciences	45,000	15,000	6,000	28,000	7,000	12,000
Business/industry	27,000	8,000	1,000	18,000	3,000	10,000
4-year college/university	6,000	3,000	*	3,000	S	S
Other educational institution	3,000	S	2,000	1,000	S	S
Government	9,000	4,000	2,000	5,000	1,000	2,000
Social/related sciences	3,633,000	676,000	565,000	2,537,000	360,000	1,309,000
Business/industry	2,399,000	392,000	138,000	1,883,000	246,000	837,000
4-year college/university	268,000	112,000	107,000	126,000	20,000	73,000
Other educational institution	387,000	61,000	274,000	143,000	25,000	118,000
Government	580,000	110,000	46,000	386,000	69,000	281,000
Economics	551,000	102,000	37,000	439,000	70,000	149,000
Business/industry	467,000	73,000	9,000	395,000	59,000	127,000
4-year college/university	29,000	15,000	15,000	13,000	4,000	4,000
Other educational institution	13,000	2,000	10,000	6,000	1,000	1,000
Government	41,000	11,000	3,000	25,000	6,000	17,000
Political/related sciences	666,000	122,000	76,000	515,000	65,000	214,000
Business/industry	464,000	72,000	25,000	392,000	47,000	153,000
4-year college/university	42,000	15,000	16,000	21,000	2,000	7,000
Other educational institution	34,000	5,000	27,000	13,000	4,000	6,000
Government	126,000	29,000	8,000	89,000	12,000	48,000
Psychology	1,335,000	229,000	256,000	855,000	116,000	600,000
Business/industry	814,000	128,000	68,000	592,000	74,000	354,000
4-year college/university	103,000	44,000	34,000	48,000	6,000	38,000
Other educational institution	212,000	27,000	136,000	77,000	12,000	89,000
Government	207,000	30,000	18,000	138,000	24,000	119,000
Sociology/anthropology	684,000	127,000	122,000	465,000	73,000	232,000
Business/industry	410,000	64,000	27,000	317,000	43,000	134,000
4-year college/university	56,000	24,000	25,000	26,000	5,000	15,000
Other educational institution	70,000	15,000	56,000	19,000	5,000	14,000
Government	147,000	24,000	13,000	103,000	20,000	69,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other social sciences	398,000	96,000	75,000	263,000	35,000	114,000
Business/industry	244,000	54,000	10,000	187,000	23,000	69,000
4-year college/university	38,000	15,000	16,000	17,000	3,000	9,000
Other educational institution	58,000	11,000	45,000	27,000	3,000	9,000
Government	58,000	16,000	4,000	31,000	7,000	27,000
Engineering	2,334,000	1,149,000	96,000	1,411,000	516,000	488,000
Business/industry	1,947,000	959,000	31,000	1,207,000	446,000	412,000
4-year college/university	93,000	65,000	34,000	21,000	20,000	11,000
Other educational institution	33,000	8,000	24,000	11,000	3,000	5,000
Government	261,000	116,000	6,000	172,000	47,000	60,000
Aerospace/related engineering	85,000	44,000	5,000	51,000	18,000	17,000
Business/industry	70,000	35,000	3,000	44,000	14,000	16,000
4-year college/university	4,000	2,000	1,000	1,000	1,000	*
Other educational institution	*	S	*	S	S	S
Government	11,000	6,000	S	6,000	2,000	1,000
Chemical engineering	159,000	73,000	6,000	103,000	22,000	43,000
Business/industry	135,000	60,000	1,000	91,000	18,000	37,000
4-year college/university	9,000	7,000	3,000	1,000	1,000	2,000
Other educational institution	2,000	S	2,000	S	S	S
Government	14,000	5,000	S	10,000	2,000	4,000
Civil/architectural engineering	385,000	158,000	11,000	284,000	53,000	80,000
Business/industry	283,000	113,000	2,000	216,000	37,000	59,000
4-year college/university	9,000	6,000	4,000	3,000	1,000	1,000
Other educational institution	5,000	2,000	3,000	2,000	S	S
Government	88,000	37,000	1,000	64,000	14,000	19,000
Electrical/computer engineering	748,000	423,000	34,000	361,000	275,000	121,000
Business/industry	655,000	370,000	13,000	323,000	250,000	106,000
4-year college/university	30,000	21,000	12,000	6,000	8,000	3,000
Other educational institution	8,000	2,000	6,000	1,000	2,000	S
Government	56,000	29,000	2,000	30,000	16,000	12,000
Industrial engineering	134,000	48,000	6,000	97,000	24,000	31,000
Business/industry	116,000	41,000	2,000	86,000	22,000	28,000
4-year college/university	3,000	2,000	2,000	1,000	*	*
Other educational institution	3,000	S	2,000	3,000	S	S
Government	12,000	4,000	S	8,000	2,000	3,000
Mechanical engineering	492,000	254,000	17,000	315,000	67,000	104,000
Business/industry	426,000	224,000	4,000	280,000	59,000	91,000
4-year college/university	16,000	11,000	5,000	4,000	3,000	1,000
Other educational institution	7,000	1,000	6,000	3,000	S	1,000
Government	42,000	18,000	S	29,000	4,000	11,000
Other engineering	330,000	150,000	17,000	201,000	57,000	92,000
Business/industry	262,000	116,000	6,000	167,000	45,000	76,000
4-year college/university	22,000	15,000	7,000	5,000	4,000	4,000
Other educational institution	7,000	1,000	4,000	3,000	*	3,000
Government	39,000	17,000	*	26,000	8,000	10,000
S&E-related fields	4,383,000	786,000	1,017,000	2,193,000	318,000	2,855,000
Business/industry	3,093,000	535,000	413,000	1,699,000	222,000	2,129,000
4-year college/university	469,000	127,000	183,000	158,000	25,000	329,000
Other educational institution	438,000	60,000	349,000	141,000	33,000	129,000
Government	384,000	64,000	72,000	195,000	38,000	267,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Health	3,373,000	452,000	764,000	1,577,000	158,000	2,630,000
Business/industry	2,435,000	274,000	389,000	1,243,000	108,000	1,959,000
4-year college/university	433,000	112,000	164,000	144,000	19,000	323,000
Other educational institution	201,000	23,000	143,000	53,000	9,000	109,000
Government	304,000	43,000	67,000	138,000	22,000	239,000
Science/mathematics teacher education	340,000	63,000	218,000	154,000	38,000	58,000
Business/industry	94,000	20,000	11,000	59,000	12,000	34,000
4-year college/university	15,000	6,000	13,000	5,000	3,000	S
Other educational institution	214,000	34,000	191,000	80,000	20,000	17,000
