TABLE 15. Employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All degree levels and fields[a]	18,021,000	1,243,000	2,828,000	2,665,000	1,245,000	3,357,000	774,000	1,586,000	1,143,000	3,166,000
S&E fields	9,579,000	658,000	1,480,000	1,314,000	606,000	1,804,000	378,000	828,000	643,000	1,859,000
Sciences	7,245,000	499,000	1,172,000	947,000	485,000	1,401,000	276,000	585,000	484,000	1,388,000
Biological/agricultural/environmental life sciences	1,481,000	92,000	208,000	201,000	131,000	260,000	69,000	129,000	104,000	285,000
Agricultural sciences	249,000	9,000	26,000	39,000	38,000	33,000	17,000	32,000	20,000	36,000
Biological sciences	1,081,000	74,000	162,000	145,000	80,000	197,000	46,000	90,000	70,000	215,000
Environmental life sciences	151,000	9,000	20,000	18,000	13,000	30,000	6,000	8,000	14,000	34,000
Computer/mathematical sciences	1,437,000	104,000	231,000	199,000	103,000	285,000	45,000	134,000	81,000	254,000
Computer/information sciences	961,000	60,000	151,000	132,000	72,000	202,000	24,000	85,000	57,000	176,000
Mathematics/statistics	476,000	44,000	80,000	66,000	30,000	84,000	21,000	48,000	24,000	78,000
Physical/related sciences	694,000	54,000	116,000	84,000	36,000	116,000	26,000	65,000	62,000	136,000
Chemistry, except biochemistry	326,000	22,000	62,000	49,000	17,000	55,000	15,000	28,000	18,000	60,000
Earth/atmospheric/ocean sciences	170,000	13,000	20,000	16,000	8,000	25,000	5,000	21,000	31,000	31,000
Physics/astronomy	152,000	16,000	26,000	15,000	8,000	28,000	5,000	10,000	10,000	35,000
Other physical sciences	45,000	3,000	8,000	3,000	3,000	8,000	*	5,000	4,000	11,000
Social/related sciences	3,633,000	250,000	619,000	463,000	216,000	739,000	136,000	257,000	237,000	713,000
Economics	551,000	42,000	115,000	63,000	43,000	97,000	18,000	32,000	35,000	106,000
Political/related sciences	666,000	47,000	118,000	81,000	31,000	177,000	21,000	43,000	37,000	111,000
Psychology	1,335,000	95,000	216,000	182,000	79,000	245,000	65,000	111,000	80,000	264,000
Sociology/anthropology	684,000	40,000	116,000	86,000	37,000	133,000	22,000	39,000	66,000	144,000
Other social sciences	398,000	26,000	55,000	52,000	26,000	87,000	11,000	33,000	20,000	88,000
Engineering	2,334,000	159,000	307,000	367,000	120,000	403,000	102,000	243,000	159,000	472,000
Aerospace/aeronautical/astronautical engineering	85,000	3,000	9,000	6,000	4,000	20,000	3,000	11,000	6,000	23,000
Chemical engineering	159,000	11,000	27,000	27,000	7,000	23,000	6,000	28,000	8,000	23,000
Civil/architectural engineering	385,000	29,000	51,000	47,000	24,000	74,000	17,000	37,000	29,000	76,000
Electrical/computer engineering	748,000	53,000	97,000	97,000	37,000	121,000	29,000	72,000	54,000	189,000
Industrial engineering	134,000	7,000	15,000	26,000	7,000	29,000	12,000	13,000	6,000	18,000
Mechanical engineering	492,000	36,000	65,000	108,000	23,000	79,000	21,000	48,000	26,000	85,000
Other engineering	330,000	20,000	44,000	56,000	19,000	57,000	13,000	34,000	30,000	58,000
S&E-related fields	4,383,000	287,000	697,000	738,000	358,000	787,000	214,000	403,000	251,000	645,000
Health	3,373,000	208,000	550,000	568,000	277,000	617,000	177,000	293,000	192,000	489,000
