

TABLE 7. U.S. scientists and engineers, by field and level of highest degree: 2003

Field of highest degree	Level of highest degree			
	All degree levels ^a	Bachelor's	Master's	Doctorate
All degree fields	21,647,000	12,782,000	5,967,000	1,026,000
S&E fields	11,880,000	8,716,000	2,348,000	796,000
Sciences	9,048,000	6,666,000	1,706,000	656,000
Biological/agricultural/environmental life sciences	1,851,000	1,369,000	261,000	221,000
Agricultural/food sciences	292,000	232,000	37,000	23,000
Animal sciences	110,000	101,000	5,000	4,000
Food sciences/technology	37,000	27,000	7,000	3,000
Plant sciences	87,000	62,000	14,000	11,000
Other agricultural sciences	58,000	43,000	11,000	5,000
Biological sciences	1,374,000	998,000	185,000	191,000
Biochemistry/biophysics	124,000	69,000	15,000	40,000
Biology, general	622,000	574,000	40,000	8,000
Botany	37,000	22,000	7,000	8,000
Cell/molecular biology	63,000	27,000	12,000	24,000
Ecology	61,000	34,000	21,000	7,000
Genetics, animal/plant	23,000	7,000	6,000	9,000
Microbiological sciences/immunology	116,000	74,000	21,000	20,000
Nutritional science	50,000	34,000	13,000	3,000
Pharmacology, human/animal	22,000	6,000	5,000	10,000
Physiology/pathology/human/animal	59,000	35,000	10,000	15,000
Zoology, general	89,000	58,000	14,000	16,000
Other biological sciences	109,000	58,000	19,000	32,000
Environmental life sciences	185,000	139,000	39,000	7,000
Environmental science studies	102,000	73,000	25,000	3,000
Forestry sciences	84,000	66,000	14,000	4,000
Computer/mathematical sciences	1,703,000	1,202,000	444,000	57,000
Computer/information sciences	1,087,000	753,000	316,000	18,000
Computer/information sciences	192,000	118,000	61,000	13,000
Computer science	620,000	442,000	174,000	4,000
Computer systems analysis	35,000	22,000	13,000	S
Information services/systems	178,000	132,000	45,000	1,000
Other computer/information sciences	62,000	38,000	24,000	1,000
Mathematics/statistics	616,000	449,000	128,000	39,000
Applied mathematics	125,000	93,000	22,000	9,000
Mathematics, general	374,000	312,000	56,000	6,000
Operations research	30,000	9,000	19,000	1,000
Statistics	47,000	18,000	23,000	7,000
Other mathematics	40,000	17,000	7,000	16,000
Physical/related sciences	876,000	548,000	161,000	167,000
Chemistry, except biochemistry	421,000	275,000	59,000	86,000
Earth/atmospheric/ocean sciences	211,000	135,000	55,000	21,000
Atmospheric sciences/meteorology	23,000	13,000	6,000	3,000
Earth sciences	19,000	14,000	5,000	*
Geology	134,000	95,000	32,000	8,000
Other geological sciences	23,000	8,000	8,000	7,000
Oceanography	11,000	5,000	3,000	3,000
Physics/astronomy	187,000	93,000	40,000	55,000
Astronomy/astrophysics	10,000	2,000	3,000	5,000
Physics	177,000	90,000	37,000	50,000
Other physical sciences	57,000	46,000	7,000	4,000