Government	16,000	4,000	3,000	10,000	4,000	5,000
Technology/technical fields	334,000	129,000	18,000	217,000	93,000	67,000
Business/industry	288,000	117,000	9,000	192,000	80,000	56,000
4-year college/university	8,000	3,000	1,000	4,000	3,000	1,000
Other educational institution	11,000	2,000	8,000	3,000	3,000	S
Government	27,000	6,000	S	18,000	8,000	8,000
Other S&E-related fields	336,000	142,000	16,000	245,000	29,000	100,000
Business/industry	276,000	124,000	5,000	205,000	23,000	79,000
4-year college/university	12,000	6,000	4,000	6,000	S	3,000
Other educational institution	11,000	S	7,000	4,000	S	S
Government	37,000	11,000	S	29,000	4,000	15,000
Non-S&E fields	4,059,000	923,000	910,000	2,539,000	712,000	1,467,000
Business/industry	2,558,000	617,000	146,000	1,794,000	522,000	1,016,000
4-year college/university	227,000	78,000	96,000	114,000	32,000	64,000
Other educational institution	771,000	119,000	632,000	300,000	72,000	144,000
Government	503,000	109,000	35,000	331,000	86,000	244,000
Arts/humanities	366,000	121,000	88,000	193,000	101,000	107,000
Business/industry	241,000	87,000	12,000	144,000	81,000	78,000
4-year college/university	34,000	12,000	17,000	14,000	5,000	14,000
Other educational institution	61,000	10,000	57,000	19,000	7,000	5,000
Government	30,000	13,000	2,000	15,000	8,000	10,000
Education, except science/mathematics teacher education	890,000	158,000	538,000	429,000	94,000	224,000
Business/industry	201,000	40,000	23,000	124,000	32,000	88,000
4-year college/university	62,000	20,000	31,000	32,000	4,000	16,000
Other educational institution	576,000	90,000	476,000	239,000	46,000	95,000
Government	51,000	8,000	8,000	34,000	12,000	24,000
Management/administration	1,367,000	381,000	102,000	1,013,000	362,000	297,000
Business/industry	1,137,000	322,000	38,000	873,000	302,000	250,000
4-year college/university	52,000	18,000	16,000	30,000	13,000	10,000
Other educational institution	48,000	5,000	37,000	16,000	9,000	9,000
Government	130,000	35,000	11,000	94,000	39,000	29,000
Sales/marketing	144,000	34,000	10,000	111,000	29,000	33,000
Business/industry	127,000	29,000	4,000	102,000	24,000	28,000
4-year college/university	7,000	3,000	2,000	2,000	S	2,000
Other educational institution	4,000	S	3,000	2,000	S	S
Government	7,000	1,000	S	5,000	2,000	3,000
Social services/related	317,000	46,000	85,000	161,000	26,000	205,000
Business/industry	211,000	30,000	49,000	112,000	17,000	141,000
4-year college/university	21,000	5,000	10,000	10,000	2,000	8,000
Other educational institution	35,000	5,000	19,000	12,000	3,000	21,000
Government	50,000	6,000	7,000	27,000	5,000	35,000

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Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other non-S&E fields	975,000	183,000	88,000	632,000	100,000	600,000
Business/industry	642,000	109,000	22,000	438,000	66,000	431,000
4-year college/university	52,000	20,000	19,000	27,000	7,000	13,000
Other educational institution	47,000	9,000	39,000	12,000	7,000	15,000
Government	235,000	45,000	8,000	156,000	20,000	142,000
Bachelor's degrees, all fields	10,490,000	2,722,000	1,398,000	6,573,000	1,991,000	3,674,000
Business/industry	7,801,000	2,072,000	473,000	5,240,000	1,568,000	2,700,000
4-year college/university	566,000	202,000	122,000	250,000	93,000	252,000
Other educational institution	841,000	129,000	693,000	300,000	84,000	161,000
Government	1,281,000	319,000	109,000	782,000	245,000	562,000
S&E fields	6,953,000	1,979,000	666,000	4,633,000	1,370,000	1,983,000
Business/industry	5,250,000	1,508,000	189,000	3,705,000	1,095,000	1,453,000
4-year college/university	326,000	146,000	60,000	155,000	62,000	94,000
Other educational institution	450,000	72,000	359,000	181,000	42,000	78,000
Government	927,000	253,000	59,000	593,000	171,000	358,000
Sciences	5,276,000	1,235,000	610,000	3,552,000	1,017,000	1,603,000
Business/industry	3,819,000	868,000	161,000	2,768,000	788,000	1,127,000
4-year college/university	294,000	127,000	53,000	147,000	54,000	87,000
Other educational institution	427,000	66,000	343,000	173,000	41,000	74,000
Government	736,000	174,000	53,000	464,000	135,000	314,000
Biological/agricultural/environmental life sciences	1,082,000	294,000	129,000	691,000	131,000	411,000
Business/industry	737,000	171,000	33,000	513,000	87,000	298,000
4-year college/university	108,000	65,000	18,000	46,000	12,000	38,000
Other educational institution	77,000	11,000	67,000	33,000	4,000	16,000
Government	160,000	47,000	10,000	100,000	27,000	59,000
Agricultural/food sciences	199,000	37,000	17,000	152,000	16,000	85,000
Business/industry	149,000	26,000	3,000	123,000	9,000	64,000
4-year college/university	9,000	4,000	1,000	6,000	2,000	4,000
Other educational institution	12,000	1,000	12,000	4,000	S	5,000
Government	29,000	5,000	2,000	20,000	5,000	12,000
Biological sciences	767,000	224,000	106,000	452,000	99,000	287,000
Business/industry	517,000	126,000	28,000	331,000	71,000	206,000
4-year college/university	92,000	58,000	17,000	36,000	9,000	31,000
Other educational institution	61,000	9,000	53,000	27,000	4,000	10,000
Government	98,000	31,000	7,000	58,000	16,000	39,000
Environmental life sciences	116,000	33,000	6,000	87,000	16,000	39,000
Business/industry	72,000	19,000	1,000	59,000	8,000	28,000
4-year college/university	6,000	2,000	S	4,000	S	S
Other educational institution	4,000	1,000	3,000	2,000	S	S
Government	34,000	11,000	2,000	22,000	6,000	8,000
Computer/mathematical sciences	1,010,000	347,000	91,000	560,000	526,000	150,000
Business/industry	807,000	289,000	17,000	466,000	445,000	114,000
4-year college/university	39,000	14,000	6,000	20,000	23,000	5,000