Science/mathematics teacher education	340,000	27,000	56,000	61,000	29,000	57,000	14,000	46,000	19,000	32,000
Technology/technical fields	334,000	21,000	36,000	65,000	32,000	47,000	16,000	34,000	19,000	63,000
Other S&E-related fields	336,000	31,000	54,000	44,000	21,000	66,000	7,000	30,000	22,000	61,000
Non-S&E fields	4,059,000	298,000	651,000	614,000	281,000	765,000	182,000	355,000	249,000	662,000
Arts/humanities	366,000	30,000	57,000	49,000	20,000	65,000	10,000	32,000	20,000	82,000
Education, except science/mathematics teacher education	890,000	60,000	147,000	140,000	67,000	146,000	57,000	87,000	64,000	123,000

TABLE 15. Employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Management/administration	1,367,000	99,000	194,000	219,000	89,000	270,000	58,000	131,000	88,000	215,000
Sales/marketing	144,000	16,000	25,000	28,000	12,000	20,000	S	14,000	9,000	19,000
Social services/related	317,000	27,000	63,000	52,000	19,000	58,000	18,000	22,000	14,000	43,000
Other non-S&E fields	975,000	66,000	165,000	125,000	73,000	207,000	37,000	68,000	55,000	180,000
Bachelor's degrees	10,490,000	675,000	1,551,000	1,577,000	762,000	1,933,000	457,000	965,000	684,000	1,881,000
S&E fields	6,953,000	440,000	1,048,000	975,000	473,000	1,311,000	289,000	603,000	470,000	1,339,000
Sciences	5,276,000	331,000	833,000	708,000	378,000	1,015,000	209,000	421,000	361,000	1,018,000
Biological/agricultural/environmental life sciences	1,082,000	59,000	143,000	152,000	104,000	185,000	54,000	95,000	78,000	212,000
Agricultural sciences	199,000	8,000	21,000	31,000	32,000	26,000	13,000	26,000	13,000	30,000
Biological sciences	767,000	46,000	105,000	108,000	60,000	135,000	36,000	64,000	57,000	156,000
Environmental life sciences	116,000	4,000	17,000	13,000	12,000	24,000	5,000	6,000	9,000	26,000
Computer/mathematical sciences	1,010,000	65,000	145,000	148,000	84,000	199,000	34,000	101,000	58,000	177,000
Computer/information sciences	667,000	33,000	95,000	101,000	61,000	138,000	19,000	61,000	39,000	118,000
Mathematics/statistics	343,000	31,000	49,000	47,000	23,000	61,000	15,000	40,000	19,000	58,000
Physical/related sciences	423,000	32,000	71,000	52,000	22,000	70,000	17,000	41,000	36,000	83,000
Chemistry, except biochemistry	209,000	11,000	38,000	32,000	11,000	33,000	11,000	21,000	12,000	39,000
Earth/atmospheric/ocean sciences	105,000	9,000	14,000	11,000	4,000	17,000	2,000	11,000	17,000	19,000
Physics/astronomy	73,000	9,000	12,000	6,000	5,000	13,000	3,000	5,000	4,000	17,000
Other physical sciences	36,000	2,000	7,000	2,000	S	7,000	S	4,000	4,000	9,000
Social/related sciences	2,760,000	175,000	474,000	356,000	168,000	562,000	104,000	183,000	189,000	546,000
Economics	455,000	29,000	96,000	52,000	38,000	75,000	15,000	27,000	29,000	93,000
Political/related sciences	548,000	35,000	100,000	68,000	27,000	135,000	19,000	36,000	33,000	96,000
Psychology	849,000	58,000	134,000	127,000	49,000	166,000	46,000	66,000	51,000	153,000
Sociology/anthropology	605,000	35,000	104,000	71,000	32,000	121,000	17,000	33,000	60,000	131,000
Other social sciences	303,000	18,000	41,000	38,000	22,000	65,000	8,000	22,000	16,000	74,000
Engineering	1,677,000	109,000	215,000	267,000	95,000	296,000	80,000	183,000	110,000	320,000