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Social/related sciences	4,618,000	3,547,000	840,000	211,000
Economics	680,000	563,000	89,000	28,000
Agricultural economics	107,000	91,000	13,000	3,000
Economics	573,000	472,000	76,000	25,000
Political/related sciences	830,000	688,000	118,000	24,000
Public policy studies	39,000	8,000	28,000	3,000
International relations	120,000	81,000	36,000	3,000
Political science/government	671,000	599,000	54,000	18,000
Psychology	1,734,000	1,133,000	473,000	108,000
Educational psychology	143,000	49,000	90,000	4,000
Clinical psychology	160,000	56,000	54,000	39,000
Counseling psychology	309,000	77,000	217,000	12,000
Experimental psychology	47,000	33,000	5,000	9,000
Psychology, general	808,000	751,000	46,000	8,000
Industrial/organizational psychology	63,000	38,000	20,000	4,000
Social psychology	58,000	45,000	6,000	7,000
Other psychology	148,000	86,000	36,000	25,000
Sociology/anthropology	895,000	798,000	66,000	31,000
Anthropology/archeology	142,000	110,000	21,000	11,000
Criminology	76,000	69,000	6,000	1,000
Sociology	676,000	619,000	38,000	19,000
Other social sciences	479,000	364,000	94,000	21,000
Area/ethnic studies	88,000	63,000	24,000	1,000
Linguistics	35,000	20,000	10,000	5,000
Philosophy of science	29,000	26,000	2,000	1,000
Geography	117,000	96,000	17,000	5,000
History of science	25,000	21,000	3,000	1,000
Other social sciences	185,000	139,000	38,000	8,000
Engineering	2,832,000	2,050,000	642,000	140,000
Aerospace/related engineering	100,000	74,000	19,000	7,000
Chemical engineering	197,000	144,000	33,000	19,000
Civil/architectural engineering	443,000	335,000	96,000	12,000
Architectural engineering	41,000	33,000	8,000	S
Civil engineering	402,000	302,000	88,000	12,000
Electrical/computer engineering	905,000	628,000	237,000	41,000
Computer/systems engineering	174,000	104,000	66,000	5,000
Other electrical/related engineering	731,000	524,000	171,000	36,000
Industrial engineering	181,000	137,000	40,000	4,000
Mechanical engineering	597,000	480,000	100,000	17,000
Other engineering	407,000	251,000	117,000	40,000
Agricultural engineering	28,000	22,000	3,000	2,000
Bioengineering/biomedical engineering	23,000	9,000	10,000	4,000
Engineering science, mechanical/physics	40,000	24,000	9,000	7,000
Environmental engineering	42,000	16,000	24,000	2,000
Engineering, general	51,000	41,000	9,000	1,000
Geophysical/geological engineering	8,000	5,000	2,000	*
Materials engineering	44,000	22,000	12,000	10,000
Metallurgical engineering	26,000	17,000	5,000	4,000
Mining/minerals engineering	19,000	14,000	4,000	1,000
Naval architecture/marine engineering	16,000	15,000	2,000	S

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	All degree levels ^a	Bachelor's	Master's	Doctorate
Nuclear engineering	13,000	6,000	5,000	3,000
Petroleum engineering	25,000	21,000	3,000	*
Other engineering	73,000	38,000	29,000	6,000
S&E-related fields	5,203,000	2,828,000	1,088,000	69,000
Health	3,998,000	1,994,000	740,000	46,000
Audiology/speech pathology	194,000	58,000	130,000	4,000
Health services administration	173,000	71,000	100,000	1,000
Health/medical assistants	6,000	5,000	S	S
Health/medical technologies	135,000	123,000	10,000	1,000
Medical preparatory programs	42,000	40,000	1,000	S
Medicine	1,252,000	57,000	22,000	13,000
Nursing	1,203,000	1,004,000	194,000	6,000
Pharmacy	263,000	197,000	10,000	5,000
Physical therapy/other rehabilitation/therapeutic services	339,000	223,000	112,000	1,000
Public health	121,000	41,000	72,000	8,000
Other health/medical sciences	270,000	174,000	88,000	6,000
Science/mathematics teacher education	439,000	237,000	189,000	12,000
Computer teacher education	39,000	6,000	32,000	S
Mathematics teacher education	145,000	79,000	61,000	4,000
Science teacher education	130,000	63,000	61,000	6,000
Social science teacher education	125,000	89,000	35,000	1,000
Technology/technical fields	397,000	336,000	58,000	4,000
Computer programming	67,000	55,000	11,000	S
Data processing	8,000	8,000	S	S
Electrical/electronic technologies	68,000	59,000	8,000	1,000
Industrial production technologies	116,000	102,000	13,000	S
Mechanical engineering-related technologies	51,000	44,000	6,000	1,000
Other engineering-related technologies	87,000	66,000	19,000	1,000
Other S&E-related fields	369,000	260,000	102,000	7,000
Architecture/environmental design	357,000	249,000	101,000	7,000
Actuarial science	12,000	11,000	1,000	S
Non-S&E fields	4,564,000	1,238,000	2,530,000	160,000
Arts/humanities	390,000	257,000	113,000	20,000
Education, except science/mathematics teacher education	1,044,000	221,000	743,000	76,000
Management/administration	1,522,000	478,000	1,025,000	17,000
Sales/marketing	160,000	54,000	104,000	2,000
Social services/related	357,000	42,000	283,000	19,000
Other non-S&E fields	1,092,000	187,000	262,000	26,000

* = 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. 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.