Other educational institution	79,000	14,000	65,000	33,000	16,000	6,000
Government	85,000	31,000	2,000	41,000	43,000	25,000
Computer/information sciences	667,000	250,000	25,000	354,000	415,000	81,000
Business/industry	561,000	218,000	9,000	306,000	355,000	58,000
4-year college/university	25,000	8,000	1,000	13,000	17,000	3,000
Other educational institution	24,000	6,000	13,000	9,000	11,000	1,000
Government	57,000	18,000	1,000	26,000	31,000	19,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Mathematical sciences	343,000	97,000	66,000	206,000	111,000	68,000
Business/industry	247,000	71,000	9,000	160,000	89,000	56,000
4-year college/university	15,000	5,000	4,000	7,000	6,000	2,000
Other educational institution	55,000	8,000	52,000	23,000	5,000	4,000
Government	27,000	13,000	S	15,000	12,000	6,000
Physical/related sciences	423,000	155,000	43,000	251,000	69,000	130,000
Business/industry	306,000	111,000	8,000	199,000	48,000	95,000
4-year college/university	35,000	21,000	8,000	10,000	6,000	8,000
Other educational institution	30,000	4,000	24,000	13,000	5,000	6,000
Government	53,000	19,000	3,000	28,000	10,000	21,000
Chemistry, except biochemistry	209,000	76,000	21,000	126,000	22,000	69,000
Business/industry	157,000	54,000	4,000	105,000	17,000	53,000
4-year college/university	18,000	12,000	5,000	4,000	2,000	4,000
Other educational institution	14,000	3,000	10,000	7,000	S	S
Government	19,000	6,000	S	10,000	2,000	10,000
Earth/atmospheric/ocean sciences	105,000	38,000	10,000	63,000	17,000	34,000
Business/industry	74,000	27,000	3,000	46,000	10,000	22,000
4-year college/university	4,000	2,000	1,000	2,000	*	1,000
Other educational institution	7,000	*	6,000	3,000	S	3,000
Government	21,000	8,000	S	11,000	6,000	8,000
Physics/astronomy	73,000	32,000	9,000	38,000	25,000	16,000
Business/industry	52,000	24,000	S	32,000	19,000	11,000
4-year college/university	8,000	5,000	2,000	1,000	2,000	2,000
Other educational institution	7,000	1,000	6,000	2,000	S	S
Government	5,000	1,000	S	3,000	1,000	2,000
Other physical sciences	36,000	10,000	4,000	24,000	6,000	12,000
Business/industry	23,000	6,000	S	16,000	3,000	10,000
4-year college/university	5,000	S	S	S	S	S
Other educational institution	2,000	S	2,000	S	S	S
Government	7,000	3,000	S	4,000	S	1,000
Social/related sciences	2,760,000	439,000	347,000	2,050,000	291,000	912,000
Business/industry	1,969,000	297,000	102,000	1,590,000	207,000	619,000
4-year college/university	112,000	27,000	21,000	71,000	13,000	36,000
Other educational institution	241,000	37,000	186,000	94,000	16,000	47,000
Government	439,000	78,000	38,000	295,000	55,000	210,000
Economics	455,000	68,000	18,000	379,000	56,000	124,000
Business/industry	407,000	60,000	7,000	349,000	48,000	107,000
4-year college/university	10,000	2,000	2,000	7,000	2,000	3,000
Other educational institution	8,000	*	6,000	4,000	S	S
Government	30,000	5,000	S	19,000	4,000	14,000
Political/related sciences	548,000	88,000	54,000	433,000	53,000	183,000
Business/industry	407,000	58,000	22,000	345,000	39,000	136,000
4-year college/university	20,000	4,000	4,000	13,000	2,000	4,000
Other educational institution	28,000	4,000	22,000	11,000	2,000	5,000
Government	94,000	22,000	6,000	64,000	9,000	38,000
Psychology	849,000	129,000	136,000	601,000	87,000	309,000
Business/industry	569,000	85,000	40,000	439,000	60,000	201,000
4-year college/university	41,000	13,000	5,000	25,000	4,000	14,000
Other educational institution	102,000	13,000	78,000	41,000	6,000	21,000
Government	137,000	18,000	13,000	96,000	17,000	72,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Sociology/anthropology	605,000	92,000	94,000	427,000	66,000	210,000
Business/industry	381,000	53,000	25,000	298,000	40,000	123,000
4-year college/university	27,000	6,000	7,000	18,000	3,000	11,000
Other educational institution	63,000	13,000	49,000	17,000	4,000	13,000
Government	134,000	20,000	13,000	94,000	19,000	64,000
Other social sciences	303,000	62,000	46,000	210,000	29,000	86,000
Business/industry	204,000	41,000	8,000	159,000	19,000	53,000
4-year college/university	14,000	3,000	3,000	7,000	2,000	4,000
Other educational institution	41,000	6,000	31,000	21,000	3,000	7,000
Government	44,000	12,000	3,000	23,000	6,000	21,000
Engineering	1,677,000	745,000	56,000	1,081,000	354,000	380,000
Business/industry	1,431,000	641,000	28,000	936,000	307,000	326,000
4-year college/university	32,000	19,000	7,000	8,000	8,000	6,000
Other educational institution	23,000	6,000	16,000	8,000	2,000	4,000
Government	191,000	79,000	6,000	128,000	36,000	44,000
Aerospace/related engineering	64,000	30,000	4,000	43,000	13,000	14,000
Business/industry	54,000	25,000	3,000	37,000	11,000	13,000
4-year college/university	1,000	1,000	*	1,000	1,000	S
Other educational institution	S	S	S	S	S	S
Government	8,000	4,000	S	5,000	2,000	1,000
Chemical engineering	116,000	48,000	3,000	78,000	14,000	36,000
Business/industry	100,000	40,000	1,000	71,000	12,000	32,000
4-year college/university	4,000	3,000	1,000	S	1,000	2,000
Other educational institution	1,000	S	1,000	S	S	S
Government	10,000	4,000	S	7,000	1,000	3,000
Civil/architectural engineering	288,000	107,000	5,000	222,000	37,000	57,000
Business/industry	214,000	76,000	2,000	168,000	25,000	41,000
4-year college/university	3,000	1,000	1,000	1,000	S	S
Other educational institution	3,000	2,000	2,000	S	S	S
Government	68,000	28,000	S	51,000	11,000	14,000
Electrical/computer engineering	518,000	268,000	23,000	265,000	190,000	99,000
Business/industry	461,000	240,000	12,000	239,000	174,000	87,000
4-year college/university	9,000	5,000	3,000	2,000	3,000	2,000
Other educational institution	6,000	2,000	5,000	1,000	1,000	S
Government	42,000	21,000	S	24,000	12,000	10,000
