

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Educational institution									
		Business/industry				4-year college/university			Government		
		Total	Profit	Self-employed	Nonprofit	Total	Other	Total	Federal	State/local	
All degree levels and fields ^a	18,021,000	12,477,000	9,678,000	1,241,000	1,559,000	3,401,000	1,505,000	1,896,000	2,142,000	803,000	1,339,000
Male	10,437,000	7,750,000	6,479,000	752,000	519,000	1,437,000	751,000	686,000	1,250,000	548,000	701,000
Female	7,585,000	4,728,000	3,199,000	489,000	1,040,000	1,964,000	754,000	1,210,000	892,000	255,000	638,000
S&E fields	9,579,000	6,826,000	5,658,000	562,000	606,000	1,498,000	810,000	688,000	1,255,000	511,000	744,000
Male	6,153,000	4,633,000	4,061,000	344,000	228,000	716,000	472,000	245,000	805,000	367,000	437,000
Female	3,426,000	2,194,000	1,598,000	218,000	378,000	781,000	338,000	443,000	451,000	144,000	307,000
Sciences	7,245,000	4,879,000	3,852,000	466,000	562,000	1,372,000	717,000	655,000	994,000	375,000	619,000
Male	4,090,000	2,891,000	2,439,000	261,000	191,000	617,000	392,000	225,000	582,000	249,000	333,000
Female	3,156,000	1,989,000	1,413,000	205,000	371,000	755,000	325,000	430,000	412,000	126,000	286,000
Biological/agricultural/environmental life sciences	1,481,000	911,000	700,000	95,000	116,000	353,000	247,000	106,000	217,000	94,000	123,000
Male	843,000	522,000	414,000	63,000	44,000	180,000	138,000	42,000	141,000	65,000	76,000
Female	638,000	389,000	286,000	31,000	72,000	173,000	109,000	64,000	76,000	29,000	47,000
Agricultural/food sciences	249,000	176,000	137,000	29,000	9,000	40,000	25,000	15,000	34,000	20,000	14,000
Male	164,000	113,000	90,000	20,000	3,000	26,000	16,000	11,000	24,000	15,000	9,000
Female	85,000	62,000	47,000	9,000	6,000	14,000	9,000	4,000	10,000	5,000	4,000
Biological sciences	1,081,000	645,000	488,000	57,000	100,000	296,000	211,000	85,000	139,000	57,000	82,000
Male	573,000	346,000	271,000	35,000	39,000	143,000	115,000	29,000	84,000	38,000	46,000
Female	508,000	300,000	217,000	21,000	61,000	153,000	97,000	56,000	55,000	19,000	36,000
Environmental life sciences	151,000	90,000	75,000	8,000	6,000	17,000	11,000	6,000	44,000	17,000	28,000
Male	107,000	63,000	53,000	8,000	2,000	10,000	7,000	3,000	33,000	12,000	21,000
Female	44,000	27,000	22,000	S	4,000	7,000	4,000	3,000	11,000	4,000	7,000
Computer/mathematical sciences	1,437,000	1,113,000	1,011,000	52,000	50,000	210,000	101,000	109,000	114,000	58,000	57,000
Male	967,000	775,000	722,000	32,000	22,000	114,000	67,000	47,000	77,000	39,000	39,000
Female	470,000	337,000	289,000	20,000	28,000	96,000	33,000	62,000	37,000	19,000	18,000
Computer/information sciences	961,000	798,000	735,000	30,000	34,000	85,000	49,000	35,000	78,000	38,000	41,000
Male	671,000	566,000	532,000	18,000	15,000	53,000	35,000	18,000	53,000	26,000	27,000
Female	290,000	232,000	202,000	11,000	18,000	32,000	15,000	17,000	26,000	12,000	14,000
Mathematical sciences	476,000	315,000	277,000	22,000	16,000	125,000	51,000	74,000	36,000	20,000	16,000
Male	296,000	210,000	189,000	14,000	6,000	62,000	32,000	29,000	25,000	13,000	12,000
Female	180,000	105,000	87,000	9,000	10,000	63,000	19,000	45,000	11,000	7,000	5,000
Physical/related sciences	694,000	458,000	399,000	35,000	23,000	154,000	101,000	52,000	82,000	41,000	41,000
Male	513,000	347,000	307,000	28,000	13,000	104,000	71,000	33,000	62,000	33,000	29,000
Female	181,000	110,000	93,000	7,000	11,000	50,000	30,000	20,000	21,000	8,000	12,000
Chemistry, except biochemistry	326,000	230,000	203,000	13,000	14,000	68,000	44,000	24,000	28,000	13,000	15,000
Male	219,000	156,000	140,000	10,000	7,000	43,000	29,000	14,000	20,000	9,000	11,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	107,000	74,000	63,000	4,000	7,000	26,000	16,000	10,000	7,000	3,000	4,000
Earth/atmospheric/ocean sciences	170,000	105,000	87,000	14,000	4,000	31,000	17,000	13,000	34,000	15,000	20,000
Male	136,000	88,000	74,000	12,000	2,000	22,000	11,000	10,000	26,000	13,000	14,000
Female	35,000	17,000	13,000	2,000	2,000	9,000	6,000	3,000	8,000	2,000	6,000
Physics/astronomy	152,000	95,000	85,000	5,000	4,000	46,000	34,000	12,000	12,000	11,000	1,000
Male	130,000	86,000	77,000	5,000	4,000	36,000	29,000	7,000	9,000	8,000	1,000
Female	22,000	9,000	8,000	*	1,000	10,000	5,000	5,000	3,000	2,000	1,000
Other physical sciences	45,000	27,000	24,000	2,000	1,000	9,000	6,000	3,000	9,000	3,000	5,000
Male	28,000	17,000	16,000	1,000	S	4,000	3,000	1,000	6,000	3,000	4,000
Female	17,000	10,000	8,000	1,000	S	5,000	3,000	2,000	2,000	1,000	2,000
Social/related sciences	3,633,000	2,399,000	1,741,000	284,000	373,000	655,000	268,000	387,000	580,000	182,000	398,000
Male	1,766,000	1,246,000	996,000	138,000	112,000	219,000	116,000	103,000	302,000	112,000	190,000
Female	1,867,000	1,153,000	745,000	147,000	261,000	436,000	152,000	285,000	278,000	70,000	208,000
Economics	551,000	467,000	394,000	51,000	22,000	43,000	29,000	13,000	41,000	21,000	20,000
Male	418,000	355,000	304,000	40,000	12,000	31,000	23,000	8,000	32,000	15,000	16,000
Female	133,000	111,000	91,000	11,000	10,000	11,000	6,000	5,000	10,000	6,000	4,000
Political/related sciences	666,000	464,000	365,000	45,000	53,000	76,000	42,000	34,000	126,000	54,000	72,000
Male	421,000	298,000	249,000	24,000	25,000	36,000	20,000	16,000	87,000	42,000	46,000
Female	244,000	166,000	116,000	21,000	29,000	39,000	21,000	18,000	39,000	12,000	27,000
