Table B-7. U.S. scientists and engineers, by level and field of highest degree attained and age: 1993

Level and field of highest degree	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
All degree levels[1]										
All degree fields, total	11,615,200	333,400	1,185,300	1,612,000	1,807,700	1,875,000	1,565,700	1,003,600	696,700	1,535,800
S&E degree fields, total	8,571,000	330,500	1,021,800	1,205,500	1,274,400	1,288,400	1,066,500	698,700	494,800	1,190,400
Sciences, total	6,354,300	284,100	775,500	853,200	954,000	1,041,200	838,600	519,600	333,500	754,400
Computer/math sciences, total	1,046,400	31,500	158,600	213,700	164,100	148,200	127,600	86,500	47,600	68,600
Computer/information sciences	515,100	15,800	103,500	155,900	102,700	67,100	38,800	20,100	6,800	4,400
Mathematical sciences	531,300	15,700	55,100	57,800	61,400	81,100	88,800	66,300	40,800	64,300
Life/related sciences, total	1,322,600	58,900	143,500	172,900	242,000	220,400	160,000	102,800	66,700	155,500
Agricultural/food sciences	243,700	4,400	17,300	38,400	47,500	35,000	25,600	15,200	17,700	42,500
Biological sciences	982,000	50,300	118,900	122,500	170,800	168,200	123,100	80,400	44,600	103,100
Environmental life sciences	97,000	4,200	7,300	12,100	23,700	17,200	11,300	7,200	4,300	9,900
Physical/related sciences, total	760,700	19,300	62,900	95,100	103,500	102,100	83,900	77,500	57,700	158,800
Chemistry, except biochemistry	345,000	9,800	27,200	33,400	41,900	43,200	42,900	38,200	27,200	81,200
Earth science, geology and oceanography	175,900	2,700	12,100	32,400	34,300	26,100	14,600	11,500	12,100	30,100
Physics/astronomy	173,900	5,400	18,000	22,400	17,400	21,000	20,200	21,900	15,300	32,300
Other physical sciences	34,800	200	3,400	3,900	5,100	7,700	2,800	3,200	1,200	7,300
Social/related sciences, total	3,224,500	174,400	410,500	371,500	444,500	570,600	467,100	252,900	161,600	371,400
Economics	482,300	29,300	69,900	66,100	61,200	64,300	51,100	33,900	29,400	77,100
Political/related sciences	579,800	47,700	102,300	80,100	76,200	79,400	69,400	41,000	24,200	59,400
Psychology	1,177,600	64,400	149,900	128,100	172,300	227,500	175,300	89,200	54,900	116,000
Sociology/anthropology	635,300	25,200	54,300	59,400	87,300	133,900	112,000	54,900	35,300	73,100
Other social sciences	349,500	7,800	34,200	37,700	47,600	65,400	59,300	33,900	17,800	45,800
Engineering, total	2,216,700	46,400	246,300	352,300	320,400	247,100	227,800	179,100	161,200	436,000
Aerospace/related engineering	100,800	4,000	12,700	15,600	12,000	8,600	10,100	8,900	6,200	22,500
Chemical engineering	169,900	3,400	16,000	26,100	22,800	18,800	19,200	12,000	11,800	39,700
Civil/architectural engineering	365,000	5,400	30,400	50,100	57,500	51,700	42,000	28,600	28,300	71,000
Electrical/related engineering	648,700	14,400	88,900	113,900	99,300	70,200	64,300	53,700	41,400	102,700
Industrial engineering	126,900	3,000	17,900	19,400	17,400	11,000	12,400	9,500	8,100	28,200
Mechanical engineering	454,500	9,700	51,000	74,400	56,000	44,400	40,800	35,200	38,000	105,000
Other engineering	350,200	6,500	29,300	52,200	55,300	42,400	39,000	31,200	27,400	66,800
Non-S&E degrees, total	3,044,200	2,800	163,500	406,500	533,300	586,600	499,200	304,900	201,900	345,400
Bachelor's										
All degree fields, total	6,975,000	327,600	965,400	1,057,600	1,073,600	1,027,000	791,400	472,500	348,000	911,800
S&E degree fields, total	6,402,200	326,900	908,400	958,100	948,900	922,700	709,800	427,900	321,400	877,900

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

Table B-7. U.S. scientists and engineers, by level and field of highest degree attained and age: 1993