Industrial engineering	101,000	31,000	3,000	79,000	17,000	25,000
Business/industry	91,000	29,000	1,000	71,000	15,000	24,000
4-year college/university	1,000	1,000	S	S	S	S
Other educational institution	2,000	S	2,000	2,000	S	S
Government	7,000	1,000	S	6,000	1,000	1,000
Mechanical engineering	393,000	186,000	11,000	265,000	46,000	91,000
Business/industry	346,000	168,000	3,000	238,000	41,000	80,000
4-year college/university	7,000	4,000	1,000	2,000	1,000	1,000
Other educational institution	6,000	1,000	5,000	2,000	S	S
Government	34,000	13,000	S	23,000	4,000	9,000
Other engineering	197,000	74,000	7,000	130,000	37,000	58,000
Business/industry	165,000	63,000	5,000	112,000	30,000	48,000
4-year college/university	7,000	4,000	1,000	2,000	2,000	2,000
Other educational institution	4,000	S	1,000	S	S	S
Government	21,000	7,000	S	13,000	5,000	6,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
S&E-related fields	2,322,000	400,000	490,000	1,260,000	218,000	1,352,000
Business/industry	1,704,000	309,000	234,000	1,010,000	159,000	994,000
4-year college/university	191,000	38,000	55,000	72,000	16,000	141,000
Other educational institution	206,000	25,000	162,000	66,000	16,000	62,000
Government	221,000	28,000	40,000	112,000	27,000	155,000
Health	1,621,000	174,000	363,000	806,000	108,000	1,185,000
Business/industry	1,186,000	115,000	214,000	643,000	74,000	859,000
4-year college/university	176,000	32,000	51,000	64,000	12,000	137,000
Other educational institution	89,000	9,000	60,000	24,000	7,000	50,000
Government	170,000	18,000	37,000	75,000	15,000	139,000
Science/mathematics teacher education	185,000	31,000	101,000	92,000	14,000	41,000
Business/industry	72,000	16,000	8,000	47,000	6,000	27,000
4-year college/university	S	S	S	S	S	S
Other educational institution	101,000	14,000	91,000	37,000	5,000	10,000
Government	10,000	2,000	S	6,000	2,000	4,000
Technology/technical fields	282,000	102,000	15,000	190,000	74,000	59,000
Business/industry	246,000	94,000	8,000	170,000	63,000	50,000
4-year college/university	6,000	2,000	S	3,000	2,000	S
Other educational institution	8,000	2,000	5,000	3,000	2,000	S
Government	21,000	5,000	S	14,000	7,000	6,000
Other S&E-related fields	235,000	93,000	12,000	172,000	22,000	67,000
Business/industry	201,000	85,000	4,000	150,000	17,000	58,000
4-year college/university	5,000	3,000	S	3,000	S	S
Other educational institution	8,000	S	6,000	S	S	S
Government	20,000	4,000	S	16,000	3,000	7,000
Non-S&E fields	1,215,000	343,000	242,000	679,000	403,000	340,000
Business/industry	847,000	255,000	51,000	525,000	314,000	253,000
4-year college/university	50,000	18,000	7,000	23,000	16,000	17,000
Other educational institution	186,000	32,000	172,000	53,000	26,000	21,000
Government	132,000	37,000	11,000	78,000	46,000	49,000
Arts/humanities	252,000	85,000	40,000	137,000	82,000	77,000
Business/industry	187,000	67,000	8,000	112,000	68,000	60,000
4-year college/university	14,000	4,000	S	8,000	4,000	8,000
Other educational institution	29,000	5,000	27,000	8,000	4,000	S
Government	22,000	10,000	1,000	9,000	7,000	8,000
Education, except science/mathematics teacher education	217,000	39,000	118,000	94,000	40,000	60,000
Business/industry	80,000	18,000	9,000	44,000	18,000	33,000
4-year college/university	5,000	2,000	S	3,000	S	3,000
Other educational institution	111,000	18,000	106,000	33,000	14,000	12,000
Government	21,000	2,000	3,000	13,000	8,000	12,000
Management/administration	468,000	139,000	46,000	292,000	202,000	104,000
Business/industry	379,000	115,000	20,000	249,000	166,000	86,000
4-year college/university	15,000	7,000	S	6,000	7,000	3,000
Other educational institution	23,000	3,000	19,000	6,000	6,000	4,000
Government	51,000	15,000	3,000	31,000	23,000	11,000
Sales/marketing	53,000	16,000	4,000	30,000	19,000	15,000
Business/industry	45,000	14,000	S	27,000	15,000	12,000
4-year college/university	2,000	S	S	S	S	S
Other educational institution	2,000	S	1,000	S	S	S
Government	4,000	S	S	S	S	S

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Social services/related	40,000	10,000	5,000	21,000	14,000	15,000
Business/industry	31,000	9,000	3,000	14,000	11,000	14,000
4-year college/university	2,000	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	6,000	S	S	5,000	2,000	S
Other non-S&E fields	185,000	53,000	29,000	105,000	46,000	69,000
Business/industry	125,000	32,000	9,000	79,000	36,000	48,000
4-year college/university	11,000	6,000	S	4,000	3,000	3,000
Other educational institution	20,000	6,000	18,000	4,000	3,000	4,000
Government	29,000	9,000	2,000	17,000	5,000	14,000
Master's degrees, all fields	4,979,000	1,421,000	1,168,000	2,879,000	805,000	1,673,000
Business/industry	3,026,000	957,000	214,000	1,959,000	588,000	1,062,000
4-year college/university	370,000	145,000	136,000	160,000	54,000	112,000
Other educational institution	976,000	147,000	766,000	363,000	77,000	251,000
Government	607,000	172,000	52,000	396,000	84,000	249,000
S&E fields	1,919,000	765,000	274,000	1,038,000	444,000	550,000
Business/industry	1,262,000	542,000	51,000	744,000	350,000	342,000
4-year college/university	182,000	99,000	58,000	59,000	34,000	37,000
Other educational institution	213,000	34,000	151,000	69,000	17,000	75,000
Government	262,000	90,000	14,000	166,000	42,000	95,000
Sciences	1,384,000	452,000	258,000	754,000	303,000	455,000
Business/industry	824,000	282,000	49,000	506,000	228,000	265,000
4-year college/university	154,000	78,000	52,000	55,000	26,000	34,000
Other educational institution	205,000	32,000	144,000	67,000	17,000	74,000
Government	202,000	60,000	13,000	127,000	33,000	81,000
Biological/agricultural/environmental life sciences	209,000	89,000	49,000	103,000	22,000	65,000