Psychology	1,335,000	814,000	518,000	120,000	176,000	314,000	103,000	212,000	207,000	46,000	161,000
Male	445,000	292,000	209,000	40,000	44,000	80,000	35,000	45,000	72,000	20,000	53,000
Female	891,000	522,000	310,000	80,000	132,000	234,000	67,000	167,000	134,000	26,000	108,000
Sociology/anthropology	684,000	410,000	286,000	38,000	86,000	127,000	56,000	70,000	147,000	36,000	111,000
Male	278,000	171,000	135,000	15,000	20,000	34,000	20,000	14,000	73,000	18,000	56,000
Female	406,000	239,000	151,000	23,000	66,000	93,000	36,000	57,000	74,000	18,000	55,000
Other social sciences	398,000	244,000	178,000	30,000	36,000	96,000	38,000	58,000	58,000	25,000	33,000
Male	204,000	130,000	100,000	18,000	12,000	38,000	17,000	21,000	37,000	18,000	19,000
Female	193,000	114,000	78,000	12,000	24,000	58,000	21,000	37,000	21,000	7,000	14,000
Engineering	2,334,000	1,947,000	1,807,000	96,000	44,000	126,000	93,000	33,000	261,000	137,000	125,000
Male	2,064,000	1,742,000	1,622,000	83,000	37,000	99,000	79,000	20,000	223,000	118,000	104,000
Female	270,000	205,000	185,000	14,000	7,000	27,000	14,000	13,000	39,000	18,000	21,000
Aerospace/related engineering	85,000	70,000	63,000	4,000	3,000	4,000	4,000	*	11,000	9,000	1,000
Male	77,000	65,000	59,000	3,000	2,000	3,000	3,000	S	9,000	8,000	1,000
Female	8,000	5,000	4,000	S	S	1,000	1,000	S	2,000	2,000	S
Chemical engineering	159,000	135,000	129,000	4,000	2,000	11,000	9,000	2,000	14,000	9,000	5,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	126,000	109,000	105,000	3,000	1,000	7,000	7,000	1,000	9,000	7,000	2,000
Female	34,000	25,000	24,000	*	1,000	3,000	2,000	2,000	5,000	2,000	3,000
Civil/architectural engineering	385,000	283,000	257,000	21,000	6,000	15,000	9,000	5,000	88,000	20,000	68,000
Male	342,000	254,000	230,000	18,000	5,000	11,000	8,000	4,000	76,000	17,000	59,000
Female	43,000	29,000	26,000	2,000	S	3,000	2,000	2,000	11,000	2,000	9,000
Electrical/computer engineering	748,000	655,000	617,000	25,000	13,000	37,000	30,000	8,000	56,000	41,000	15,000
Male	668,000	588,000	557,000	19,000	11,000	32,000	28,000	4,000	48,000	36,000	12,000
Female	81,000	68,000	60,000	6,000	2,000	5,000	2,000	3,000	8,000	5,000	3,000
Industrial engineering	134,000	116,000	108,000	4,000	4,000	6,000	3,000	3,000	12,000	7,000	5,000
Male	111,000	99,000	93,000	3,000	4,000	4,000	2,000	2,000	7,000	5,000	2,000
Female	23,000	16,000	15,000	1,000	1,000	2,000	1,000	1,000	5,000	1,000	3,000
Mechanical engineering	492,000	426,000	397,000	20,000	9,000	23,000	16,000	7,000	42,000	29,000	13,000
Male	455,000	396,000	370,000	19,000	8,000	18,000	14,000	4,000	41,000	28,000	13,000
Female	37,000	30,000	28,000	1,000	2,000	5,000	2,000	3,000	2,000	1,000	*
Other engineering	330,000	262,000	236,000	20,000	6,000	29,000	22,000	7,000	39,000	22,000	17,000
Male	286,000	231,000	209,000	18,000	5,000	23,000	17,000	5,000	32,000	18,000	14,000
Female	44,000	30,000	27,000	2,000	1,000	7,000	5,000	2,000	7,000	4,000	3,000
S&E-related fields	4,383,000	3,093,000	2,075,000	389,000	630,000	906,000	469,000	438,000	384,000	135,000	249,000
Male	1,921,000	1,483,000	1,104,000	226,000	153,000	283,000	165,000	118,000	156,000	69,000	87,000
Female	2,462,000	1,610,000	970,000	163,000	477,000	624,000	304,000	320,000	229,000	66,000	163,000
Health	3,373,000	2,435,000	1,541,000	297,000	597,000	635,000	433,000	201,000	304,000	110,000	194,000
Male	1,226,000	965,000	674,000	159,000	132,000	162,000	145,000	17,000	98,000	52,000	47,000
Female	2,148,000	1,470,000	867,000	138,000	465,000	472,000	288,000	185,000	206,000	58,000	147,000
Science/mathematics teacher education	340,000	94,000	64,000	19,000	11,000	230,000	15,000	214,000	16,000	6,000	10,000
Male	151,000	49,000	35,000	9,000	5,000	93,000	6,000	88,000	8,000	3,000	5,000
Female	189,000	45,000	29,000	10,000	6,000	136,000	10,000	127,000	8,000	3,000	5,000
Technology/technical fields	334,000	288,000	256,000	21,000	11,000	19,000	8,000	11,000	27,000	12,000	14,000
Male	292,000	254,000	227,000	18,000	9,000	15,000	6,000	9,000	23,000	10,000	13,000
Female	42,000	34,000	29,000	3,000	2,000	4,000	2,000	2,000	4,000	2,000	1,000
Other S&E-related fields	336,000	276,000	214,000	51,000	11,000	23,000	12,000	11,000	37,000	6,000	31,000
Male	253,000	215,000	168,000	40,000	7,000	13,000	8,000	5,000	26,000	4,000	22,000
Female	83,000	61,000	46,000	11,000	4,000	11,000	4,000	6,000	12,000	2,000	9,000
Non-S&E fields	4,059,000	2,558,000	1,945,000	290,000	324,000	998,000	227,000	771,000	503,000	157,000	346,000
Male	2,362,000	1,634,000	1,314,000	182,000	138,000	438,000	114,000	324,000	290,000	112,000	177,000
Female	1,697,000	924,000	631,000	108,000	185,000	559,000	112,000	447,000	213,000	45,000	168,000

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Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Arts/humanities	366,000	241,000	176,000	37,000	28,000	95,000	34,000	61,000	30,000	9,000	21,000
Male	196,000	136,000	100,000	18,000	18,000	44,000	16,000	28,000	16,000	6,000	10,000
Female	169,000	104,000	76,000	18,000	10,000	51,000	18,000	33,000	14,000	3,000	11,000
Education, except science/mathematics teacher education	890,000	201,000	133,000	23,000	44,000	638,000	62,000	576,000	51,000	13,000	38,000
Male	365,000	86,000	63,000	10,000	13,000	258,000	26,000	232,000	20,000	7,000	13,000
Female	525,000	115,000	70,000	13,000	31,000	380,000	35,000	344,000	31,000	6,000	25,000