Aerospace/aeronautical/astronautical engineering	64,000	2,000	7,000	4,000	3,000	15,000	2,000	8,000	4,000	19,000
Chemical engineering	116,000	6,000	20,000	21,000	5,000	17,000	5,000	19,000	6,000	16,000
Civil/architectural engineering	288,000	23,000	36,000	33,000	18,000	56,000	14,000	29,000	21,000	57,000
Electrical/computer engineering	518,000	33,000	65,000	73,000	30,000	85,000	24,000	55,000	36,000	117,000
Industrial engineering	101,000	5,000	12,000	18,000	5,000	24,000	10,000	9,000	4,000	14,000
Mechanical engineering	393,000	29,000	50,000	85,000	19,000	66,000	19,000	41,000	21,000	64,000
Other engineering	197,000	10,000	26,000	34,000	13,000	33,000	6,000	22,000	19,000	34,000
S&E-related fields	2,322,000	149,000	358,000	411,000	189,000	407,000	118,000	230,000	132,000	327,000
Health	1,621,000	105,000	266,000	286,000	133,000	287,000	90,000	148,000	89,000	218,000
Science/mathematics teacher education	185,000	8,000	29,000	36,000	16,000	32,000	8,000	33,000	8,000	15,000
Technology/technical fields	282,000	17,000	28,000	58,000	27,000	39,000	14,000	29,000	18,000	51,000

TABLE 15. Employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Other S&E-related fields	235,000	19,000	36,000	31,000	14,000	50,000	6,000	20,000	17,000	42,000
Non-S&E fields	1,215,000	86,000	145,000	191,000	100,000	214,000	50,000	131,000	82,000	216,000
Arts/humanities	252,000	22,000	34,000	35,000	16,000	46,000	8,000	18,000	14,000	59,000
Education, except science/mathematics teacher education	217,000	15,000	25,000	33,000	21,000	30,000	10,000	35,000	17,000	30,000
Management/administration	468,000	29,000	47,000	74,000	41,000	91,000	20,000	56,000	29,000	80,000
Sales/marketing	53,000	3,000	10,000	14,000	1,000	9,000	S	7,000	5,000	3,000
Social services/related	40,000	4,000	6,000	4,000	2,000	8,000	S	2,000	S	9,000
Other non-S&E fields	185,000	13,000	23,000	30,000	18,000	30,000	10,000	12,000	14,000	34,000
Master's degrees	4,979,000	392,000	850,000	738,000	317,000	927,000	205,000	417,000	314,000	812,000
S&E fields	1,919,000	158,000	314,000	248,000	94,000	362,000	65,000	171,000	129,000	376,000
Sciences	1,384,000	118,000	238,000	167,000	74,000	273,000	47,000	123,000	89,000	254,000
Biological/agricultural/environmental life sciences	209,000	14,000	35,000	28,000	13,000	36,000	8,000	19,000	16,000	39,000
Agricultural sciences	31,000	S	3,000	5,000	3,000	4,000	3,000	4,000	6,000	3,000
Biological sciences	148,000	10,000	30,000	19,000	9,000	27,000	4,000	14,000	6,000	29,000
Environmental life sciences	30,000	4,000	2,000	4,000	1,000	5,000	1,000	1,000	5,000	6,000
Computer/mathematical sciences	375,000	36,000	74,000	44,000	17,000	78,000	9,000	29,000	20,000	67,000
Computer/information sciences	277,000	26,000	52,000	29,000	10,000	62,000	4,000	23,000	16,000	53,000
Mathematics/statistics	98,000	10,000	22,000	15,000	6,000	16,000	5,000	6,000	4,000	14,000
Physical/related sciences	130,000	10,000	19,000	15,000	8,000	22,000	4,000	14,000	16,000	22,000
Chemistry, except biochemistry	46,000	4,000	10,000	6,000	3,000	11,000	1,000	3,000	2,000	7,000
Earth/atmospheric/ocean sciences	47,000	3,000	4,000	4,000	2,000	5,000	3,000	8,000	12,000	8,000
Physics/astronomy	31,000	3,000	5,000	4,000	2,000	6,000	S	2,000	2,000	7,000