Business/industry	109,000	43,000	11,000	61,000	14,000	41,000
4-year college/university	39,000	25,000	13,000	13,000	5,000	7,000
Other educational institution	23,000	3,000	21,000	8,000	1,000	4,000
Government	37,000	17,000	4,000	20,000	3,000	13,000
Agricultural/food sciences	31,000	16,000	6,000	15,000	2,000	12,000
Business/industry	19,000	8,000	S	9,000	S	8,000
4-year college/university	7,000	6,000	2,000	4,000	S	2,000
Other educational institution	3,000	1,000	2,000	S	S	S
Government	3,000	2,000	S	1,000	S	1,000
Biological sciences	148,000	61,000	39,000	71,000	16,000	41,000
Business/industry	74,000	29,000	9,000	41,000	9,000	25,000
4-year college/university	30,000	19,000	10,000	9,000	5,000	5,000
Other educational institution	19,000	2,000	17,000	7,000	S	3,000
Government	25,000	11,000	4,000	14,000	2,000	8,000
Environmental life sciences	30,000	12,000	4,000	18,000	5,000	12,000
Business/industry	16,000	6,000	S	11,000	3,000	8,000
4-year college/university	2,000	1,000	1,000	1,000	S	S
Other educational institution	2,000	S	2,000	S	S	S
Government	9,000	5,000	S	5,000	1,000	4,000
Computer/mathematical sciences	375,000	153,000	44,000	190,000	194,000	44,000
Business/industry	286,000	123,000	6,000	155,000	162,000	35,000
4-year college/university	33,000	16,000	13,000	10,000	13,000	3,000
Other educational institution	29,000	5,000	24,000	9,000	5,000	4,000
Government	27,000	9,000	S	16,000	14,000	2,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Computer/information sciences	277,000	116,000	15,000	144,000	163,000	30,000
Business/industry	228,000	98,000	3,000	121,000	139,000	26,000
4-year college/university	17,000	9,000	3,000	6,000	9,000	1,000
Other educational institution	11,000	2,000	7,000	4,000	3,000	S
Government	21,000	6,000	S	13,000	12,000	2,000
Mathematical sciences	98,000	36,000	29,000	47,000	31,000	13,000
Business/industry	58,000	25,000	3,000	34,000	23,000	9,000
4-year college/university	16,000	6,000	9,000	4,000	3,000	1,000
Other educational institution	18,000	2,000	17,000	5,000	2,000	2,000
Government	7,000	3,000	S	4,000	2,000	1,000
Physical/related sciences	130,000	67,000	23,000	58,000	25,000	32,000
Business/industry	79,000	45,000	2,000	40,000	17,000	23,000
4-year college/university	16,000	11,000	5,000	3,000	3,000	3,000
Other educational institution	18,000	3,000	16,000	5,000	1,000	1,000
Government	17,000	9,000	*	11,000	4,000	5,000
Chemistry, except biochemistry	46,000	25,000	10,000	21,000	4,000	12,000
Business/industry	30,000	18,000	S	16,000	3,000	8,000
4-year college/university	5,000	4,000	2,000	1,000	S	1,000
Other educational institution	7,000	1,000	7,000	2,000	S	S
Government	4,000	2,000	S	2,000	*	2,000
Earth/atmospheric/ocean sciences	47,000	22,000	6,000	25,000	10,000	14,000
Business/industry	26,000	12,000	S	15,000	6,000	10,000
4-year college/university	4,000	3,000	1,000	*	*	S
Other educational institution	6,000	1,000	5,000	2,000	S	S
Government	10,000	6,000	S	7,000	3,000	3,000
Physics/astronomy	31,000	18,000	6,000	9,000	10,000	5,000
Business/industry	20,000	13,000	S	7,000	8,000	4,000
4-year college/university	6,000	3,000	2,000	1,000	2,000	*
Other educational institution	4,000	1,000	4,000	1,000	S	S
Government	1,000	1,000	S	1,000	S	S
Other physical sciences	5,000	2,000	1,000	2,000	S	S
Business/industry	3,000	S	S	S	S	S
4-year college/university	S	S	S	S	S	S
Other educational institution	1,000	S	1,000	S	S	S
Government	1,000	S	S	S	S	S
Social/related sciences	670,000	144,000	141,000	403,000	61,000	314,000
Business/industry	350,000	71,000	30,000	250,000	35,000	165,000
4-year college/university	66,000	26,000	21,000	29,000	5,000	22,000
Other educational institution	134,000	22,000	83,000	44,000	9,000	65,000
Government	121,000	25,000	7,000	80,000	12,000	61,000
Economics	72,000	18,000	9,000	51,000	13,000	21,000
Business/industry	52,000	10,000	S	42,000	10,000	17,000
4-year college/university	7,000	3,000	3,000	3,000	1,000	S
Other educational institution	5,000	2,000	4,000	2,000	S	S
Government	8,000	3,000	S	4,000	2,000	3,000
Political/related sciences	97,000	22,000	10,000	74,000	12,000	27,000
Business/industry	52,000	12,000	2,000	43,000	8,000	16,000
4-year college/university	9,000	3,000	2,000	4,000	S	2,000
Other educational institution	5,000	1,000	4,000	2,000	S	S
Government	31,000	6,000	S	24,000	3,000	9,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Psychology	373,000	62,000	89,000	204,000	26,000	224,000
Business/industry	187,000	32,000	23,000	124,000	12,000	108,000
4-year college/university	26,000	8,000	7,000	11,000	1,000	14,000
Other educational institution	102,000	12,000	55,000	33,000	6,000	62,000
Government	58,000	9,000	4,000	37,000	6,000	39,000
Sociology/anthropology	52,000	19,000	13,000	29,000	6,000	17,000
Business/industry	23,000	7,000	2,000	16,000	3,000	9,000
4-year college/university	11,000	6,000	4,000	3,000	2,000	3,000
Other educational institution	7,000	2,000	6,000	2,000	S	S
Government	11,000	4,000	S	7,000	S	5,000
Other social sciences	77,000	23,000	20,000	46,000	5,000	25,000
Business/industry	35,000	10,000	2,000	25,000	3,000	15,000
4-year college/university	13,000	5,000	5,000	7,000	1,000	3,000
Other educational institution	15,000	5,000	12,000	6,000	S	2,000
Government	13,000	3,000	S	7,000	1,000	5,000
Engineering	535,000	313,000	17,000	284,000	141,000	95,000
Business/industry	438,000	261,000	3,000	238,000	122,000	77,000
4-year college/university	28,000	21,000	7,000	5,000	9,000	3,000
Other educational institution	8,000	2,000	7,000	2,000	1,000	1,000
Government	60,000	30,000	S	40,000	9,000	14,000
Aerospace/related engineering	15,000	9,000	1,000	7,000	3,000	3,000
Business/industry	12,000	7,000	S	6,000	2,000	2,000