Management/administration	1,367,000	1,137,000	995,000	65,000	77,000	100,000	52,000	48,000	130,000	62,000	68,000
Male	986,000	839,000	759,000	46,000	34,000	56,000	30,000	26,000	92,000	48,000	44,000
Female	380,000	299,000	236,000	20,000	43,000	44,000	22,000	22,000	38,000	14,000	24,000
Sales/marketing	144,000	127,000	110,000	10,000	7,000	11,000	7,000	4,000	7,000	3,000	4,000
Male	93,000	82,000	74,000	5,000	3,000	7,000	3,000	4,000	4,000	S	2,000
Female	52,000	45,000	36,000	5,000	4,000	4,000	4,000	S	S	S	S
Social services/related	317,000	211,000	74,000	26,000	110,000	56,000	21,000	35,000	50,000	6,000	44,000
Male	141,000	99,000	39,000	11,000	49,000	25,000	11,000	14,000	17,000	5,000	12,000
Female	176,000	112,000	35,000	15,000	61,000	31,000	10,000	21,000	34,000	1,000	32,000
Other non-S&E fields	975,000	642,000	457,000	128,000	57,000	98,000	52,000	47,000	235,000	64,000	171,000
Male	581,000	392,000	279,000	92,000	21,000	48,000	28,000	20,000	141,000	44,000	96,000
Female	394,000	250,000	178,000	36,000	36,000	50,000	23,000	27,000	94,000	20,000	74,000
Bachelor's degrees	10,490,000	7,801,000	6,256,000	603,000	942,000	1,408,000	566,000	841,000	1,281,000	449,000	831,000
Male	5,912,000	4,665,000	4,053,000	350,000	262,000	499,000	215,000	284,000	748,000	307,000	442,000
Female	4,578,000	3,136,000	2,203,000	253,000	681,000	909,000	352,000	557,000	532,000	143,000	389,000
S&E fields	6,953,000	5,250,000	4,405,000	404,000	442,000	775,000	326,000	450,000	927,000	343,000	585,000
Male	4,424,000	3,524,000	3,113,000	255,000	156,000	308,000	160,000	148,000	592,000	247,000	345,000
Female	2,529,000	1,727,000	1,292,000	149,000	286,000	467,000	165,000	302,000	335,000	96,000	240,000
Sciences	5,276,000	3,819,000	3,077,000	333,000	409,000	721,000	294,000	427,000	736,000	247,000	489,000
Male	2,936,000	2,239,000	1,918,000	193,000	129,000	269,000	134,000	134,000	428,000	163,000	265,000
Female	2,340,000	1,580,000	1,159,000	140,000	281,000	452,000	159,000	293,000	308,000	83,000	225,000
Biological/agricultural/environmental life sciences	1,082,000	737,000	571,000	78,000	88,000	184,000	108,000	77,000	160,000	61,000	99,000
Male	601,000	417,000	333,000	51,000	33,000	79,000	50,000	29,000	105,000	44,000	61,000
Female	481,000	320,000	238,000	27,000	55,000	105,000	58,000	48,000	55,000	17,000	38,000
Agricultural/food sciences	199,000	149,000	116,000	26,000	7,000	21,000	9,000	12,000	29,000	16,000	12,000
Male	130,000	96,000	76,000	18,000	S	13,000	4,000	9,000	21,000	12,000	8,000
Female	69,000	53,000	40,000	8,000	5,000	8,000	5,000	3,000	8,000	4,000	4,000
Biological sciences	767,000	517,000	393,000	46,000	78,000	153,000	92,000	61,000	98,000	35,000	63,000
Male	389,000	271,000	214,000	27,000	30,000	59,000	41,000	18,000	59,000	24,000	35,000

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Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	378,000	246,000	179,000	19,000	48,000	93,000	51,000	43,000	39,000	11,000	28,000
Environmental life sciences	116,000	72,000	62,000	6,000	4,000	10,000	6,000	4,000	34,000	10,000	24,000
Male	82,000	50,000	43,000	6,000	1,000	6,000	4,000	2,000	25,000	8,000	18,000
Female	34,000	21,000	19,000	S	2,000	4,000	2,000	2,000	8,000	2,000	6,000
Computer/mathematical sciences	1,010,000	807,000	732,000	37,000	39,000	119,000	39,000	79,000	85,000	39,000	45,000
Male	670,000	556,000	517,000	24,000	16,000	58,000	26,000	32,000	56,000	25,000	31,000
Female	340,000	251,000	215,000	13,000	23,000	60,000	13,000	47,000	28,000	14,000	14,000
Computer/information sciences	667,000	561,000	515,000	20,000	26,000	49,000	25,000	24,000	57,000	25,000	32,000
Male	460,000	392,000	368,000	13,000	11,000	31,000	18,000	12,000	37,000	15,000	22,000
Female	207,000	169,000	146,000	8,000	15,000	18,000	6,000	12,000	20,000	10,000	11,000
Mathematical sciences	343,000	247,000	217,000	16,000	13,000	70,000	15,000	55,000	27,000	14,000	13,000
Male	210,000	164,000	148,000	11,000	5,000	27,000	8,000	19,000	19,000	10,000	9,000
Female	133,000	83,000	69,000	6,000	8,000	42,000	7,000	36,000	8,000	4,000	4,000
Physical/related sciences	423,000	306,000	268,000	23,000	15,000	65,000	35,000	30,000	53,000	22,000	31,000
Male	299,000	225,000	200,000	18,000	7,000	36,000	20,000	16,000	38,000	17,000	21,000
Female	125,000	81,000	68,000	5,000	8,000	29,000	15,000	13,000	15,000	5,000	10,000
Chemistry, except biochemistry	209,000	157,000	136,000	10,000	11,000	32,000	18,000	14,000	19,000	8,000	11,000
Male	133,000	101,000	89,000	7,000	5,000	18,000	9,000	8,000	14,000	6,000	8,000
Female	76,000	57,000	48,000	3,000	6,000	15,000	9,000	6,000	5,000	2,000	3,000
Earth/atmospheric/ocean sciences	105,000	74,000	63,000	8,000	2,000	10,000	4,000	7,000	21,000	7,000	14,000
Male	85,000	63,000	54,000	8,000	1,000	7,000	2,000	5,000	15,000	6,000	9,000
Female	20,000	10,000	9,000	1,000	1,000	4,000	2,000	2,000	6,000	1,000	5,000
Physics/astronomy	73,000	52,000	49,000	2,000	1,000	15,000	8,000	7,000	5,000	5,000	S
Male	59,000	47,000	44,000	2,000	1,000	9,000	7,000	3,000	4,000	3,000	S
Female	14,000	6,000	5,000	S	*	6,000	2,000	4,000	2,000	1,000	S
Other physical sciences	36,000	23,000	19,000	2,000	S	7,000	5,000	2,000	7,000	2,000	5,000
Male	22,000	14,000	13,000	S	S	3,000	S	S	5,000	1,000	4,000
Female	15,000	8,000	6,000	S	S	4,000	3,000	S	2,000	S	2,000
Social/related sciences	2,760,000	1,969,000	1,507,000	195,000	267,000	353,000	112,000	241,000	439,000	125,000	314,000
