

Table B-1. U.S. scientists and engineers, by detailed field and level of highest degree attained: 1997

Field of highest degree	Level of highest degree			
	All degree levels, total ¹	Bachelor's	Master's	Doctorate
All degree fields, total	12,530,700	7,469,000	3,316,800	790,500
S&E degree fields, total	9,269,200	6,906,400	1,698,100	654,900
Sciences, total	6,977,800	5,212,100	1,209,600	546,400
Computer/math sciences, total	1,136,000	817,000	278,900	39,900
Computer/information sciences	581,500	410,600	160,800	9,900
Computer/information sciences, general ...	115,200	79,000	28,400	7,800
Computer science	343,100	241,000	99,900	1,900
Computer systems analysis	27,100	19,100	7,900	100
Information services/systems	81,100	62,200	18,900	S
Other computer/information sciences	15,100	9,300	5,700	100
Mathematical sciences	554,500	406,400	118,100	30,000
Applied mathematics	59,700	45,900	9,600	4,200
Mathematics, general	383,600	313,900	65,200	4,600
Operations research	33,800	12,600	20,600	600
Statistics	34,500	11,700	17,800	5,000
Other mathematical sciences	42,800	22,300	4,900	15,600
Life/related sciences, total	1,475,600	1,090,600	197,000	186,500
Agricultural/food sciences	260,300	208,600	31,900	19,600
Animal sciences	92,300	81,300	6,100	4,700
Food sciences/technology	32,800	25,000	5,500	2,400
Plant sciences	81,000	59,300	12,400	9,200
Other agricultural sciences	54,100	43,000	7,800	3,300
Biological sciences	1,103,800	796,400	144,700	161,700
Biochemistry/biophysics	80,500	43,000	9,200	28,300
Biology, general	535,100	477,300	51,600	6,000
Botany	28,700	13,600	7,700	7,300
Cell/molecular biology	29,100	11,600	5,500	12,000
Ecology	24,200	12,200	7,400	4,600
Genetics, animal/plant	14,000	4,900	3,300	5,800
Microbiology	74,200	51,000	10,900	12,300
Nutritional science	46,300	32,500	11,800	2,000
Pharmacology, human and animal	14,600	4,500	2,400	7,500
Physiology, human and animal	30,800	10,000	9,700	10,600
Zoology, general	85,700	58,100	11,800	15,800
Other biological sciences	140,500	77,500	13,300	49,500
Environmental life sciences	111,500	85,600	20,400	5,100
Environmental science studies	66,700	48,500	15,400	2,400
Forestry services	44,800	37,100	5,000	2,700
Physical/related sciences, total	773,200	489,000	142,700	140,800
Chemistry, except biochemistry	359,500	239,200	46,200	74,000
Earth science, geology and oceanography	174,700	114,400	41,700	18,400
Atmospheric sciences/meteorology	14,700	7,900	4,000	2,700
Earth sciences	21,200	16,400	4,300	400
Geology	109,600	78,500	23,800	7,300
Other geological sciences	20,800	7,900	7,400	5,600
Oceanography	8,300	3,700	2,200	2,500

See explanatory information, if any, and SOURCE at end of table.

Table B-1. U.S. scientists and engineers, by detailed field and level of highest degree attained: 1997