Level and field of highest degree	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
Bachelor's — continued										
Sciences, total	4,726,000	282,000	705,700	688,000	715,000	754,500	550,000	308,300	207,800	514,800
Computer/math sciences, total	761,100	31,300	140,700	171,400	115,500	98,600	80,700	49,800	25,800	47,300
Computer/information sciences	374,000	15,800	92,100	127,500	68,200	38,700	19,000	9,000	2,500	1,400
Mathematical sciences	387,100	15,500	48,700	43,900	47,200	60,000	61,800	40,800	23,400	45,900
Life/related sciences, total	966,400	58,700	129,100	134,900	185,900	157,200	99,800	57,100	39,000	104,700
Agricultural/food sciences	192,000	4,400	14,600	33,100	38,500	25,800	18,300	10,500	13,200	33,500
Biological sciences	698,500	50,100	108,000	92,500	128,200	118,300	73,300	42,100	22,400	63,500
Environmental life sciences	75,900	4,200	6,500	9,200	19,200	13,100	8,200	4,500	3,300	7,600
Physical/related sciences, total	489,700	19,000	51,900	63,600	66,100	62,100	46,600	38,700	36,100	105,700
Chemistry, except biochemistry	231,800	9,600	24,100	21,300	25,500	27,800	27,300	21,100	17,900	57,300
Earth science, geology and oceanography	116,900	2,700	9,600	24,200	24,700	15,500	6,600	4,700	9,000	19,800
Physics/astronomy	91,300	5,200	13,300	13,200	8,200	9,300	8,100	9,500	6,800	17,800
Other physical sciences	24,700	200	2,800	2,400	3,700	6,100	2,200	1,800	900	4,600
Social/related sciences, total	2,508,800	173,000	383,900	318,200	347,500	436,600	322,800	162,600	106,900	257,100
Economics	407,100	29,000	66,500	58,700	50,100	51,600	39,900	26,500	22,000	62,900
Political/related sciences	489,100	47,600	98,200	71,200	64,500	65,000	51,900	32,000	18,800	39,800
Psychology	783,800	63,400	135,800	101,400	116,400	149,700	88,900	38,800	25,900	63,400
Sociology/anthropology	559,800	25,200	51,600	55,300	78,500	119,200	97,500	44,000	28,600	60,000
Other social sciences	269,000	7,800	31,700	31,600	38,000	51,300	44,600	21,300	11,600	31,000
Engineering, total	1,676,100	44,900	202,800	270,100	234,000	168,200	159,900	119,700	113,600	363,100
Aerospace/related engineering	73,700	3,800	10,600	12,800	9,300	5,900	6,900	5,000	3,400	16,000
Chemical engineering	127,500	3,400	14,000	19,500	16,900	13,600	13,000	7,400	7,600	32,100
Civil/architectural engineering	283,600	5,200	25,900	40,000	43,300	39,200	29,500	19,500	20,200	60,700
Electrical/related engineering	480,400	13,700	70,800	83,700	69,900	46,500	45,800	35,700	29,900	84,300
Industrial engineering	102,800	2,900	14,800	16,300	13,300	6,900	10,400	7,400	6,000	24,800
Mechanical engineering	374,100	9,500	43,900	60,400	45,600	33,200	32,600	27,900	28,500	92,500
Other engineering	233,700	6,400	22,800	36,900	35,600	22,900	21,600	16,700	18,000	52,700
Non-S&E degrees, total	572,800	700	57,000	99,500	124,700	104,300	81,600	44,600	26,600	33,900
Master's										
All degree fields, total	3,011,700	5,500	165,400	356,400	463,000	538,400	519,700	347,600	222,800	393,000
S&E degree fields, total	1,571,900	3,600	105,700	195,600	239,900	266,600	254,300	177,600	116,300	212,300
Sciences, total	1,123,600	2,100	64,400	123,400	167,500	200,100	200,300	133,100	79,700	153,100

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

Table B-7. U.S. scientists and engineers, by level and field of highest degree attained and age: 1993

