

TABLE 5. Employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2003

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels ^a	Bachelor's	Master's	Doctorate
All degree fields and occupations	18,021,000	10,490,000	4,979,000	885,000
S&E occupations	4,817,000	2,786,000	1,424,000	558,000
Biological/agricultural/environmental life scientists	444,000	182,000	98,000	148,000
Computer/mathematical scientists	2,008,000	1,332,000	578,000	86,000
Physical scientists	315,000	139,000	83,000	91,000
Social scientists	495,000	123,000	215,000	140,000
Engineers	1,555,000	1,010,000	450,000	93,000
S&E-related occupations	5,331,000	2,956,000	1,228,000	105,000
Health occupations	3,515,000	1,829,000	599,000	57,000
S&E managers	386,000	219,000	135,000	26,000
S&E precollege teachers	716,000	357,000	341,000	12,000
S&E technologists/technicians	500,000	401,000	89,000	8,000
Other S&E-related occupations	214,000	149,000	62,000	3,000
Non-S&E occupations	7,873,000	4,747,000	2,328,000	222,000
Art/humanities/related occupations	248,000	160,000	74,000	10,000
Management-related occupations	1,310,000	793,000	457,000	31,000
Non-S&E managers	922,000	456,000	362,000	74,000
Non-S&E postsecondary teachers	140,000	26,000	63,000	46,000
Non-S&E precollege/other teachers	600,000	304,000	283,000	8,000
Sales/marketing occupations	1,322,000	980,000	304,000	18,000
Social services/related occupations	621,000	240,000	353,000	12,000
Other non-S&E occupations	2,711,000	1,789,000	432,000	23,000
Biological/agricultural/environmental life sciences degree fields	1,481,000	1,082,000	209,000	191,000
S&E occupations	443,000	224,000	84,000	136,000
Biological/agricultural/environmental life scientists	313,000	132,000	60,000	121,000
Computer/mathematical scientists	47,000	32,000	10,000	6,000
Physical scientists	45,000	30,000	8,000	6,000
Social scientists	7,000	5,000	1,000	2,000
Engineers	31,000	25,000	4,000	2,000
S&E-related occupations	358,000	278,000	50,000	30,000
Health occupations	221,000	175,000	26,000	20,000
S&E managers	21,000	11,000	3,000	7,000
S&E precollege teachers	49,000	35,000	12,000	1,000
S&E technologists/technicians	65,000	55,000	8,000	2,000
Other S&E-related occupations	3,000	2,000	S	S
Non-S&E occupations	679,000	579,000	75,000	25,000
Art/humanities/related occupations	20,000	15,000	3,000	2,000
Management-related occupations	89,000	74,000	11,000	4,000
Non-S&E managers	60,000	43,000	7,000	10,000
Non-S&E postsecondary teachers	9,000	4,000	5,000	*
Non-S&E precollege/other teachers	36,000	30,000	6,000	*
Sales/marketing occupations	139,000	125,000	12,000	2,000
Social services/related occupations	12,000	9,000	S	*
Other non-S&E occupations	315,000	280,000	30,000	5,000
Computer/mathematical science degree fields	1,437,000	1,010,000	375,000	51,000
S&E occupations	805,000	522,000	241,000	43,000
Biological/agricultural/environmental life scientists	2,000	1,000	1,000	*
Computer/mathematical scientists	753,000	490,000	223,000	40,000
Physical scientists	2,000	2,000	S	*
Social scientists	7,000	3,000	3,000	*
Engineers	40,000	26,000	13,000	2,000
S&E-related occupations	204,000	149,000	53,000	2,000
Health occupations	7,000	5,000	1,000	*

