

TABLE 5. U.S. scientists and engineers, by detailed field and level of highest degree: 2008

Field of highest degree	Level of highest degree			
	All degree levels ^a	Bachelor's	Master's	Doctorate
All degree fields	23,279,000	13,193,000	6,893,000	1,091,000
S&E fields	12,588,000	9,165,000	2,544,000	854,000
Sciences	9,668,000	7,116,000	1,831,000	696,000
Biological/agricultural/environmental life sciences	1,958,000	1,446,000	278,000	234,000
Agricultural/food sciences	312,000	254,000	37,000	22,000
Animal sciences	125,000	116,000	4,000	5,000
Food sciences/technology	39,000	28,000	8,000	3,000
Plant sciences	91,000	66,000	14,000	10,000
Other agricultural sciences	58,000	43,000	11,000	4,000
Biological sciences	1,439,000	1,035,000	200,000	203,000
Biochemistry/biophysics	126,000	72,000	13,000	41,000
Biology, general	671,000	617,000	47,000	8,000
Botany	37,000	21,000	8,000	7,000
Cell/molecular biology	69,000	31,000	11,000	26,000
Ecology	66,000	31,000	26,000	9,000
Genetics, animal/plant	21,000	6,000	5,000	10,000
Microbiological sciences/immunology	111,000	72,000	19,000	20,000
Nutritional science	50,000	34,000	13,000	3,000
Pharmacology, human/animal	24,000	6,000	6,000	11,000
Physiology/pathology/human/animal	58,000	31,000	10,000	17,000
Zoology, general	83,000	53,000	15,000	14,000
Other biological sciences	123,000	62,000	25,000	36,000
Environmental life sciences	207,000	158,000	41,000	8,000
Environmental science studies	124,000	94,000	27,000	4,000
Forestry sciences	83,000	64,000	14,000	5,000
Computer/mathematical sciences	1,921,000	1,355,000	499,000	67,000
Computer/information sciences	1,279,000	887,000	367,000	25,000
Computer/information sciences	235,000	147,000	69,000	18,000
Computer science	708,000	497,000	206,000	5,000
Computer systems analysis	41,000	28,000	13,000	D
Information services/systems	209,000	154,000	55,000	D
Other computer/information sciences	85,000	60,000	24,000	1,000
Mathematics/statistics	642,000	468,000	132,000	43,000
Applied mathematics	110,000	81,000	21,000	8,000
Mathematics, general	399,000	334,000	60,000	5,000
Operations research	34,000	12,000	18,000	4,000
Statistics	57,000	24,000	24,000	9,000
Other mathematics	43,000	18,000	8,000	17,000
Physical/related sciences	846,000	518,000	159,000	169,000
Chemistry, except biochemistry	400,000	258,000	54,000	88,000
Earth/atmospheric/ocean sciences	204,000	125,000	58,000	22,000
Atmospheric sciences/meteorology	24,000	13,000	8,000	3,000
Earth sciences	22,000	16,000	5,000	*
Geology	122,000	83,000	31,000	8,000
Other geological sciences	24,000	8,000	9,000	7,000
Oceanography	12,000	5,000	4,000	3,000
Physics/astronomy	188,000	91,000	41,000	56,000
Astronomy/astrophysics	11,000	2,000	3,000	6,000
Physics	178,000	89,000	38,000	51,000
Other physical sciences	53,000	44,000	6,000	3,000