Other physical sciences	5,000	S	S	S	S	1,000	S	S	S	S
Social/related sciences	670,000	58,000	110,000	80,000	36,000	137,000	26,000	61,000	37,000	126,000
Economics	72,000	11,000	15,000	8,000	3,000	15,000	2,000	3,000	4,000	10,000
Political/related sciences	97,000	10,000	14,000	10,000	3,000	37,000	2,000	6,000	3,000	12,000
Psychology	373,000	27,000	64,000	40,000	23,000	60,000	16,000	37,000	21,000	84,000
Sociology/anthropology	52,000	3,000	7,000	11,000	3,000	7,000	4,000	4,000	5,000	9,000
Other social sciences	77,000	6,000	11,000	11,000	4,000	19,000	2,000	10,000	3,000	11,000
Engineering	535,000	40,000	75,000	82,000	20,000	89,000	18,000	48,000	40,000	122,000
Aerospace/aeronautical/astronautical engineering	15,000	1,000	1,000	1,000	S	4,000	1,000	2,000	2,000	3,000
Chemical engineering	27,000	3,000	5,000	3,000	1,000	4,000	1,000	6,000	1,000	4,000
Civil/architectural engineering	86,000	5,000	14,000	13,000	5,000	16,000	2,000	7,000	7,000	16,000
Electrical/computer engineering	194,000	17,000	27,000	20,000	6,000	30,000	5,000	14,000	15,000	60,000
Industrial engineering	29,000	1,000	3,000	8,000	1,000	4,000	3,000	3,000	2,000	4,000
Mechanical engineering	84,000	6,000	13,000	20,000	3,000	12,000	2,000	6,000	4,000	18,000
Other engineering	99,000	7,000	13,000	17,000	4,000	19,000	5,000	9,000	8,000	17,000

TABLE 15. Employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
S&E-related fields	915,000	69,000	165,000	150,000	84,000	160,000	38,000	73,000	53,000	124,000
Health	624,000	36,000	112,000	107,000	60,000	112,000	29,000	49,000	37,000	80,000
Science/mathematics teacher education	147,000	19,000	27,000	23,000	12,000	23,000	5,000	11,000	11,000	15,000
Technology/technical fields	49,000	3,000	9,000	7,000	4,000	8,000	2,000	5,000	S	10,000
Other S&E-related fields	95,000	10,000	17,000	13,000	7,000	16,000	S	7,000	4,000	18,000
Non-S&E fields	2,145,000	165,000	372,000	340,000	139,000	405,000	102,000	173,000	133,000	313,000
Arts/humanities	97,000	7,000	20,000	12,000	3,000	15,000	2,000	13,000	5,000	19,000
Education, except science/mathematics teacher education	606,000	43,000	111,000	100,000	42,000	103,000	43,000	45,000	41,000	78,000
Management/administration	882,000	68,000	143,000	143,000	47,000	177,000	38,000	75,000	59,000	132,000
Sales/marketing	90,000	13,000	15,000	14,000	11,000	10,000	S	7,000	3,000	16,000
Social services/related	248,000	21,000	53,000	41,000	16,000	43,000	14,000	18,000	9,000	31,000
Other non-S&E fields	222,000	13,000	30,000	30,000	20,000	57,000	5,000	16,000	15,000	36,000
Doctorate degrees	885,000	73,000	146,000	115,000	49,000	170,000	35,000	70,000	53,000	172,000
S&E fields	690,000	58,000	117,000	89,000	39,000	129,000	24,000	53,000	43,000	136,000
Sciences	568,000	49,000	100,000	71,000	33,000	111,000	20,000	41,000	35,000	107,000
Biological/agricultural/environmental life sciences	191,000	19,000	29,000	21,000	14,000	40,000	7,000	15,000	10,000	34,000
Agricultural sciences	19,000	*	2,000	2,000	3,000	4,000	1,000	2,000	2,000	3,000
Biological sciences	165,000	18,000	27,000	18,000	10,000	35,000	6,000	12,000	8,000	30,000
Environmental life sciences	6,000	*	*	1,000	*	1,000	*	1,000	1,000	1,000
