

**Table B-1. U.S. scientists and engineers, by detailed field and level of highest degree attained: 1993**

Field of highest degree	Level of highest degree			
	All degree levels, total <sup>1</sup>	Bachelor's	Master's	Doctorate
<b>All degree fields, total</b> .....	11,615,200	6,975,000	3,011,700	706,700
<b>S&amp;E degree fields, total</b> .....	8,571,000	6,402,200	1,571,900	589,600
<b>Sciences, total</b> .....	6,354,300	4,726,000	1,123,600	497,400
<b>Computer/math sciences, total</b> .....	1,046,400	761,100	250,600	34,800
<b>Computer/information sciences</b> .....	515,100	374,000	134,200	6,900
Computer/information sciences, general ...	101,300	72,100	23,900	5,300
Computer science .....	302,100	217,800	82,900	1,500
Computer systems analysis .....	30,600	22,300	8,300	100
Information services/systems .....	68,400	53,200	15,200	S
Other computer/information sciences .....	12,600	8,700	3,800	100
<b>Mathematical sciences</b> .....	531,300	387,100	116,400	27,900
Applied mathematics .....	57,300	44,700	8,700	3,800
Mathematics, general .....	364,300	295,200	65,200	3,900
Operations research .....	35,400	12,300	22,300	800
Statistics .....	32,100	12,100	15,300	4,700
Other mathematical sciences .....	42,300	22,800	4,900	14,600
<b>Life/related sciences, total</b> .....	1,322,600	966,400	187,500	168,700
<b>Agricultural/food sciences</b> .....	243,700	192,000	33,100	18,600
Animal sciences .....	83,400	71,800	7,200	4,400
Food sciences/technology .....	30,300	22,200	6,000	2,100
Plant sciences .....	77,700	56,000	12,500	9,100
Other agricultural sciences .....	52,300	42,000	7,400	3,000
<b>Biological sciences</b> .....	982,000	698,500	137,800	145,700
Biochemistry/biophysics .....	74,800	39,800	8,700	26,400
Biology, general .....	463,600	410,900	47,700	5,000
Botany .....	27,400	13,400	6,700	7,300
Cell/molecular biology .....	22,200	7,200	5,800	9,200
Ecology .....	21,500	10,300	7,300	3,900
Genetics, animal/plant .....	12,000	4,400	3,000	4,600
Microbiology .....	71,100	47,700	11,500	11,900
Nutritional science .....	48,800	34,500	12,600	1,700
Pharmacology, human and animal .....	14,200	4,600	2,700	6,900
Physiology, human and animal .....	27,500	9,300	8,600	9,600
Zoology, general .....	83,600	56,800	11,500	15,200
Other biological sciences .....	115,200	59,600	11,700	43,900
<b>Environmental life sciences</b> .....	97,000	75,900	16,700	4,400
Environmental science studies .....	49,500	35,800	11,700	2,000
Forestry services .....	47,500	40,100	5,000	2,400
<b>Physical/related sciences, total</b> .....	760,700	489,700	139,200	131,800
<b>Chemistry, except biochemistry</b> .....	345,000	231,800	44,000	69,300
<b>Earth science, geology and oceanography</b> .....	175,900	116,900	41,500	17,600
Atmospheric sciences/meteorology .....	12,600	6,400	4,000	2,200
Earth sciences .....	18,600	14,200	4,100	300
Geology .....	116,800	84,800	24,400	7,500
Other geological sciences .....	19,300	7,100	6,600	5,500
Oceanography .....	8,600	4,300	2,200	2,100

