

Table B-1. U.S. scientists and engineers, by detailed field and level of highest degree attained: 1999

Field of highest degree	Level of highest degree			
	All degree levels, total ¹	Bachelor's	Master's	Doctorate
All degree fields, total	13,050,800	7,682,100	3,535,900	839,000
S&E degree fields, total	9,614,400	7,131,300	1,775,600	698,500
Sciences, total	7,291,100	5,441,700	1,259,900	580,400
Computer/math sciences, total	1,185,600	845,300	295,600	44,500
Computer/information sciences	625,300	440,300	172,400	12,400
Computer/information sciences, general	131,700	90,300	31,300	10,100
Computer science	365,000	258,000	104,700	2,100
Computer systems analysis	26,400	17,500	8,800	100
Information services/systems	84,200	62,800	21,400	S
Other computer/information sciences	18,000	11,600	6,300	100
Mathematical sciences	560,300	404,900	123,200	32,200
Applied mathematics	60,800	44,500	11,000	5,300
Mathematics, general	387,000	315,100	67,400	4,500
Operations research	32,000	10,900	20,600	600
Statistics	36,300	12,000	18,700	5,700
Other mathematical sciences	44,100	22,500	5,500	16,100
Life/related sciences, total	1,582,900	1,177,300	203,100	202,000
Agricultural/food sciences	276,000	220,100	35,000	21,000
Animal sciences	99,700	87,600	7,500	4,600
Food sciences/technology	36,100	27,500	5,700	2,900
Plant sciences	82,700	59,700	13,100	9,900
Other agricultural sciences	57,400	45,200	8,700	3,500
Biological sciences	1,186,600	863,900	147,300	175,400
Biochemistry/biophysics	86,300	46,700	10,000	29,600
Biology, general	580,600	522,100	52,700	5,800
Botany	28,200	13,900	6,900	7,400
Cell/molecular biology	35,700	15,100	5,700	14,800
Ecology	29,600	16,200	8,200	5,200
Genetics, animal/plant	13,400	5,100	2,500	5,800
Microbiology	75,200	51,100	10,000	14,100
Nutritional science	44,900	29,200	12,700	3,000
Pharmacology, human and animal	15,500	5,000	2,800	7,700
Physiology, human and animal	31,300	10,400	10,000	10,900
Zoology, general	85,900	58,200	12,100	15,600
Other biological sciences	159,800	90,700	13,700	55,400
Environmental life sciences	120,300	93,400	20,800	5,700
Environmental science studies	77,100	58,400	15,800	2,500
Forestry sciences	43,200	35,000	5,000	3,200
Physical/related sciences, total	777,400	486,200	143,100	147,000
Chemistry, except biochemistry	363,700	238,800	48,200	76,500
Earth science, geology and oceanography	178,900	117,900	41,700	19,100
Atmospheric sciences/meteorology	14,200	7,700	3,700	2,500
Earth sciences	22,000	17,000	4,700	300
Geology	111,200	79,800	23,800	7,700
Other geological sciences	21,700	8,900	7,100	5,800
Oceanography	9,600	4,500	2,300	2,800

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

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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	174,500	84,900	39,500	49,500
Astronomy/astrophysics	10,100	3,300	2,600	4,300
Physics	164,400	81,600	36,900	45,200
Other physical/related sciences	60,300	44,600	13,700	2,000
Social/related sciences, total	3,745,200	2,932,900	618,100	186,800
Economics	487,000	407,800	53,400	25,800
Agricultural economics	78,500	65,500	10,400	2,600
Economics	408,500	342,300	43,000	23,200
Political/related sciences	683,800	578,200	86,500	19,100
International relations	85,700	53,600	29,800	2,300
Public policy studies	22,800	7,700	13,500	1,600
Political science/government	575,300	516,900	43,200	15,200
Psychology	1,408,600	963,800	339,500	98,000
Educational psychology	76,800	23,000	50,300	2,700
Experimental psychology	33,500	18,300	6,700	8,500
Clinical psychology	104,000	29,500	35,900	36,700
Counseling psychology	187,900	39,500	137,000	10,500
Industrial/organizational psychology	45,400	30,000	12,100	3,300
Psychology, general	797,400	735,100	51,900	8,300
Social psychology	28,900	18,700	3,800	5,700
Other psychology	135,200	69,700	41,800	22,700
Sociology/anthropology	734,900	653,600	54,800	26,500
Anthropology/archeology	122,800	97,400	15,800	9,600
Criminology	38,800	34,900	3,100	700
Sociology	573,400	521,300	35,900	16,100
Other social sciences	430,900	329,400	84,000	17,500
Area/ethnic studies	74,700	61,300	12,500	900
Geography	88,900	69,100	15,500	4,300
History of science	9,000	7,200	1,200	600
Linguistics	36,600	20,600	11,400	4,600
Philosophy of science	19,300	16,500	2,700	100
Other social sciences	202,200	154,800	40,700	6,700
Engineering, total	2,323,300	1,689,600	515,700	118,100
Aerospace/related engineering	91,900	64,400	22,300	5,200
Chemical engineering	182,800	138,500	28,200	16,100
Civil/architectural engineering	386,700	294,300	81,700	10,700
Architectural engineering	42,000	36,000	5,900	100
Civil engineering	344,700	258,200	75,800	10,700
Electrical/related engineering	696,900	496,100	169,900	30,900
Computer/systems engineering	66,900	40,800	23,000	3,000
Other electrical/related engineering	630,000	455,200	146,900	27,900
Industrial engineering	129,900	100,500	26,000	3,500
Mechanical engineering	469,300	375,500	78,700	15,100

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: 1999

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	365,800	220,400	108,900	36,500
Agricultural engineering	25,000	19,200	3,800	2,000
Bioengineering/biomedical engineering	15,100	7,000	5,000	3,100
Engineering, general	41,900	33,100	7,900	900
Engineering sci, mechanical/physics	43,500	26,500	10,500	6,500
Environmental engineering	33,700	10,800	21,000	1,800
Geophysical engineering	3,500	3,100	400	S
Materials engineering	42,900	22,100	11,800	9,000
Metallurgical engineering	27,500	16,400	7,400	3,700
Mining/minerals engineering	9,600	7,500	1,600	400
Naval architecture/marine engineering	19,900	17,300	2,600	S
Nuclear engineering	18,000	6,700	8,600	2,700
Petroleum engineering	21,600	18,800	2,300	500
Other engineering	63,500	31,700	25,900	5,900
Non-S&E degrees, total	3,436,400	550,800	1,760,300	140,600
Business/management	826,900	170,200	637,200	14,100
Education	565,900	55,000	446,200	57,100
Health	676,100	69,300	130,400	—
Other non-S&E	1,367,400	256,300	546,500	69,300

¹ Total includes professional degrees not broken out separately.

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, 1997, or 1999 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 applicable because PhDs in health related fields are considered as S&E under Biological sciences

SOURCE: National Science Foundation/Science Resources Statistics Division, 1999 SESTAT (Scientists and Engineers Statistical Data System)