TABLE 5. Employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2003

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels ^a	Bachelor's	Master's	Doctorate
S&E managers	40,000	23,000	16,000	1,000
S&E precollege teachers	57,000	43,000	14,000	*
S&E technologists/technicians	83,000	64,000	18,000	1,000
Other S&E-related occupations	18,000	13,000	4,000	*
Non-S&E occupations	427,000	340,000	81,000	6,000
Art/humanities/related occupations	9,000	8,000	S	*
Management-related occupations	101,000	73,000	27,000	1,000
Non-S&E managers	51,000	35,000	14,000	3,000
Non-S&E postsecondary teachers	4,000	S	2,000	1,000
Non-S&E precollege/other teachers	23,000	20,000	3,000	S
Sales/marketing occupations	83,000	63,000	19,000	1,000
Social services/related occupations	10,000	8,000	1,000	S
Other non-S&E occupations	147,000	133,000	14,000	*
Physical/related science degree fields	694,000	423,000	130,000	141,000
S&E occupations	348,000	165,000	77,000	107,000
Biological/agricultural/environmental life scientists	23,000	10,000	4,000	9,000
Computer/mathematical scientists	53,000	32,000	10,000	10,000
Physical scientists	215,000	86,000	52,000	77,000
Social scientists	3,000	2,000	S	*
Engineers	56,000	36,000	10,000	10,000
S&E-related occupations	96,000	63,000	21,000	12,000
Health occupations	27,000	23,000	3,000	2,000
S&E managers	17,000	7,000	3,000	6,000
S&E precollege teachers	27,000	15,000	11,000	2,000
S&E technologists/technicians	25,000	18,000	4,000	2,000
Other S&E-related occupations	1,000	S	S	S
Non-S&E occupations	249,000	195,000	32,000	21,000
Art/humanities/related occupations	9,000	5,000	2,000	1,000
Management-related occupations	54,000	43,000	7,000	4,000
Non-S&E managers	42,000	28,000	4,000	10,000
Non-S&E postsecondary teachers	2,000	1,000	S	1,000
Non-S&E precollege/other teachers	9,000	7,000	2,000	*
Sales/marketing occupations	41,000	33,000	4,000	3,000
Social services/related occupations	4,000	4,000	S	*
Other non-S&E occupations	89,000	73,000	13,000	3,000
Social/related science degree fields	3,633,000	2,760,000	670,000	185,000
S&E occupations	489,000	193,000	151,000	132,000
Biological/agricultural/environmental life scientists	15,000	8,000	4,000	3,000
Computer/mathematical scientists	140,000	111,000	24,000	5,000
Physical scientists	5,000	2,000	2,000	1,000
Social scientists	312,000	59,000	118,000	122,000
Engineers	17,000	12,000	5,000	1,000
S&E-related occupations	258,000	201,000	49,000	7,000
Health occupations	139,000	108,000	27,000	4,000
S&E managers	26,000	17,000	6,000	3,000
S&E precollege teachers	47,000	35,000	12,000	*
S&E technologists/technicians	42,000	38,000	4,000	*
Other S&E-related occupations	4,000	4,000	S	S
Non-S&E occupations	2,886,000	2,366,000	470,000	46,000
Art/humanities/related occupations	118,000	93,000	22,000	2,000
Management-related occupations	480,000	394,000	79,000	7,000
Non-S&E managers	236,000	164,000	56,000	15,000
Non-S&E postsecondary teachers	33,000	11,000	10,000	11,000