Male	1,366,000	1,041,000	868,000	101,000	72,000	95,000	38,000	57,000	229,000	77,000	152,000
Female	1,395,000	928,000	639,000	95,000	194,000	257,000	73,000	184,000	210,000	48,000	162,000
Economics	455,000	407,000	350,000	42,000	15,000	18,000	10,000	8,000	30,000	13,000	17,000
Male	346,000	310,000	269,000	33,000	8,000	12,000	8,000	4,000	24,000	10,000	15,000
Female	109,000	98,000	80,000	10,000	7,000	6,000	2,000	3,000	6,000	3,000	3,000
Political/related sciences	548,000	407,000	323,000	40,000	44,000	48,000	20,000	28,000	94,000	33,000	61,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	347,000	265,000	224,000	20,000	21,000	19,000	8,000	11,000	62,000	24,000	38,000
Female	201,000	141,000	99,000	19,000	24,000	29,000	12,000	17,000	31,000	9,000	22,000
Psychology	849,000	569,000	410,000	54,000	105,000	142,000	41,000	102,000	137,000	28,000	109,000
Male	274,000	199,000	162,000	19,000	18,000	28,000	10,000	18,000	47,000	14,000	33,000
Female	574,000	370,000	248,000	35,000	87,000	114,000	30,000	84,000	90,000	14,000	76,000
Sociology/anthropology	605,000	381,000	268,000	35,000	79,000	90,000	27,000	63,000	134,000	32,000	102,000
Male	243,000	159,000	127,000	14,000	18,000	17,000	7,000	10,000	67,000	15,000	51,000
Female	362,000	222,000	140,000	21,000	61,000	73,000	20,000	52,000	67,000	16,000	51,000
Other social sciences	303,000	204,000	157,000	24,000	23,000	55,000	14,000	41,000	44,000	19,000	25,000
Male	156,000	108,000	85,000	14,000	9,000	19,000	5,000	14,000	29,000	14,000	15,000
Female	147,000	96,000	72,000	10,000	15,000	36,000	8,000	28,000	15,000	5,000	10,000
Engineering	1,677,000	1,431,000	1,328,000	71,000	32,000	55,000	32,000	23,000	191,000	96,000	95,000
Male	1,488,000	1,285,000	1,195,000	62,000	27,000	40,000	26,000	14,000	164,000	83,000	80,000
Female	189,000	146,000	132,000	9,000	5,000	15,000	6,000	9,000	27,000	13,000	15,000
Aerospace/related engineering	64,000	54,000	50,000	3,000	2,000	2,000	1,000	S	8,000	7,000	S
Male	57,000	50,000	46,000	2,000	2,000	1,000	1,000	S	6,000	5,000	S
Female	7,000	4,000	3,000	S	S	1,000	1,000	S	1,000	1,000	S
Chemical engineering	116,000	100,000	96,000	3,000	2,000	6,000	4,000	1,000	10,000	7,000	3,000
Male	90,000	79,000	76,000	2,000	*	4,000	3,000	S	7,000	5,000	2,000
Female	26,000	21,000	20,000	*	1,000	2,000	1,000	1,000	3,000	2,000	1,000
Civil/architectural engineering	288,000	214,000	194,000	16,000	4,000	6,000	3,000	3,000	68,000	15,000	53,000
Male	258,000	192,000	174,000	15,000	4,000	5,000	2,000	3,000	60,000	14,000	46,000
Female	30,000	21,000	20,000	S	S	1,000	1,000	S	8,000	1,000	6,000
Electrical/computer engineering	518,000	461,000	436,000	16,000	9,000	15,000	9,000	6,000	42,000	30,000	13,000
Male	466,000	417,000	399,000	11,000	8,000	12,000	9,000	3,000	37,000	26,000	10,000
Female	53,000	43,000	37,000	5,000	1,000	3,000	*	3,000	6,000	4,000	2,000
Industrial engineering	101,000	91,000	84,000	3,000	4,000	2,000	1,000	2,000	7,000	3,000	4,000
Male	83,000	78,000	72,000	3,000	4,000	1,000	*	S	4,000	3,000	1,000
Female	17,000	13,000	12,000	1,000	*	1,000	*	S	3,000	*	S
Mechanical engineering	393,000	346,000	320,000	18,000	8,000	13,000	7,000	6,000	34,000	23,000	12,000
Male	362,000	320,000	297,000	17,000	7,000	9,000	5,000	3,000	33,000	22,000	11,000
Female	31,000	25,000	23,000	S	2,000	4,000	1,000	3,000	1,000	1,000	*
Other engineering	197,000	165,000	149,000	13,000	4,000	11,000	7,000	4,000	21,000	11,000	10,000
Male	172,000	147,000	131,000	12,000	4,000	8,000	5,000	3,000	16,000	8,000	8,000
Female	25,000	18,000	17,000	S	S	2,000	2,000	S	5,000	3,000	2,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
S&E-related fields	2,322,000	1,704,000	1,163,000	138,000	403,000	397,000	191,000	206,000	221,000	68,000	153,000
Male	824,000	652,000	524,000	64,000	63,000	89,000	32,000	57,000	83,000	34,000	49,000
Female	1,498,000	1,052,000	639,000	74,000	340,000	308,000	159,000	149,000	138,000	34,000	104,000
Health	1,621,000	1,186,000	739,000	67,000	380,000	265,000	176,000	89,000	170,000	49,000	120,000
Male	313,000	242,000	183,000	12,000	47,000	29,000	23,000	6,000	42,000	21,000	21,000
Female	1,308,000	944,000	556,000	55,000	333,000	236,000	153,000	83,000	128,000	29,000	99,000
Science/mathematics teacher education	185,000	72,000	50,000	13,000	8,000	103,000	S	101,000	10,000	5,000	5,000
Male	85,000	38,000	27,000	5,000	5,000	41,000	S	41,000	6,000	2,000	4,000
Female	99,000	34,000	23,000	8,000	3,000	62,000	S	59,000	4,000	3,000	1,000
Technology/technical fields	282,000	246,000	215,000	20,000	10,000	15,000	6,000	8,000	21,000	9,000	13,000
Male	248,000	218,000	193,000	17,000	9,000	11,000	5,000	7,000	19,000	8,000	12,000
Female	33,000	28,000	23,000	3,000	2,000	3,000	S	2,000	2,000	1,000	1,000
Other S&E-related fields	235,000	201,000	159,000	38,000	4,000	13,000	5,000	8,000	20,000	5,000	14,000
Male	177,000	155,000	122,000	30,000	3,000	7,000	4,000	3,000	16,000	4,000	12,000
Female	57,000	47,000	37,000	8,000	S	7,000	S	S	4,000	2,000	2,000
Non-S&E degrees	1,215,000	847,000	688,000	61,000	98,000	236,000	50,000	186,000	132,000	38,000	94,000
Male	664,000	489,000	416,000	31,000	42,000	101,000	23,000	79,000	74,000	26,000	48,000
Female	551,000	358,000	272,000	30,000	55,000	134,000	27,000	107,000	59,000	12,000	46,000
Arts/humanities	252,000	187,000	142,000	21,000	24,000	43,000	14,000	29,000	22,000	6,000	16,000