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	All degree levels ^a	Bachelor's	Master's	Doctorate
Social/related sciences	4,943,000	3,797,000	895,000	226,000
Economics	706,000	597,000	81,000	28,000
Agricultural economics	103,000	87,000	13,000	3,000
Economics	603,000	511,000	68,000	25,000
Political/related sciences	892,000	721,000	146,000	25,000
Public policy studies	53,000	10,000	40,000	3,000
International relations	137,000	90,000	44,000	3,000
Political science/government	703,000	621,000	63,000	19,000
Psychology	1,827,000	1,189,000	493,000	120,000
Educational psychology	122,000	30,000	86,000	5,000
Clinical psychology	153,000	41,000	55,000	43,000
Counseling psychology	316,000	65,000	231,000	14,000
Experimental psychology	46,000	32,000	5,000	9,000
Psychology, general	920,000	864,000	44,000	8,000
Industrial/organizational psychology	62,000	35,000	21,000	4,000
Social psychology	52,000	38,000	5,000	8,000
Other psychology	157,000	83,000	45,000	28,000
Sociology/anthropology	978,000	873,000	73,000	32,000
Anthropology/archeology	161,000	124,000	24,000	12,000
Criminology	84,000	74,000	8,000	1,000
Sociology	734,000	675,000	40,000	19,000
Other social sciences	540,000	417,000	103,000	21,000
Area/ethnic studies	122,000	95,000	25,000	2,000
Linguistics	37,000	21,000	11,000	5,000
Philosophy of science	23,000	21,000	D	D
Geography	136,000	109,000	22,000	5,000
History of science	19,000	14,000	4,000	1,000
Other social sciences	202,000	157,000	39,000	6,000
Engineering	2,921,000	2,049,000	713,000	158,000
Aerospace/related engineering	96,000	65,000	23,000	8,000
Chemical engineering	207,000	154,000	33,000	21,000
Civil/architectural engineering	457,000	336,000	107,000	13,000
Architectural engineering	40,000	31,000	10,000	D
Civil engineering	416,000	305,000	97,000	13,000
Electrical/computer engineering	936,000	629,000	261,000	46,000
Computer/systems engineering	192,000	110,000	75,000	7,000
Other electrical/related engineering	744,000	519,000	185,000	40,000
Industrial engineering	183,000	135,000	43,000	4,000
Mechanical engineering	605,000	477,000	108,000	20,000
Other engineering	437,000	253,000	139,000	45,000
Agricultural engineering	29,000	24,000	3,000	2,000
Bioengineering/biomedical engineering	41,000	19,000	15,000	7,000
Engineering science, mechanical/physics	40,000	23,000	11,000	6,000
Environmental engineering	50,000	19,000	28,000	2,000
Engineering, general	50,000	38,000	11,000	1,000
Geophysical/geological engineering	6,000	4,000	2,000	D
Materials engineering	51,000	25,000	14,000	12,000
Metallurgical engineering	23,000	16,000	4,000	4,000
Mining/minerals engineering	18,000	13,000	4,000	1,000
Naval architecture/marine engineering	15,000	13,000	2,000	D
Nuclear engineering	15,000	6,000	6,000	3,000

TABLE 5. U.S. scientists and engineers, by detailed field and level of highest degree: 2008

Field of highest degree	Level of highest degree			
	All degree levels ^a	Bachelor's	Master's	Doctorate
Petroleum engineering	22,000	18,000	4,000	*
Other engineering	77,000	36,000	36,000	5,000
S&E-related fields	5,570,000	2,911,000	1,306,000	75,000
Health	4,421,000	2,160,000	929,000	54,000
Audiology/speech pathology	212,000	58,000	147,000	4,000
Health services administration	207,000	87,000	119,000	1,000
Health/medical assistance	27,000	12,000	15,000	D
Health/medical technologies	159,000	149,000	9,000	D
Medical preparatory programs	36,000	35,000	S	D
Medicine	1,259,000	43,000	18,000	9,000
Nursing	1,398,000	1,122,000	267,000	9,000
Pharmacy	276,000	190,000	14,000	4,000
Physical therapy/other rehabilitation/therapeutic services	395,000	235,000	141,000	5,000
Public health	161,000	51,000	98,000	12,000
Other health/medical sciences	291,000	178,000	101,000	8,000
Science/mathematics teacher education	426,000	199,000	216,000	11,000
Computer teacher education	37,000	2,000	35,000	D
Mathematics teacher education	143,000	66,000	72,000	5,000
Science teacher education	130,000	51,000	74,000	5,000
Social science teacher education	116,000	80,000	35,000	1,000
Technology/technical fields	352,000	291,000	56,000	5,000
Computer programming	68,000	57,000	10,000	D
Data processing	5,000	4,000	D	D
Electrical/electronic technologies	51,000	45,000	5,000	1,000
Industrial production technologies	106,000	92,000	14,000	D
Mechanical engineering-related technologies	39,000	33,000	5,000	S
Other engineering-related technologies	82,000	60,000	20,000	2,000
Other S&E-related fields	371,000	261,000	106,000	4,000
Architecture/environmental design	359,000	250,000	104,000	4,000
Actuarial science	12,000	11,000	S	D
Non-S&E fields	5,120,000	1,117,000	3,043,000	163,000
Arts/humanities	373,000	228,000	123,000	20,000
Education, except science/mathematics teacher education	1,195,000	197,000	919,000	75,000
Management/administration	1,648,000	433,000	1,197,000	17,000
Sales/marketing	172,000	51,000	119,000	2,000
Social services/related	422,000	36,000	347,000	24,000
Other non-S&E fields	1,311,000	172,000	337,000	24,000

* = value < 500. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

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 bachelor's or higher degree in S&E or S&E-related field through 30 June 2007, plus any person holding non-S&E bachelor's or higher degree who was employed in S&E or S&E-related occupation on 1 October 2003. See <http://sestat.nsf.gov/docs/ed03maj.html> for detailed description of educational field classification. Numbers are rounded to nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2008.