Computer/mathematical sciences	51,000	4,000	12,000	7,000	2,000	9,000	2,000	3,000	3,000	10,000
Computer/information sciences	17,000	1,000	3,000	2,000	1,000	2,000	*	1,000	1,000	5,000
Mathematics/statistics	34,000	3,000	9,000	5,000	2,000	6,000	1,000	2,000	2,000	5,000
Physical/related sciences	141,000	12,000	25,000	18,000	6,000	24,000	5,000	10,000	11,000	30,000
Chemistry, except biochemistry	71,000	6,000	15,000	11,000	4,000	11,000	2,000	5,000	4,000	13,000
Earth/atmospheric/ocean sciences	18,000	1,000	1,000	1,000	1,000	3,000	1,000	2,000	2,000	4,000
Physics/astronomy	48,000	4,000	9,000	6,000	1,000	9,000	1,000	3,000	4,000	11,000
Other physical sciences	4,000	*	*	S	S	1,000	*	*	*	2,000
Social/related sciences	185,000	15,000	34,000	26,000	11,000	39,000	6,000	13,000	11,000	32,000
Economics	24,000	2,000	4,000	3,000	2,000	8,000	1,000	1,000	1,000	3,000
Political/related sciences	21,000	2,000	4,000	3,000	1,000	6,000	1,000	1,000	1,000	3,000
Psychology	96,000	8,000	18,000	13,000	6,000	17,000	3,000	7,000	6,000	19,000
Sociology/anthropology	27,000	2,000	5,000	4,000	2,000	6,000	1,000	2,000	2,000	4,000
Other social sciences	18,000	1,000	4,000	3,000	1,000	3,000	*	1,000	1,000	3,000
Engineering	122,000	9,000	17,000	18,000	5,000	18,000	4,000	12,000	9,000	29,000
Aerospace/aeronautical/astronautical engineering	6,000	*	*	1,000	*	1,000	*	1,000	*	1,000
Chemical engineering	16,000	1,000	2,000	3,000	1,000	2,000	1,000	3,000	1,000	3,000
Civil/architectural engineering	11,000	1,000	2,000	1,000	*	2,000	*	1,000	1,000	2,000

TABLE 15. Employed U.S. scientists and engineers, by level and field of highest degree and geographic division of employment: 2003

Level and field of highest degree	Employed scientists and engineers	Geographic division of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Electrical/computer engineering	36,000	3,000	5,000	4,000	1,000	5,000	1,000	3,000	2,000	12,000
Industrial engineering	4,000	S	*	1,000	*	1,000	S	1,000	*	1,000
Mechanical engineering	15,000	1,000	2,000	3,000	1,000	2,000	1,000	1,000	1,000	3,000
Other engineering	34,000	2,000	5,000	6,000	2,000	5,000	1,000	3,000	3,000	7,000
S&E-related fields	59,000	6,000	10,000	6,000	3,000	12,000	3,000	7,000	2,000	10,000
Health	41,000	3,000	9,000	5,000	2,000	9,000	2,000	3,000	1,000	7,000
Science/mathematics teacher education	9,000	S	S	S	1,000	3,000	S	S	S	1,000
Technology/technical fields	3,000	S	S	S	S	S	S	S	S	1,000
Other S&E-related fields	7,000	S	S	S	S	S	S	S	S	1,000
Non-S&E fields	136,000	9,000	18,000	20,000	6,000	30,000	8,000	10,000	8,000	26,000
Arts/humanities	17,000	1,000	3,000	2,000	1,000	3,000	S	1,000	S	4,000
Education, except science/mathematics teacher education	64,000	2,000	10,000	8,000	3,000	11,000	4,000	7,000	4,000	14,000
Management/administration	14,000	3,000	2,000	2,000	S	3,000	S	S	S	3,000
Sales/marketing	2,000	S	S	S	S	S	S	S	S	S
Social services/related	19,000	S	2,000	3,000	1,000	5,000	2,000	1,000	S	2,000
Other non-S&E fields	21,000	3,000	1,000	4,000	S	7,000	1,000	1,000	1,000	3,000

* = 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. See http://sestat.nsf.gov/docs/location.html for details on states included in each division. 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.