Male	139,000	106,000	81,000	9,000	16,000	19,000	6,000	14,000	13,000	5,000	9,000
Female	114,000	81,000	61,000	12,000	8,000	24,000	9,000	15,000	9,000	1,000	7,000
Education, except science/mathematics teacher education	217,000	80,000	61,000	5,000	13,000	116,000	5,000	111,000	21,000	4,000	17,000
Male	77,000	26,000	21,000	S	4,000	46,000	S	45,000	5,000	1,000	4,000
Female	140,000	53,000	40,000	4,000	9,000	70,000	4,000	66,000	16,000	3,000	13,000
Management/administration	468,000	379,000	326,000	21,000	32,000	38,000	15,000	23,000	51,000	16,000	34,000
Male	315,000	262,000	234,000	13,000	15,000	20,000	10,000	10,000	33,000	13,000	20,000
Female	153,000	118,000	93,000	7,000	18,000	18,000	5,000	12,000	17,000	4,000	14,000
Sales/marketing	53,000	45,000	40,000	S	S	4,000	2,000	2,000	4,000	S	S
Male	27,000	23,000	22,000	S	S	3,000	S	2,000	S	S	S
Female	26,000	22,000	18,000	S	S	S	S	S	S	S	S
Social services/related	40,000	31,000	22,000	2,000	7,000	3,000	2,000	S	6,000	S	5,000
Male	22,000	18,000	14,000	S	2,000	2,000	S	S	2,000	S	1,000
Female	18,000	13,000	8,000	S	4,000	S	S	S	4,000	S	4,000
Other non-S&E fields	185,000	125,000	97,000	10,000	18,000	31,000	11,000	20,000	29,000	8,000	21,000
Male	84,000	55,000	44,000	6,000	4,000	11,000	3,000	8,000	18,000	5,000	13,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	101,000	71,000	53,000	4,000	14,000	20,000	7,000	12,000	10,000	3,000	8,000
Master's degrees	4,979,000	3,026,000	2,293,000	293,000	440,000	1,346,000	370,000	976,000	607,000	239,000	368,000
Male	2,756,000	1,896,000	1,596,000	155,000	144,000	522,000	163,000	359,000	339,000	161,000	177,000
Female	2,223,000	1,130,000	697,000	138,000	296,000	824,000	206,000	618,000	268,000	77,000	191,000
S&E fields	1,919,000	1,262,000	1,020,000	114,000	128,000	395,000	182,000	213,000	262,000	122,000	140,000
Male	1,211,000	870,000	756,000	63,000	50,000	176,000	95,000	82,000	165,000	86,000	79,000
Female	708,000	392,000	265,000	51,000	77,000	218,000	87,000	131,000	97,000	36,000	61,000
Sciences	1,384,000	824,000	611,000	93,000	120,000	358,000	154,000	205,000	202,000	89,000	112,000
Male	748,000	484,000	393,000	47,000	44,000	148,000	71,000	77,000	115,000	58,000	57,000
Female	637,000	340,000	218,000	46,000	76,000	211,000	83,000	128,000	86,000	31,000	55,000
Biological/agricultural/environmental life sciences	209,000	109,000	80,000	12,000	17,000	63,000	39,000	23,000	37,000	17,000	20,000
Male	111,000	59,000	45,000	9,000	5,000	29,000	20,000	10,000	23,000	10,000	12,000
Female	98,000	50,000	35,000	3,000	12,000	33,000	19,000	14,000	14,000	7,000	8,000
Agricultural/food sciences	31,000	19,000	14,000	3,000	2,000	9,000	7,000	3,000	3,000	2,000	1,000
Male	18,000	10,000	8,000	2,000	S	6,000	5,000	1,000	2,000	1,000	1,000
Female	13,000	8,000	6,000	S	1,000	3,000	2,000	1,000	2,000	1,000	S
Biological sciences	148,000	74,000	54,000	7,000	13,000	49,000	30,000	19,000	25,000	9,000	16,000
Male	72,000	37,000	27,000	5,000	4,000	21,000	14,000	8,000	14,000	5,000	9,000
Female	75,000	37,000	26,000	2,000	9,000	28,000	16,000	11,000	11,000	4,000	7,000
Environmental life sciences	30,000	16,000	12,000	S	2,000	4,000	2,000	2,000	9,000	6,000	3,000
Male	20,000	11,000	9,000	S	S	2,000	1,000	S	7,000	4,000	3,000
Female	10,000	5,000	3,000	S	2,000	2,000	1,000	S	2,000	2,000	S
Computer/mathematical sciences	375,000	286,000	263,000	14,000	10,000	62,000	33,000	29,000	27,000	16,000	11,000
Male	255,000	202,000	190,000	7,000	5,000	33,000	19,000	14,000	19,000	12,000	7,000
Female	120,000	84,000	73,000	7,000	4,000	29,000	14,000	14,000	8,000	4,000	4,000
Computer/information sciences	277,000	228,000	211,000	9,000	8,000	29,000	17,000	11,000	21,000	12,000	8,000
Male	196,000	166,000	156,000	5,000	4,000	16,000	10,000	5,000	15,000	10,000	5,000
Female	80,000	62,000	55,000	4,000	4,000	13,000	7,000	6,000	5,000	2,000	3,000
Mathematical sciences	98,000	58,000	51,000	5,000	2,000	33,000	16,000	18,000	7,000	4,000	3,000
Male	58,000	37,000	34,000	2,000	1,000	18,000	8,000	9,000	4,000	2,000	2,000
Female	40,000	21,000	17,000	3,000	1,000	16,000	7,000	9,000	3,000	2,000	1,000
Physical/related sciences	130,000	79,000	68,000	8,000	4,000	34,000	16,000	18,000	17,000	9,000	7,000
Male	94,000	60,000	52,000	7,000	1,000	22,000	9,000	13,000	13,000	7,000	6,000
Female	35,000	19,000	16,000	1,000	2,000	12,000	7,000	5,000	4,000	2,000	2,000
Chemistry, except biochemistry	46,000	30,000	28,000	1,000	1,000	13,000	5,000	7,000	4,000	2,000	2,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Employment sector									
		Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	28,000	20,000	19,000	S	S	6,000	2,000	4,000	2,000	1,000	1,000
Female	18,000	10,000	9,000	S	S	6,000	3,000	3,000	2,000	1,000	1,000
Earth/atmospheric/ocean sciences	47,000	26,000	19,000	5,000	2,000	11,000	4,000	6,000	10,000	5,000	5,000
Male	36,000	20,000	16,000	4,000	S	7,000	2,000	5,000	9,000	4,000	4,000
Female	11,000	6,000	3,000	S	1,000	4,000	2,000	1,000	2,000	1,000	1,000
Physics/astronomy	31,000	20,000	18,000	2,000	1,000	10,000	6,000	4,000	1,000	1,000	S
Male	27,000	18,000	16,000	S	1,000	8,000	5,000	3,000	1,000	1,000	S
Female	4,000	2,000	2,000	S	S	2,000	1,000	*	S	S	S
Other physical sciences	5,000	3,000	3,000	S	S	1,000	S	1,000	1,000	S	S
Male	3,000	1,000	1,000	S	S	1,000	S	S	S	S	S
Female	2,000	S	S	S	S	S	S	S	S	S	S
Social/related sciences	670,000	350,000	201,000	60,000	89,000	200,000	66,000	134,000	121,000	47,000	74,000