Level and field of highest degree	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
Master's — continued										
Computer/math sciences, total	250,600	200	17,000	38,500	43,400	44,300	40,600	30,400	18,500	17,600
Computer/information sciences	134,200	S	11,200	26,800	32,400	26,800	18,800	10,900	4,300	3,000
Mathematical sciences	116,400	200	5,800	11,700	11,000	17,500	21,700	19,500	14,200	14,700
Life/related sciences, total	187,500	200	12,300	23,600	28,200	32,600	32,300	21,800	13,300	23,200
Agricultural/food sciences	33,100	S	2,600	3,800	5,900	5,900	5,000	1,900	3,000	5,000
Biological sciences	137,800	200	8,900	17,000	18,500	23,400	25,200	18,100	9,800	16,700
Environmental life sciences	16,700	S	800	2,700	3,800	3,300	2,100	1,800	600	1,500
Physical/related sciences, total	139,200	300	9,600	18,200	19,300	21,100	18,400	18,100	7,600	26,800
Chemistry, except biochemistry	44,000	200	2,200	4,900	6,500	5,800	6,700	6,600	2,400	8,800
Earth science, geology and oceanography	41,500	S	2,300	6,600	7,400	8,000	4,700	4,100	1,100	7,300
Physics/astronomy	39,100	100	4,400	5,100	3,500	5,500	5,600	5,100	3,400	6,500
Other physical sciences	8,700	S	600	1,200	1,200	1,300	400	1,200	300	2,600
Social/related sciences, total	546,300	1,300	25,400	43,200	76,600	102,100	109,100	62,800	40,300	85,500
Economics	52,300	200	3,200	6,000	7,700	9,600	7,000	3,700	5,500	9,200
Political/related sciences	73,300	100	4,000	8,500	9,900	11,900	13,700	5,500	3,900	15,800
Psychology	304,300	1,000	13,300	20,100	44,300	59,200	66,700	37,800	21,700	40,100
Sociology/anthropology	51,500	S	2,600	3,400	6,700	9,800	9,900	6,200	4,200	8,600
Other social sciences	65,100	S	2,400	5,200	8,000	11,500	11,800	9,500	5,000	11,700
Engineering, total	448,300	1,500	41,300	72,100	72,400	66,500	54,000	44,600	36,600	59,200
Aerospace/related engineering	23,300	200	2,200	2,500	2,300	2,200	2,700	3,200	2,000	6,000
Chemical engineering	28,800	S	1,800	4,600	3,700	3,800	4,300	2,400	2,400	5,800
Civil/architectural engineering	72,600	200	4,400	9,200	13,000	11,600	10,700	7,500	7,000	9,100
Electrical/related engineering	145,100	600	17,600	27,400	25,600	20,500	14,800	14,200	9,200	15,200
Industrial engineering	21,600	100	2,900	2,900	3,600	3,900	1,700	1,600	1,700	3,100
Mechanical engineering	69,000	200	6,500	12,800	8,400	9,700	6,600	5,600	8,300	11,000
Other engineering	87,700	100	6,000	12,600	15,900	14,900	13,100	10,100	6,100	9,000
Non-S&E degrees, total	1,439,800	1,900	59,700	160,900	223,100	271,800	265,400	170,000	106,500	180,600
Doctorate										
All degree fields, total	706,700	S	8,600	58,600	93,400	112,000	122,700	112,800	74,000	124,600
S&E degree fields, total	589,600	S	7,600	51,500	85,200	97,100	100,300	92,400	56,500	99,000
Sciences, total	497,400	S	5,500	41,400	71,200	84,700	86,400	77,500	45,500	85,300

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

Table B-7. U.S. scientists and engineers, by level and field of highest degree attained and age: 1993

Level and field of highest degree	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
Doctorate — continued										
Computer/math sciences, total	34,800	S	900	3,900	5,200	5,300	6,300	6,300	3,200	3,700
Computer/information sciences	6,900	S	300	1,600	2,000	1,700	1,100	300	100	S
Mathematical sciences	27,900	S	600	2,300	3,200	3,600	5,200	6,000	3,200	3,700
Life/related sciences, total	168,700	S	2,000	14,400	27,900	30,600	27,900	23,800	14,400	27,600
Agricultural/food sciences	18,600	S	100	1,400	3,100	3,400	2,300	2,800	1,600	4,000
Biological sciences	145,700	S	1,900	12,900	24,200	26,500	24,600	20,200	12,400	22,900
Environmental life sciences	4,400	S	S	100	600	700	1,000	800	400	700
Physical/related sciences, total	131,800	S	1,400	13,400	18,100	18,900	19,000	20,700	14,100	26,300
Chemistry, except biochemistry	69,300	S	900	7,300	9,900	9,700	8,800	10,500	6,900	15,200
Earth science, geology and oceanography	17,600	S	100	1,600	2,200	2,700	3,300	2,600	2,000	3,100
Physics/astronomy	43,500	S	400	4,200	5,700	6,200	6,600	7,300	5,100	8,000
Other physical sciences	1,400	S	S	200	200	300	300	200	100	200
Social/related sciences, total	162,200	S	1,200	9,800	20,100	29,900	33,200	26,600	13,800	27,600
Economics	22,900	S	200	1,400	3,400	3,200	4,300	3,600	1,900	5,000
Political/related sciences	17,400	S	S	500	1,800	2,500	3,800	3,500	1,500	3,800
Psychology	82,400	S	900	6,200	11,100	16,700	17,700	11,800	6,700	11,300
Sociology/anthropology	24,100	S	100	800	2,100	4,900	4,700	4,700	2,500	4,500
Other social sciences	15,400	S	100	900	1,600	2,600	2,800	3,100	1,200	3,000
Engineering, total	92,200	S	2,200	10,100	14,000	12,400	14,000	14,900	11,000	13,700
Aerospace/related engineering	3,700	S	S	300	400	500	500	700	800	500
Chemical engineering	13,600	S	200	2,000	2,200	1,400	1,900	2,200	1,800	1,800
Civil/architectural engineering	8,900	S	100	900	1,300	800	1,800	1,700	1,100	1,200
Electrical/related engineering	23,200	S	500	2,800	3,800	3,100	3,800	3,800	2,400	3,100
Industrial engineering	2,500	S	200	200	400	300	200	400	400	400
Mechanical engineering	11,500	S	600	1,300	2,100	1,600	1,500	1,700	1,100	1,500
Other engineering	28,800	S	500	2,600	3,800	4,600	4,300	4,400	3,400	5,100
Non-S&E degrees, total	117,100	S	1,000	7,200	8,200	14,900	22,400	20,400	17,400	25,600

[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 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

SOURCE: National Science Foundation/Science Resources Studies Division, 1993 SESTAT (Scientists and Engineers Statistical Data System)