4-year college/university	1,000	1,000	*	*	*	S
Other educational institution	S	S	S	S	S	S
Government	2,000	2,000	S	1,000	1,000	S
Chemical engineering	27,000	13,000	1,000	17,000	5,000	5,000
Business/industry	23,000	11,000	S	15,000	5,000	4,000
4-year college/university	1,000	1,000	S	S	1,000	S
Other educational institution	S	S	S	S	S	S
Government	2,000	*	S	2,000	S	1,000
Civil/architectural engineering	86,000	44,000	2,000	58,000	14,000	21,000
Business/industry	63,000	34,000	S	44,000	11,000	16,000
4-year college/university	3,000	2,000	1,000	S	S	S
Other educational institution	2,000	S	2,000	S	S	S
Government	18,000	8,000	S	12,000	2,000	5,000
Electrical/computer engineering	194,000	127,000	5,000	84,000	78,000	19,000
Business/industry	171,000	112,000	1,000	75,000	71,000	16,000
4-year college/university	11,000	8,000	3,000	2,000	4,000	S
Other educational institution	1,000	S	1,000	S	S	S
Government	11,000	7,000	S	6,000	3,000	2,000
Industrial engineering	29,000	14,000	1,000	17,000	7,000	6,000
Business/industry	23,000	11,000	S	14,000	6,000	4,000
4-year college/university	1,000	1,000	S	S	S	S
Other educational institution	1,000	S	S	S	S	S
Government	4,000	2,000	S	1,000	S	S
Mechanical engineering	84,000	56,000	3,000	44,000	18,000	12,000
Business/industry	70,000	48,000	S	38,000	16,000	10,000
4-year college/university	5,000	4,000	1,000	1,000	2,000	S
Other educational institution	1,000	S	S	S	S	S
Government	7,000	4,000	S	6,000	1,000	2,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Other engineering	99,000	50,000	4,000	57,000	15,000	30,000
Business/industry	76,000	39,000	S	45,000	12,000	25,000
4-year college/university	6,000	4,000	1,000	1,000	1,000	1,000
Other educational institution	2,000	S	2,000	S	S	S
Government	14,000	7,000	S	11,000	2,000	3,000
S&E-related fields	915,000	197,000	317,000	422,000	81,000	491,000
Business/industry	509,000	119,000	86,000	256,000	49,000	322,000
4-year college/university	81,000	18,000	35,000	39,000	6,000	42,000
Other educational institution	219,000	34,000	179,000	68,000	17,000	63,000
Government	106,000	26,000	16,000	59,000	9,000	63,000
Health	624,000	103,000	199,000	269,000	32,000	433,000
Business/industry	377,000	58,000	82,000	172,000	20,000	288,000
4-year college/university	68,000	15,000	26,000	34,000	4,000	40,000
Other educational institution	103,000	13,000	76,000	24,000	2,000	54,000
Government	77,000	17,000	14,000	38,000	5,000	51,000
Science/mathematics teacher education	147,000	26,000	112,000	59,000	24,000	16,000
Business/industry	22,000	4,000	3,000	11,000	6,000	7,000
4-year college/university	7,000	1,000	6,000	2,000	2,000	S
Other educational institution	111,000	19,000	100,000	42,000	15,000	7,000
Government	6,000	2,000	S	4,000	S	S
Technology/technical fields	49,000	25,000	3,000	27,000	18,000	8,000
Business/industry	40,000	21,000	S	22,000	16,000	6,000
4-year college/university	1,000	1,000	S	S	S	S
Other educational institution	3,000	S	3,000	S	S	S
Government	5,000	S	S	4,000	1,000	2,000
Other S&E-related fields	95,000	43,000	3,000	68,000	7,000	33,000
Business/industry	69,000	35,000	S	51,000	6,000	21,000
4-year college/university	5,000	2,000	2,000	2,000	S	S
Other educational institution	3,000	S	S	S	S	S
Government	17,000	6,000	S	13,000	S	9,000
Non-S&E fields	2,145,000	459,000	577,000	1,419,000	280,000	633,000
Business/industry	1,255,000	296,000	77,000	959,000	190,000	398,000
4-year college/university	107,000	29,000	43,000	62,000	14,000	32,000
Other educational institution	544,000	79,000	437,000	226,000	43,000	112,000
Government	239,000	55,000	22,000	171,000	33,000	90,000
Arts/humanities	97,000	30,000	38,000	49,000	17,000	27,000
Business/industry	50,000	18,000	2,000	30,000	12,000	18,000
4-year college/university	10,000	4,000	6,000	3,000	1,000	4,000
Other educational institution	29,000	5,000	28,000	10,000	3,000	4,000
Government	7,000	2,000	S	5,000	S	2,000
Education, except science/mathematics teacher education	606,000	99,000	388,000	299,000	50,000	147,000
Business/industry	110,000	19,000	12,000	74,000	13,000	50,000
4-year college/university	30,000	8,000	16,000	14,000	3,000	8,000
Other educational institution	438,000	66,000	356,000	191,000	30,000	77,000
Government	29,000	6,000	4,000	19,000	4,000	12,000
Management/administration	882,000	233,000	50,000	712,000	160,000	190,000
Business/industry	749,000	202,000	18,000	618,000	135,000	161,000
4-year college/university	29,000	7,000	6,000	21,000	6,000	8,000
Other educational institution	25,000	2,000	18,000	10,000	4,000	4,000
Government	79,000	20,000	7,000	63,000	15,000	18,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Sales/marketing	90,000	17,000	5,000	81,000	10,000	18,000
Business/industry	82,000	15,000	S	76,000	9,000	15,000
4-year college/university	3,000	S	S	2,000	S	S
Other educational institution	2,000	S	2,000	S	S	S
Government	2,000	S	S	2,000	S	S
Social services/related	248,000	29,000	61,000	128,000	10,000	175,000
Business/industry	163,000	19,000	36,000	91,000	5,000	115,000
4-year college/university	11,000	2,000	4,000	6,000	S	7,000
Other educational institution	31,000	3,000	16,000	10,000	2,000	20,000
Government	44,000	5,000	5,000	21,000	3,000	34,000
Other non-S&E fields	222,000	52,000	36,000	150,000	33,000	75,000
Business/industry	102,000	23,000	6,000	71,000	16,000	39,000
4-year college/university	23,000	6,000	9,000	15,000	4,000	5,000
Other educational institution	19,000	3,000	17,000	4,000	4,000	7,000
Government	79,000	21,000	4,000	60,000	10,000	25,000
Doctorate degrees, all fields	885,000	537,000	286,000	363,000	78,000	192,000
Business/industry	366,000	210,000	19,000	184,000	48,000	110,000
4-year college/university	385,000	266,000	230,000	115,000	16,000	47,000