Male	288,000	163,000	107,000	24,000	32,000	64,000	24,000	40,000	61,000	29,000	32,000
Female	383,000	186,000	94,000	36,000	57,000	136,000	42,000	94,000	60,000	18,000	42,000
Economics	72,000	52,000	40,000	7,000	6,000	12,000	7,000	5,000	8,000	5,000	2,000
Male	53,000	40,000	30,000	6,000	3,000	8,000	5,000	3,000	5,000	4,000	1,000
Female	19,000	12,000	9,000	S	2,000	4,000	2,000	2,000	3,000	2,000	1,000
Political/related sciences	97,000	52,000	39,000	4,000	8,000	14,000	9,000	5,000	31,000	20,000	11,000
Male	59,000	29,000	22,000	3,000	4,000	7,000	3,000	4,000	23,000	17,000	7,000
Female	38,000	23,000	17,000	1,000	5,000	7,000	5,000	1,000	8,000	3,000	4,000
Psychology	373,000	187,000	87,000	41,000	59,000	128,000	26,000	102,000	58,000	13,000	45,000
Male	117,000	67,000	35,000	11,000	21,000	31,000	7,000	24,000	19,000	3,000	16,000
Female	256,000	120,000	52,000	30,000	38,000	97,000	19,000	78,000	39,000	10,000	29,000
Sociology/anthropology	52,000	23,000	16,000	2,000	5,000	18,000	11,000	7,000	11,000	3,000	8,000
Male	21,000	9,000	7,000	S	2,000	7,000	4,000	3,000	6,000	2,000	4,000
Female	31,000	14,000	10,000	1,000	3,000	11,000	8,000	4,000	6,000	2,000	4,000
Other social sciences	77,000	35,000	18,000	5,000	12,000	29,000	13,000	15,000	13,000	6,000	8,000
Male	37,000	19,000	13,000	3,000	3,000	11,000	5,000	6,000	8,000	4,000	4,000
Female	39,000	16,000	5,000	2,000	9,000	18,000	9,000	9,000	6,000	2,000	4,000
Engineering	535,000	438,000	409,000	20,000	8,000	36,000	28,000	8,000	60,000	33,000	28,000
Male	464,000	385,000	362,000	16,000	7,000	29,000	24,000	5,000	50,000	28,000	22,000
Female	71,000	53,000	47,000	4,000	1,000	8,000	4,000	3,000	10,000	5,000	6,000
Aerospace/related engineering	15,000	12,000	10,000	S	S	1,000	1,000	S	2,000	2,000	S
Male	14,000	11,000	10,000	S	S	1,000	1,000	S	2,000	2,000	S
Female	1,000	1,000	1,000	S	S	*	*	S	S	S	S

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Chemical engineering	27,000	23,000	22,000	S	S	2,000	1,000	S	2,000	1,000	2,000
Male	21,000	19,000	19,000	S	S	1,000	1,000	S	1,000	*	S
Female	6,000	3,000	3,000	S	S	1,000	*	S	2,000	S	S
Civil/architectural engineering	86,000	63,000	58,000	4,000	2,000	5,000	3,000	2,000	18,000	4,000	15,000
Male	74,000	56,000	52,000	3,000	S	3,000	2,000	S	15,000	3,000	12,000
Female	12,000	7,000	6,000	S	S	2,000	1,000	S	3,000	1,000	2,000
Electrical/computer engineering	194,000	171,000	159,000	8,000	3,000	12,000	11,000	1,000	11,000	10,000	2,000
Male	169,000	148,000	138,000	7,000	3,000	11,000	10,000	1,000	10,000	8,000	2,000
Female	26,000	23,000	21,000	1,000	1,000	1,000	1,000	S	2,000	1,000	S
Industrial engineering	29,000	23,000	22,000	S	S	2,000	1,000	1,000	4,000	3,000	1,000
Male	24,000	19,000	19,000	S	S	2,000	1,000	S	3,000	2,000	S
Female	5,000	4,000	3,000	S	S	*	*	S	S	S	S
Mechanical engineering	84,000	70,000	68,000	1,000	1,000	6,000	5,000	1,000	7,000	6,000	2,000
Male	79,000	66,000	64,000	1,000	1,000	6,000	5,000	S	7,000	5,000	2,000
Female	5,000	4,000	4,000	S	S	1,000	*	S	S	S	S
Other engineering	99,000	76,000	69,000	6,000	1,000	8,000	6,000	2,000	14,000	8,000	6,000
Male	83,000	66,000	61,000	4,000	1,000	5,000	4,000	1,000	12,000	7,000	5,000
Female	16,000	11,000	8,000	S	S	3,000	2,000	1,000	2,000	1,000	1,000
S&E-related fields	915,000	509,000	318,000	63,000	127,000	300,000	81,000	219,000	106,000	34,000	72,000
Male	301,000	189,000	145,000	22,000	21,000	74,000	18,000	56,000	38,000	14,000	24,000
Female	613,000	320,000	173,000	41,000	106,000	226,000	63,000	163,000	67,000	20,000	48,000
Health	624,000	377,000	216,000	43,000	118,000	171,000	68,000	103,000	77,000	28,000	49,000
Male	130,000	89,000	64,000	8,000	17,000	19,000	12,000	7,000	22,000	10,000	12,000
Female	494,000	288,000	152,000	35,000	101,000	152,000	56,000	96,000	55,000	18,000	37,000
Science/mathematics teacher education	147,000	22,000	14,000	6,000	3,000	118,000	7,000	111,000	6,000	S	5,000
Male	61,000	11,000	7,000	4,000	S	48,000	2,000	46,000	2,000	S	S
Female	85,000	11,000	6,000	S	3,000	70,000	5,000	65,000	4,000	S	4,000
Technology/technical fields	49,000	40,000	39,000	S	S	4,000	1,000	3,000	5,000	4,000	2,000
Male	40,000	34,000	32,000	S	S	3,000	1,000	2,000	4,000	2,000	1,000
Female	9,000	7,000	6,000	S	S	S	S	S	S	S	S
Other S&E-related fields	95,000	69,000	50,000	12,000	6,000	8,000	5,000	3,000	17,000	1,000	16,000
Male	70,000	55,000	42,000	9,000	S	5,000	3,000	S	10,000	S	9,000
Female	25,000	14,000	8,000	3,000	3,000	4,000	2,000	S	7,000	S	7,000
Non-S&E fields	2,145,000	1,255,000	954,000	116,000	185,000	651,000	107,000	544,000	239,000	83,000	156,000
Male	1,243,000	837,000	695,000	70,000	72,000	271,000	51,000	220,000	135,000	61,000	74,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	902,000	418,000	259,000	47,000	113,000	379,000	56,000	324,000	104,000	22,000	82,000
Arts/humanities	97,000	50,000	31,000	15,000	3,000	40,000	10,000	29,000	7,000	1,000	5,000
Male	48,000	28,000	17,000	9,000	S	17,000	5,000	13,000	2,000	S	S
Female	49,000	22,000	14,000	6,000	S	23,000	6,000	17,000	5,000	S	4,000
Education, except science/mathematics teacher education	606,000	110,000	68,000	16,000	26,000	468,000	30,000	438,000	29,000	8,000	20,000
Male	251,000	55,000	40,000	8,000	7,000	182,000	11,000	172,000	14,000	6,000	9,000
Female	355,000	55,000	28,000	7,000	19,000	286,000	19,000	267,000	14,000	3,000	12,000
Management/administration	882,000	749,000	662,000	44,000	44,000	54,000	29,000	25,000	79,000	45,000	34,000