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Field of highest degree and selected occupations	Level of highest degree			
	All degree levels ^a	Bachelor's	Master's	Doctorate
Non-S&E precollege/other teachers	199,000	156,000	41,000	1,000
Sales/marketing occupations	559,000	509,000	47,000	3,000
Social services/related occupations	313,000	189,000	120,000	3,000
Other non-S&E occupations	949,000	851,000	94,000	4,000
Engineering degree fields	2,334,000	1,677,000	535,000	122,000
S&E occupations	1,464,000	974,000	393,000	97,000
Biological/agricultural/environmental life scientists	6,000	3,000	2,000	2,000
Computer/mathematical scientists	299,000	189,000	96,000	14,000
Physical scientists	16,000	6,000	5,000	4,000
Social scientists	4,000	1,000	2,000	*
Engineers	1,139,000	775,000	288,000	76,000
S&E-related occupations	202,000	153,000	41,000	9,000
Health occupations	14,000	11,000	1,000	1,000
S&E managers	84,000	60,000	19,000	6,000
S&E precollege teachers	11,000	8,000	2,000	*
S&E technologists/technicians	75,000	61,000	13,000	1,000
Other S&E-related occupations	19,000	13,000	6,000	S
Non-S&E occupations	668,000	550,000	101,000	17,000
Art/humanities/related occupations	8,000	6,000	2,000	*
Management-related occupations	118,000	93,000	21,000	3,000
Non-S&E managers	156,000	118,000	29,000	9,000
Non-S&E postsecondary teachers	5,000	2,000	2,000	1,000
Non-S&E precollege/other teachers	8,000	6,000	2,000	*
Sales/marketing occupations	129,000	106,000	21,000	2,000
Social services/related occupations	2,000	2,000	S	*
Other non-S&E occupations	242,000	217,000	24,000	2,000
S&E-related degree fields	4,383,000	2,322,000	915,000	59,000
S&E occupations	268,000	151,000	81,000	17,000
Biological/agricultural/environmental life scientists	45,000	8,000	11,000	9,000
Computer/mathematical scientists	109,000	73,000	31,000	3,000
Physical scientists	11,000	3,000	6,000	1,000
Social scientists	23,000	6,000	14,000	2,000
Engineers	81,000	60,000	19,000	1,000
S&E-related occupations	3,152,000	1,523,000	577,000	26,000
Health occupations	2,745,000	1,276,000	427,000	21,000
S&E managers	67,000	37,000	25,000	1,000
S&E precollege teachers	148,000	70,000	76,000	1,000
S&E technologists/technicians	45,000	38,000	5,000	1,000
Other S&E-related occupations	147,000	102,000	43,000	S
Non-S&E occupations	963,000	648,000	256,000	17,000
Art/humanities/related occupations	41,000	28,000	10,000	1,000
Management-related occupations	142,000	99,000	36,000	1,000
Non-S&E managers	109,000	63,000	33,000	4,000
Non-S&E postsecondary teachers	26,000	7,000	12,000	5,000
Non-S&E precollege/other teachers	133,000	69,000	60,000	*
Sales/marketing occupations	172,000	135,000	30,000	3,000
Social services/related occupations	53,000	24,000	25,000	S
Other non-S&E occupations	288,000	221,000	51,000	2,000
Non-S&E degree fields	4,059,000	1,215,000	2,145,000	136,000
S&E occupations	998,000	558,000	397,000	27,000
Biological/agricultural/environmental life scientists	40,000	20,000	16,000	3,000
Computer/mathematical scientists	607,000	405,000	184,000	8,000
Physical scientists	21,000	10,000	9,000	S

TABLE 5. Employed U.S. scientists and engineers, by level and field of highest degree and occupation: 2003

Field of highest degree and selected occupations	Level of highest degree			
	All degree levels ^a	Bachelor's	Master's	Doctorate
Social scientists	138,000	46,000	76,000	14,000
Engineers	192,000	77,000	112,000	2,000
S&E-related occupations	1,060,000	589,000	436,000	18,000
Health occupations	362,000	231,000	113,000	9,000
S&E managers	131,000	64,000	64,000	2,000
S&E precollege teachers	378,000	152,000	215,000	7,000
S&E technologists/technicians	166,000	127,000	37,000	S
Other S&E-related occupations	24,000	15,000	8,000	S
Non-S&E occupations	2,001,000	68,000	1,312,000	90,000
Art/humanities/related occupations	44,000	S	34,000	3,000
Management-related occupations	326,000	17,000	277,000	11,000
Non-S&E managers	267,000	4,000	219,000	24,000
Non-S&E postsecondary teachers	62,000	S	31,000	27,000
Non-S&E precollege/other teachers	192,000	15,000	170,000	6,000
Sales/marketing occupations	200,000	9,000	171,000	4,000
Social services/related occupations	228,000	5,000	204,000	9,000
Other non-S&E occupations	682,000	14,000	207,000	7,000

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

S&E = science and engineering.

^aTotal 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, and <http://sestat.nsf.gov/docs/occ03maj.html> for a detailed description of the occupational classification. 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.