Other educational institution	59,000	14,000	36,000	26,000	4,000	14,000
Government	75,000	47,000	3,000	38,000	10,000	21,000
S&E fields	690,000	453,000	201,000	269,000	67,000	137,000
Business/industry	303,000	183,000	11,000	148,000	44,000	83,000
4-year college/university	300,000	223,000	171,000	84,000	14,000	33,000
Other educational institution	24,000	4,000	17,000	8,000	1,000	6,000
Government	63,000	42,000	2,000	30,000	7,000	16,000
Sciences	568,000	362,000	178,000	223,000	46,000	124,000
Business/industry	225,000	125,000	10,000	116,000	28,000	73,000
4-year college/university	267,000	197,000	151,000	75,000	11,000	31,000
Other educational institution	22,000	4,000	16,000	7,000	1,000	6,000
Government	53,000	35,000	2,000	25,000	6,000	14,000
Biological/agricultural/environmental life sciences	191,000	137,000	47,000	79,000	8,000	34,000
Business/industry	65,000	40,000	3,000	36,000	4,000	17,000
4-year college/university	100,000	80,000	39,000	32,000	3,000	13,000
Other educational institution	6,000	1,000	5,000	2,000	*	1,000
Government	20,000	16,000	*	9,000	1,000	4,000
Agricultural/food sciences	19,000	13,000	4,000	9,000	1,000	3,000
Business/industry	8,000	4,000	*	5,000	*	2,000
4-year college/university	9,000	7,000	4,000	3,000	*	1,000
Other educational institution	*	S	*	*	S	S
Government	2,000	2,000	S	1,000	*	*
Biological sciences	165,000	120,000	42,000	68,000	7,000	30,000
Business/industry	55,000	35,000	3,000	30,000	4,000	15,000
4-year college/university	89,000	72,000	34,000	29,000	2,000	11,000
Other educational institution	5,000	1,000	4,000	1,000	*	*
Government	16,000	13,000	*	7,000	1,000	3,000
Environmental life sciences	6,000	4,000	1,000	3,000	*	1,000
Business/industry	2,000	1,000	S	1,000	S	*
4-year college/university	2,000	2,000	1,000	1,000	S	*
Other educational institution	*	S	S	S	S	S
Government	2,000	1,000	S	1,000	S	*

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Computer/mathematical sciences	51,000	36,000	23,000	12,000	13,000	4,000
Business/industry	19,000	13,000	*	7,000	9,000	2,000
4-year college/university	28,000	21,000	22,000	5,000	2,000	1,000
Other educational institution	1,000	*	1,000	*	*	*
Government	3,000	2,000	S	1,000	1,000	*
Computer/information sciences	17,000	13,000	5,000	5,000	6,000	1,000
Business/industry	9,000	7,000	S	3,000	4,000	1,000
4-year college/university	7,000	6,000	5,000	1,000	1,000	*
Other educational institution	*	S	*	*	*	S
Government	1,000	*	S	*	*	S
Mathematical sciences	34,000	24,000	18,000	7,000	7,000	3,000
Business/industry	10,000	7,000	*	3,000	5,000	1,000
4-year college/university	21,000	15,000	17,000	4,000	1,000	1,000
Other educational institution	1,000	*	1,000	*	*	*
Government	2,000	2,000	S	1,000	1,000	*
Physical/related sciences	141,000	99,000	34,000	54,000	18,000	18,000
Business/industry	72,000	50,000	2,000	35,000	11,000	12,000
4-year college/university	50,000	39,000	27,000	12,000	5,000	3,000
Other educational institution	5,000	1,000	4,000	1,000	*	1,000
Government	13,000	10,000	*	6,000	2,000	3,000
Chemistry, except biochemistry	71,000	49,000	15,000	32,000	5,000	11,000
Business/industry	43,000	30,000	1,000	23,000	3,000	8,000
4-year college/university	21,000	15,000	11,000	6,000	1,000	2,000
Other educational institution	3,000	*	2,000	1,000	*	*
Government	5,000	3,000	S	2,000	*	1,000
Earth/atmospheric/ocean sciences	18,000	13,000	6,000	6,000	2,000	2,000
Business/industry	5,000	4,000	*	2,000	1,000	1,000
4-year college/university	9,000	7,000	6,000	2,000	1,000	1,000
Other educational institution	1,000	*	*	*	S	S
Government	3,000	2,000	S	2,000	1,000	1,000
Physics/astronomy	48,000	34,000	12,000	15,000	11,000	5,000
Business/industry	22,000	15,000	*	9,000	7,000	3,000
4-year college/university	19,000	15,000	10,000	4,000	3,000	1,000
Other educational institution	1,000	*	1,000	*	S	*
Government	5,000	4,000	S	2,000	1,000	1,000
Other physical sciences	4,000	2,000	1,000	2,000	*	*
Business/industry	2,000	1,000	S	1,000	*	*
4-year college/university	1,000	1,000	*	*	S	S
Other educational institution	S	S	S	S	S	S
Government	*	*	S	*	S	S
Social/related sciences	185,000	90,000	74,000	77,000	7,000	69,000
Business/industry	69,000	22,000	5,000	38,000	4,000	43,000
4-year college/university	88,000	58,000	62,000	25,000	2,000	13,000
Other educational institution	11,000	2,000	6,000	4,000	*	5,000
Government	17,000	8,000	1,000	10,000	1,000	8,000
Economics	24,000	16,000	10,000	9,000	1,000	4,000
Business/industry	7,000	4,000	*	5,000	1,000	3,000
4-year college/university	13,000	9,000	10,000	3,000	*	1,000
Other educational institution	*	S	*	S	S	S
Government	3,000	3,000	S	1,000	*	1,000

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Political/related sciences	21,000	11,000	12,000	9,000	1,000	3,000
Business/industry	5,000	2,000	*	3,000	*	1,000
4-year college/university	13,000	8,000	10,000	4,000	*	1,000
Other educational institution	1,000	*	1,000	1,000	S	*
Government	2,000	1,000	S	1,000	S	1,000
Psychology	96,000	35,000	28,000	42,000	3,000	54,000
Business/industry	47,000	10,000	4,000	24,000	2,000	35,000
4-year college/university	34,000	21,000	21,000	11,000	1,000	8,000
Other educational institution	7,000	1,000	3,000	3,000	*	4,000
Government	9,000	2,000	1,000	5,000	*	6,000
Sociology/anthropology	27,000	17,000	15,000	10,000	1,000	4,000
Business/industry	6,000	3,000	*	3,000	*	2,000
4-year college/university	18,000	12,000	13,000	5,000	*	2,000
Other educational institution	1,000	*	1,000	1,000	S	*
Government	2,000	1,000	S	1,000	*	*
Other social sciences	18,000	11,000	10,000	7,000	1,000	3,000
Business/industry	4,000	2,000	*	3,000	1,000	1,000
4-year college/university	11,000	7,000	8,000	3,000	*	1,000
Other educational institution	1,000	*	1,000	1,000	S	*