Field of highest degree	Level of highest degree			
	All degree levels, total ¹	Bachelor's	Master's	Doctorate
All degree fields, total — continued				
Physics/astronomy	173,000	86,100	40,000	46,500
Astronomy/astrophysics	9,500	3,400	2,100	4,000
Physics	163,400	82,700	37,900	42,500
Other physical/related sciences	66,000	49,300	14,800	2,000
Social/related sciences, total	3,593,000	2,815,500	591,100	179,200
Economics	485,600	408,200	52,800	24,700
Agricultural economics	77,800	64,800	10,400	2,500
Economics	407,800	343,300	42,400	22,200
Political/related sciences	664,400	563,300	82,700	18,400
International relations	82,800	51,700	28,700	2,500
Public policy studies	20,000	7,100	11,500	1,400
Political science/government	561,600	504,500	42,500	14,600
Psychology	1,339,800	910,900	328,800	92,900
Educational psychology	75,900	23,100	49,100	2,500
Experimental psychology	30,700	15,800	6,700	8,200
Clinical psychology	100,300	29,700	35,900	32,800
Counseling psychology	188,000	41,200	135,400	10,200
Industrial/organizational psychology	47,100	31,900	12,400	2,800
Psychology, general	746,300	685,700	49,400	9,100
Social psychology	27,600	19,000	2,800	5,600
Other psychology	123,800	64,600	36,900	21,600
Sociology/anthropology	699,300	623,000	50,200	26,100
Anthropology/archeology	112,100	87,600	15,200	9,300
Criminology	36,100	32,600	2,800	700
Sociology	551,100	502,800	32,200	16,000
Other social sciences	403,900	310,100	76,600	17,200
Area/ethnic studies	62,300	51,000	10,500	800
Geography	81,900	64,400	13,700	3,800
History of science	12,300	10,600	1,100	600
Linguistics	35,400	19,300	11,400	4,700
Philosophy of science	18,800	15,800	2,800	200
Other social sciences	193,200	149,100	37,100	7,000
Engineering, total	2,291,400	1,694,300	488,500	108,500
Aerospace/related engineering	95,500	69,000	22,000	4,500
Chemical engineering	172,000	128,100	28,700	15,200
Civil/architectural engineering	380,700	293,500	77,200	10,000
Architectural engineering	44,000	37,800	6,000	200
Civil engineering	336,700	255,700	71,200	9,700
Electrical/related engineering	686,500	496,100	161,500	28,900
Computer/systems engineering	61,400	36,600	22,000	2,800
Other electrical/related engineering	625,000	459,400	139,500	26,100
Industrial engineering	130,600	101,700	25,400	3,500
Mechanical engineering	468,800	381,700	74,100	12,900

See explanatory information, if any, and SOURCE at end of table.

Table B-1. U.S. scientists and engineers, by detailed field and level of highest degree attained: 1997

Field of highest degree	Level of highest degree			
	All degree levels, total ¹	Bachelor's	Master's	Doctorate
All degree fields, total — continued				
Other engineering	357,300	224,200	99,500	33,500
Agricultural engineering	25,200	19,700	3,500	1,900
Bioengineering/biomedical engineering	14,100	6,600	4,600	2,900
Engineering, general	40,800	32,900	7,000	900
Engineering sci, mechanical/physics	43,400	27,000	9,900	6,500
Environmental engineering	30,700	9,800	19,100	1,700
Geophysical engineering	3,600	3,200	400	S
Materials engineering	41,400	22,200	11,900	7,300
Metallurgical engineering	30,000	19,200	7,300	3,600
Mining/minerals engineering	9,900	8,000	1,600	400
Naval architecture/marine engineering	21,900	19,300	2,600	100
Nuclear engineering	17,300	6,500	8,100	2,700
Petroleum engineering	20,500	18,100	1,900	400
Other engineering	58,400	31,500	21,700	5,200
Non-S&E degrees, total	3,261,500	562,600	1,618,700	135,600
Business/management	780,300	173,000	587,300	14,300
Education	539,100	57,900	419,800	53,300
Health	645,600	71,300	107,300	—
Other non-S&E	1,296,600	260,400	504,400	67,900

¹ Includes professional degrees

NOTES: The term "Scientists and Engineers" (S&Es) includes all persons who have ever received a bachelor's degree or higher in a science or engineering (S&E) field, plus persons holding a non-S&E bachelor's or higher degree who were employed in a S&E occupation during either the 1993, 1995 or 1997 SESTAT surveys. Figures are rounded to nearest hundred. Details may not add to total because of rounding.

KEY: S = Suppressed for reasons of confidentiality and/or data reliability
 — = Not available because PhDs in health related fields are considered as S&E under Biological sciences

SOURCE: National Science Foundation/Science Resources Studies Division, 1997 SESTAT (Scientists and Engineers Statistical Data System)