Male	657,000	569,000	520,000	31,000	19,000	30,000	14,000	16,000	58,000	35,000	23,000
Female	225,000	180,000	142,000	13,000	25,000	24,000	15,000	9,000	21,000	11,000	10,000
Sales/marketing	90,000	82,000	70,000	8,000	4,000	5,000	3,000	2,000	2,000	S	2,000
Male	64,000	59,000	52,000	5,000	2,000	3,000	S	S	2,000	S	1,000
Female	25,000	23,000	18,000	3,000	S	2,000	S	S	S	S	S
Social services/related	248,000	163,000	49,000	23,000	90,000	41,000	11,000	31,000	44,000	5,000	39,000
Male	97,000	68,000	23,000	9,000	36,000	15,000	5,000	11,000	14,000	4,000	10,000
Female	151,000	95,000	26,000	14,000	54,000	26,000	6,000	20,000	30,000	S	29,000
Other non-S&E fields	222,000	102,000	73,000	11,000	18,000	42,000	23,000	19,000	79,000	22,000	57,000
Male	125,000	58,000	43,000	8,000	7,000	23,000	16,000	7,000	45,000	15,000	29,000
Female	97,000	44,000	30,000	3,000	11,000	19,000	8,000	11,000	34,000	7,000	27,000
Doctorate degrees	885,000	366,000	267,000	48,000	52,000	444,000	385,000	59,000	75,000	50,000	25,000
Male	627,000	275,000	215,000	28,000	32,000	298,000	263,000	35,000	54,000	37,000	16,000
Female	258,000	91,000	52,000	19,000	20,000	146,000	122,000	24,000	21,000	13,000	8,000
S&E fields	690,000	303,000	230,000	39,000	33,000	324,000	300,000	24,000	63,000	45,000	18,000
Male	513,000	236,000	190,000	25,000	21,000	230,000	215,000	14,000	47,000	34,000	13,000
Female	177,000	67,000	40,000	15,000	13,000	94,000	85,000	9,000	16,000	11,000	5,000
Sciences	568,000	225,000	161,000	34,000	30,000	289,000	267,000	22,000	53,000	38,000	16,000
Male	401,000	164,000	126,000	20,000	18,000	199,000	186,000	13,000	38,000	27,000	11,000
Female	167,000	62,000	35,000	14,000	12,000	90,000	81,000	9,000	15,000	10,000	5,000
Biological/agricultural/environmental life sciences	191,000	65,000	49,000	5,000	10,000	106,000	100,000	6,000	20,000	17,000	4,000
Male	131,000	47,000	37,000	4,000	6,000	71,000	68,000	3,000	13,000	11,000	3,000
Female	59,000	18,000	13,000	1,000	4,000	34,000	32,000	2,000	7,000	6,000	1,000
Agricultural/food sciences	19,000	8,000	7,000	1,000	1,000	9,000	9,000	*	2,000	2,000	*
Male	16,000	7,000	6,000	1,000	1,000	7,000	7,000	*	2,000	1,000	*
Female	3,000	1,000	1,000	*	S	2,000	2,000	*	*	*	*
Biological sciences	165,000	55,000	41,000	4,000	9,000	94,000	89,000	5,000	16,000	14,000	3,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Male	111,000	38,000	30,000	3,000	5,000	63,000	60,000	3,000	10,000	9,000	2,000
Female	55,000	17,000	12,000	1,000	4,000	32,000	30,000	2,000	6,000	5,000	1,000
Environmental life sciences	6,000	2,000	1,000	*	*	2,000	2,000	*	2,000	1,000	*
Male	5,000	1,000	1,000	*	*	2,000	2,000	*	1,000	1,000	*
Female	1,000	*	*	S	*	1,000	1,000	S	*	*	S
Computer/mathematical sciences	51,000	19,000	17,000	1,000	1,000	29,000	28,000	1,000	3,000	2,000	1,000
Male	42,000	17,000	15,000	1,000	1,000	23,000	22,000	1,000	2,000	2,000	*
Female	9,000	2,000	2,000	*	*	6,000	6,000	*	1,000	*	*
Computer/information sciences	17,000	9,000	9,000	*	*	7,000	7,000	*	1,000	*	*
Male	15,000	8,000	8,000	*	*	6,000	6,000	*	*	*	S
Female	2,000	1,000	1,000	S	*	1,000	1,000	*	*	S	S
Mathematical sciences	34,000	10,000	8,000	1,000	1,000	22,000	21,000	1,000	2,000	2,000	*
Male	27,000	9,000	7,000	1,000	1,000	17,000	16,000	1,000	2,000	1,000	*
Female	7,000	1,000	1,000	*	*	5,000	5,000	*	*	*	S
Physical/related sciences	141,000	72,000	63,000	5,000	5,000	55,000	50,000	5,000	13,000	10,000	3,000
Male	120,000	62,000	54,000	4,000	4,000	46,000	43,000	3,000	11,000	9,000	3,000
Female	21,000	10,000	9,000	1,000	1,000	9,000	8,000	1,000	2,000	1,000	*
Chemistry, except biochemistry	71,000	43,000	39,000	3,000	2,000	23,000	21,000	3,000	5,000	3,000	2,000
Male	58,000	36,000	32,000	2,000	1,000	19,000	17,000	2,000	4,000	3,000	1,000
Female	13,000	8,000	7,000	*	*	5,000	4,000	1,000	1,000	1,000	*
Earth/atmospheric/ocean sciences	18,000	5,000	4,000	1,000	1,000	10,000	9,000	1,000	3,000	2,000	1,000
Male	15,000	4,000	3,000	1,000	*	8,000	7,000	*	3,000	2,000	1,000
Female	3,000	1,000	1,000	S	S	2,000	2,000	*	*	*	S
Physics/astronomy	48,000	22,000	19,000	1,000	2,000	21,000	19,000	1,000	5,000	4,000	1,000
Male	43,000	20,000	17,000	1,000	2,000	19,000	17,000	1,000	4,000	4,000	*
Female	4,000	2,000	2,000	S	*	2,000	2,000	*	1,000	*	S
Other physical sciences	4,000	2,000	2,000	*	*	1,000	1,000	S	*	*	S
Male	3,000	2,000	2,000	*	S	1,000	1,000	S	*	*	S
Female	1,000	*	S	S	S	*	*	S	*	*	S
Social/related sciences	185,000	69,000	31,000	23,000	14,000	99,000	88,000	11,000	17,000	9,000	8,000
Male	108,000	38,000	20,000	11,000	7,000	59,000	53,000	5,000	11,000	6,000	5,000
Female	78,000	31,000	12,000	12,000	7,000	40,000	35,000	5,000	6,000	3,000	3,000
Economics	24,000	7,000	5,000	1,000	1,000	13,000	13,000	*	3,000	3,000	1,000
Male	20,000	6,000	4,000	1,000	1,000	11,000	11,000	*	3,000	2,000	*
Female	4,000	1,000	1,000	S	*	2,000	2,000	S	1,000	1,000	*

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Educational institution									
		Business/industry				4-year college/university			Government		
		Total	Profit	Self-employed	Nonprofit	Total	Other	Total	Federal	State/local	
Political/related sciences	21,000	5,000	3,000	1,000	1,000	14,000	13,000	1,000	2,000	1,000	1,000
Male	15,000	4,000	2,000	1,000	1,000	10,000	9,000	1,000	1,000	1,000	1,000
Female	5,000	1,000	1,000	*	*	4,000	4,000	*	*	*	*
Psychology	96,000	47,000	18,000	20,000	9,000	41,000	34,000	7,000	9,000	3,000	5,000