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

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<b>All degree fields, total — continued</b>				
<b>Physics/astronomy</b> .....	173,900	91,300	39,100	43,500
Astronomy/astrophysics .....	8,900	3,400	2,200	3,300
Physics .....	165,000	87,900	36,900	40,200
<b>Other physical/related sciences</b> .....	34,800	24,700	8,700	1,400
<b>Social/related sciences, total</b> .....	3,224,500	2,508,800	546,300	162,200
<b>Economics</b> .....	482,300	407,100	52,300	22,900
Agricultural economics .....	71,900	59,400	10,100	2,400
Economics .....	410,400	347,700	42,100	20,500
<b>Political/related sciences</b> .....	579,800	489,100	73,300	17,400
International relations .....	65,400	38,700	24,500	2,300
Public policy studies .....	13,400	4,500	7,900	900
Political science/government .....	501,000	445,900	40,900	14,200
<b>Psychology</b> .....	1,177,600	783,800	304,300	82,400
Educational psychology .....	75,400	24,100	47,100	3,100
Experimental psychology .....	34,200	18,000	7,800	8,100
Clinical psychology .....	97,100	34,100	31,600	29,200
Counseling psychology .....	181,800	44,500	128,400	8,300
Industrial/organizational psychology .....	49,200	34,400	12,300	2,400
Psychology, general .....	610,900	558,500	43,000	7,500
Social psychology .....	29,600	20,800	3,400	5,100
Other psychology .....	99,400	49,400	30,600	18,600
<b>Sociology/anthropology</b> .....	635,300	559,800	51,500	24,100
Anthropology/archeology .....	89,300	66,800	14,200	8,300
Criminology .....	32,300	28,700	3,100	600
Sociology .....	513,700	464,300	34,200	15,200
<b>Other social sciences</b> .....	349,500	269,000	65,100	15,400
Area/ethnic studies .....	39,100	29,300	9,100	800
Geography .....	71,100	56,500	10,800	3,700
History of science .....	11,500	9,700	1,300	500
Linguistics .....	41,800	26,400	11,700	3,800
Philosophy of science .....	21,900	17,900	3,500	500
Other social sciences .....	164,200	129,400	28,700	6,100
<b>Engineering, total</b> .....	2,216,700	1,676,100	448,300	92,200
<b>Aerospace/related engineering</b> .....	100,800	73,700	23,300	3,700
<b>Chemical engineering</b> .....	169,900	127,500	28,800	13,600
<b>Civil/architectural engineering</b> .....	365,000	283,600	72,600	8,900
Architectural engineering .....	48,800	42,200	6,300	200
Civil engineering .....	316,200	241,300	66,200	8,600
<b>Electrical/related engineering</b> .....	648,700	480,400	145,100	23,200
Computer/systems engineering .....	55,000	32,600	20,400	2,000
Other electrical/related engineering .....	593,800	447,800	124,800	21,200
<b>Industrial engineering</b> .....	126,900	102,800	21,600	2,500
<b>Mechanical engineering</b> .....	454,500	374,100	69,000	11,500

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<b>All degree fields, total — continued</b>				
<b>Other engineering</b> .....	350,200	233,700	87,700	28,800
Agricultural engineering .....	23,400	18,700	3,300	1,400
Bioengineering/biomedical engineering .....	10,800	5,100	3,700	2,100
Engineering, general .....	40,000	33,900	5,300	800
Engineering sci, mechanical/physics .....	42,800	28,300	8,900	5,700
Environmental engineering .....	28,000	10,100	16,400	1,500
Geophysical engineering .....	3,500	2,900	400	100
Materials engineering .....	34,400	19,800	9,400	5,200
Metallurgical engineering .....	33,000	20,600	8,500	3,900
Mining/minerals engineering .....	11,200	9,400	1,600	300
Naval architecture/marine engineering .....	24,100	21,700	2,300	S
Nuclear engineering .....	16,200	6,100	7,800	2,300
Petroleum engineering .....	23,500	20,900	2,400	300
Other engineering .....	59,100	36,300	17,700	5,200
<b>Non-S&amp;E degrees, total</b> .....	3,044,200	572,800	1,439,800	117,100
Business/management .....	714,000	182,800	513,800	12,400
Education .....	497,100	64,300	379,200	47,200
Health .....	624,300	60,300	86,300	—
Other non-S&E .....	1,208,700	265,400	460,400	57,400

<sup>1</sup> 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 are employed in an S&E occupation.  
 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, 1993 SESTAT (Scientists and Engineers Statistical Data System)