Government	1,000	1,000	S	1,000	S	*
Engineering	122,000	91,000	22,000	46,000	21,000	13,000
Business/industry	78,000	58,000	1,000	32,000	16,000	10,000
4-year college/university	33,000	25,000	20,000	9,000	3,000	2,000
Other educational institution	1,000	*	1,000	*	*	S
Government	10,000	7,000	*	5,000	2,000	1,000
Aerospace/related engineering	6,000	5,000	1,000	2,000	1,000	*
Business/industry	4,000	3,000	S	1,000	*	*
4-year college/university	2,000	1,000	1,000	*	*	S
Other educational institution	S	S	S	S	S	S
Government	1,000	1,000	S	*	*	S
Chemical engineering	16,000	12,000	2,000	7,000	2,000	2,000
Business/industry	12,000	9,000	*	5,000	2,000	2,000
4-year college/university	3,000	2,000	2,000	1,000	*	*
Other educational institution	*	S	*	S	S	S
Government	1,000	1,000	S	1,000	S	1,000
Civil/architectural engineering	11,000	7,000	3,000	5,000	2,000	2,000
Business/industry	6,000	3,000	S	3,000	1,000	1,000
4-year college/university	4,000	3,000	3,000	1,000	*	*
Other educational institution	S	S	S	S	S	S
Government	1,000	1,000	S	1,000	*	*
Electrical/computer engineering	36,000	28,000	6,000	12,000	8,000	3,000
Business/industry	24,000	19,000	*	9,000	6,000	2,000
4-year college/university	10,000	7,000	6,000	2,000	1,000	*
Other educational institution	*	S	*	S	S	S
Government	2,000	2,000	S	1,000	1,000	*
Industrial engineering	4,000	2,000	1,000	1,000	1,000	*
Business/industry	2,000	1,000	S	1,000	1,000	*
4-year college/university	2,000	1,000	1,000	*	S	*
Other educational institution	S	S	S	S	S	S
Government	*	*	S	*	S	S

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Mechanical engineering	15,000	11,000	3,000	6,000	3,000	1,000
Business/industry	10,000	8,000	*	4,000	3,000	1,000
4-year college/university	4,000	3,000	3,000	1,000	*	*
Other educational institution	*	S	S	S	S	S
Government	1,000	1,000	S	*	*	S
Other engineering	34,000	25,000	6,000	14,000	5,000	4,000
Business/industry	20,000	15,000	*	9,000	4,000	3,000
4-year college/university	9,000	7,000	5,000	3,000	1,000	1,000
Other educational institution	1,000	S	*	*	S	S
Government	4,000	3,000	S	2,000	1,000	*
S&E-related fields	59,000	34,000	21,000	26,000	3,000	17,000
Business/industry	24,000	14,000	1,000	13,000	1,000	10,000
4-year college/university	27,000	17,000	18,000	8,000	1,000	4,000
Other educational institution	4,000	1,000	2,000	3,000	S	1,000
Government	5,000	2,000	*	3,000	*	3,000
Health	41,000	20,000	13,000	17,000	1,000	16,000
Business/industry	17,000	7,000	1,000	8,000	1,000	9,000
4-year college/university	19,000	12,000	11,000	6,000	1,000	4,000
Other educational institution	1,000	*	*	*	S	*
Government	4,000	2,000	*	3,000	*	3,000
Science/mathematics teacher education	9,000	6,000	6,000	3,000	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	5,000	4,000	5,000	1,000	S	S
Other educational institution	3,000	S	1,000	2,000	S	S
Government	S	S	S	S	S	S
Technology/technical fields	3,000	2,000	S	1,000	1,000	S
Business/industry	2,000	2,000	S	S	1,000	S
4-year college/university	S	S	S	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Other S&E-related fields	7,000	6,000	1,000	5,000	S	S
Business/industry	5,000	5,000	S	S	S	S
4-year college/university	2,000	1,000	1,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Non-S&E fields	136,000	50,000	65,000	68,000	9,000	38,000
Business/industry	40,000	13,000	7,000	23,000	3,000	18,000
4-year college/university	59,000	26,000	41,000	24,000	2,000	10,000
Other educational institution	31,000	8,000	17,000	16,000	3,000	8,000
Government	7,000	3,000	S	5,000	2,000	2,000
Arts/humanities	17,000	6,000	10,000	7,000	2,000	3,000
Business/industry	3,000	1,000	S	2,000	1,000	S
4-year college/university	10,000	4,000	8,000	3,000	S	2,000
Other educational institution	2,000	S	1,000	S	S	S
Government	S	S	S	S	S	S
Education, except science/mathematics teacher education	64,000	19,000	30,000	34,000	5,000	17,000
Business/industry	11,000	4,000	2,000	5,000	S	5,000
4-year college/university	26,000	10,000	15,000	14,000	1,000	5,000
Other educational institution	25,000	6,000	12,000	14,000	S	6,000
Government	2,000	S	S	2,000	S	S

TABLE 13. Employed U.S. scientists and engineers, by level and field of highest degree, employment sector, and primary/secondary work activity: 2003

Level and field of highest degree and employment sector	Employed scientists and engineers	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, administration	Computer applications	Other
Management/administration	14,000	7,000	7,000	7,000	S	3,000
Business/industry	7,000	3,000	S	5,000	S	3,000
4-year college/university	7,000	4,000	7,000	3,000	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Sales/marketing	2,000	1,000	1,000	S	S	S
Business/industry	S	S	S	S	S	S
4-year college/university	1,000	1,000	1,000	S	S	S
Other educational institution	S	S	S	S	S	S
Government	S	S	S	S	S	S
Social services/related	19,000	6,000	12,000	8,000	S	8,000
Business/industry	8,000	S	4,000	4,000	S	5,000
4-year college/university	7,000	3,000	6,000	3,000	S	2,000
Other educational institution	2,000	S	S	S	S	S
Government	S	S	S	S	S	S
Other non-S&E fields	21,000	10,000	6,000	11,000	1,000	7,000
Business/industry	11,000	4,000	S	8,000	S	4,000
4-year college/university	7,000	4,000	5,000	1,000	S	1,000
Other educational institution	1,000	S	S	S	S	S
Government	2,000	S	S	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/ed03maj.html> for a detailed description of the educational field 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, military, state, and local employers. Numbers are rounded to the nearest thousand. Detail may not add to total because of rounding and multiple response to work activity.

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