Male	48,000	23,000	10,000	8,000	4,000	20,000	17,000	3,000	5,000	2,000	3,000
Female	49,000	24,000	8,000	11,000	5,000	21,000	17,000	4,000	4,000	1,000	2,000
Sociology/anthropology	27,000	6,000	2,000	1,000	3,000	19,000	18,000	1,000	2,000	1,000	1,000
Male	14,000	3,000	1,000	*	1,000	10,000	9,000	1,000	1,000	1,000	1,000
Female	13,000	3,000	1,000	*	2,000	9,000	8,000	1,000	1,000	1,000	*
Other social sciences	18,000	4,000	3,000	1,000	1,000	12,000	11,000	1,000	1,000	1,000	1,000
Male	11,000	3,000	2,000	*	*	8,000	7,000	1,000	1,000	*	*
Female	7,000	2,000	1,000	*	*	5,000	4,000	1,000	*	*	*
Engineering	122,000	78,000	69,000	5,000	3,000	35,000	33,000	1,000	10,000	8,000	2,000
Male	112,000	72,000	64,000	5,000	3,000	31,000	30,000	1,000	9,000	7,000	2,000
Female	10,000	6,000	5,000	*	*	4,000	4,000	*	1,000	1,000	*
Aerospace/related engineering	6,000	4,000	3,000	*	*	2,000	2,000	S	1,000	1,000	S
Male	6,000	4,000	3,000	*	*	1,000	1,000	S	1,000	1,000	S
Female	*	S	S	S	S	*	*	S	S	S	S
Chemical engineering	16,000	12,000	11,000	1,000	1,000	3,000	3,000	*	1,000	1,000	1,000
Male	15,000	11,000	10,000	1,000	1,000	3,000	2,000	*	1,000	1,000	1,000
Female	2,000	1,000	1,000	S	S	*	*	S	*	*	S
Civil/architectural engineering	11,000	6,000	5,000	*	*	4,000	4,000	S	1,000	1,000	*
Male	10,000	5,000	5,000	*	*	4,000	4,000	S	1,000	1,000	*
Female	1,000	*	*	S	S	*	*	S	*	S	S
Electrical/computer engineering	36,000	24,000	21,000	2,000	1,000	10,000	10,000	*	2,000	2,000	*
Male	33,000	22,000	20,000	2,000	1,000	9,000	9,000	*	2,000	2,000	*
Female	3,000	2,000	2,000	S	S	1,000	1,000	*	*	*	S
Industrial engineering	4,000	2,000	2,000	S	S	2,000	2,000	S	*	*	S
Male	3,000	2,000	2,000	S	S	1,000	1,000	S	S	S	S
Female	1,000	*	*	S	S	1,000	1,000	S	*	*	S
Mechanical engineering	15,000	10,000	9,000	1,000	*	4,000	4,000	*	1,000	1,000	S
Male	14,000	10,000	9,000	1,000	*	4,000	4,000	*	1,000	1,000	S
Female	1,000	*	*	S	S	*	*	S	S	S	S
Other engineering	34,000	20,000	18,000	1,000	1,000	10,000	9,000	1,000	4,000	3,000	1,000
Male	31,000	18,000	16,000	1,000	1,000	9,000	8,000	*	4,000	3,000	1,000

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Nonprofit	Total	4-year college/university	Other	Total	Federal	State/local
Female	4,000	2,000	2,000	S	*	1,000	1,000	S	*	*	S
S&E-related fields	59,000	24,000	17,000	2,000	4,000	30,000	27,000	4,000	5,000	2,000	3,000
Male	31,000	15,000	13,000	1,000	2,000	14,000	13,000	1,000	2,000	1,000	1,000
Female	28,000	9,000	5,000	1,000	3,000	16,000	14,000	3,000	3,000	1,000	2,000
Health	41,000	17,000	11,000	2,000	4,000	20,000	19,000	1,000	4,000	2,000	2,000
Male	18,000	8,000	6,000	1,000	1,000	8,000	8,000	*	2,000	1,000	1,000
Female	23,000	8,000	5,000	1,000	3,000	12,000	11,000	*	3,000	1,000	2,000
Science/mathematics teacher education	9,000	S	S	S	S	8,000	5,000	3,000	S	S	S
Male	4,000	S	S	S	S	4,000	4,000	S	S	S	S
Female	4,000	S	S	S	S	4,000	2,000	2,000	S	S	S
Technology/technical fields	3,000	2,000	2,000	S	S	S	S	S	S	S	S
Male	3,000	2,000	2,000	S	S	S	S	S	S	S	S
Female	S	S	S	S	S	S	S	S	S	S	S
Other S&E-related fields	7,000	5,000	S	S	S	2,000	2,000	S	S	S	S
Male	6,000	S	S	S	S	1,000	1,000	S	S	S	S
Female	1,000	S	S	S	S	S	S	S	S	S	S
Non-S&E fields	136,000	40,000	19,000	6,000	14,000	90,000	59,000	31,000	7,000	3,000	4,000
Male	84,000	25,000	12,000	3,000	9,000	54,000	35,000	19,000	5,000	2,000	3,000
Female	53,000	15,000	7,000	3,000	5,000	36,000	24,000	12,000	2,000	S	1,000
Arts/humanities	17,000	3,000	2,000	S	S	12,000	10,000	2,000	S	S	S
Male	10,000	2,000	1,000	S	S	7,000	5,000	2,000	S	S	S
Female	7,000	1,000	S	S	S	5,000	4,000	1,000	S	S	S
Education, except science/mathematics teacher education	64,000	11,000	4,000	2,000	5,000	52,000	26,000	25,000	2,000	S	1,000
Male	35,000	5,000	S	S	2,000	29,000	14,000	15,000	S	S	S
Female	29,000	5,000	1,000	2,000	2,000	23,000	12,000	10,000	S	S	S
Management/administration	14,000	7,000	5,000	S	S	8,000	7,000	S	S	S	S
Male	12,000	6,000	4,000	S	S	6,000	6,000	S	S	S	S
Female	2,000	S	S	S	S	1,000	1,000	S	S	S	S
Sales/marketing	2,000	S	S	S	S	1,000	1,000	S	S	S	S
Male	1,000	S	S	S	S	1,000	1,000	S	S	S	S
Female	1,000	S	S	S	S	1,000	1,000	S	S	S	S
Social services/related	19,000	8,000	2,000	S	6,000	10,000	7,000	2,000	S	S	S
Male	14,000	6,000	S	S	5,000	7,000	5,000	S	S	S	S
Female	5,000	2,000	S	S	S	3,000	3,000	S	S	S	S

TABLE 12. Employed U.S. scientists and engineers, by level and field of highest degree, sex, and employment sector: 2003

Level and field of highest degree and sex	Employed scientists and engineers	Educational institution									
		Business/industry				4-year college/university			Government		State/local
		Total	Profit	Self-employed	Nonprofit	Total	Other	Total	Federal		
Other non-S&E fields	21,000	11,000	7,000	S	3,000	8,000	7,000	1,000	2,000	S	2,000
Male	12,000	6,000	4,000	S	S	4,000	4,000	S	2,000	S	S
Female	9,000	5,000	3,000	S	S	3,000	3,000	S	S	S	S

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

S&E = science and engineering.

^a Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received a bachelor's or higher degree in a science or engineering (S&E) or S&E-related field, plus any person holding a non-S&E bachelor's or higher degree who was employed in a S&E or S&E-related occupation in 2003. See <http://sestat.nsf.gov/docs/ed03maj.html> for a detailed description of the educational field classification. 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. 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.