Table B-7. U.S. scientists and engineers, by level and field of highest degree attained and age: 1997

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	12,530,700	318,000	1,378,700	1,381,200	1,671,200	1,835,900	1,861,600	1,447,800	894,000	1,742,200
S&E degree fields, total	9,269,200	315,100	1,243,700	1,079,800	1,197,300	1,284,500	1,251,400	972,300	628,600	1,296,700
Sciences, total	6,977,800	274,100	1,007,300	786,600	845,600	993,700	1,014,100	761,300	468,200	826,800
Computer/math sciences, total	1,136,000	23,400	129,000	187,600	199,100	163,700	146,900	124,700	71,700	90,000
Computer/information sciences	581,500	11,100	75,000	129,600	144,600	97,700	60,700	36,200	17,500	9,100
Mathematical sciences	554,500	12,300	54,000	57,900	54,500	66,000	86,200	88,500	54,200	80,900
Life/related sciences, total	1,475,600	70,300	212,500	143,800	181,300	252,800	210,200	145,500	93,200	166,000
Agricultural/food sciences	260,300	4,900	23,700	21,800	45,800	51,100	33,400	19,800	17,100	42,700
Biological sciences	1,103,800	61,500	174,000	112,800	119,900	179,200	159,200	115,200	69,500	112,700
Environmental life sciences	111,500	3,800	14,900	9,200	15,600	22,500	17,600	10,600	6,600	10,600
Physical/related sciences, total	773,200	19,500	71,400	72,100	96,500	101,500	101,000	78,500	75,300	157,500
Chemistry, except biochemistry	359,500	10,900	34,100	31,200	37,300	43,400	44,500	41,300	40,300	76,600
Earth science, geology and oceanography	174,700	3,900	13,700	16,400	31,200	31,200	24,600	13,000	9,900	30,800
Physics/astronomy	173,000	3,700	16,700	19,300	19,900	17,400	20,700	19,400	20,500	35,300
Other physical sciences	66,000	1,100	6,800	5,200	8,200	9,500	11,100	4,800	4,700	14,700
Social/related sciences, total	3,593,000	160,900	594,400	383,200	368,700	475,700	556,100	412,600	228,000	413,300
Economics	485,600	16,900	74,200	66,700	55,100	58,300	60,800	39,900	34,000	79,800
Political/related sciences	664,400	38,900	138,700	94,300	77,300	78,400	74,300	63,300	35,700	63,400
Psychology	1,339,800	64,400	220,800	133,600	137,200	193,100	216,900	156,000	79,400	138,400
Sociology/anthropology	699,300	25,500	105,400	51,100	60,200	96,100	135,100	95,900	48,800	81,200
Other social sciences	403,900	15,300	55,300	37,500	38,900	49,800	68,900	57,500	30,100	50,600
Engineering, total	2,291,400	40,900	236,400	293,100	351,700	290,800	237,300	211,000	160,400	469,900
Aerospace/related engineering	95,500	1,200	10,500	11,700	14,600	10,100	9,300	9,900	8,500	19,800
Chemical engineering	172,000	5,200	18,200	19,600	26,400	18,000	19,500	16,700	12,200	36,100
Civil/architectural engineering	380,700	6,000	37,200	39,600	53,000	53,800	48,700	37,600	25,800	79,100
Electrical/related engineering	686,500	9,900	73,700	103,800	108,900	96,400	66,100	61,600	48,500	117,600
Industrial engineering	130,600	1,900	14,500	19,200	20,000	14,000	13,800	9,700	8,300	29,100
Mechanical engineering	468,800	10,600	52,500	62,500	72,800	47,900	40,900	41,100	29,200	111,200
Other engineering	357,300	6,100	29,800	36,600	55,900	50,600	39,000	34,500	27,700	77,000
Non-S&E degrees, total	3,261,500	2,900	135,000	301,500	473,900	551,500	610,200	475,500	265,500	445,600
Bachelor's										
All degree fields, total	7,469,000	310,300	1,116,700	913,600	995,900	1,058,300	991,100	699,700	413,800	969,800
S&E degree fields, total	6,906,400	309,900	1,105,300	843,200	894,500	942,000	884,300	630,800	379,800	916,600

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: 1997

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	5,212,100	270,400	914,900	630,500	639,500	735,100	720,000	488,100	273,800	539,800
Computer/math sciences, total	817,000	22,400	109,100	150,500	149,600	114,600	96,200	77,200	40,500	56,800
Computer/information sciences	410,600	10,500	62,300	105,100	108,200	65,400	30,800	18,400	7,400	2,500
Mathematical sciences	406,400	11,900	46,800	45,400	41,400	49,200	65,400	58,900	33,100	54,300
Life/related sciences, total	1,090,600	69,500	196,500	109,600	132,000	192,700	144,600	89,200	50,600	106,000
Agricultural/food sciences	208,600	4,900	21,200	16,800	40,100	41,400	23,800	14,300	12,100	34,000
Biological sciences	796,400	60,800	161,300	86,000	80,400	134,300	107,900	67,100	34,600	64,100
Environmental life sciences	85,600	3,800	14,000	6,800	11,500	17,000	12,900	7,800	3,900	7,900
Physical/related sciences, total	489,000	19,100	60,300	44,800	60,900	64,400	61,400	41,800	37,200	99,100
Chemistry, except biochemistry	239,200	10,700	29,700	20,300	22,800	27,500	28,300	26,100	22,200	51,800
Earth science, geology and oceanography	114,400	3,800	11,300	11,200	22,500	21,600	13,900	6,500	3,600	20,000
Physics/astronomy	86,100	3,700	12,800	9,700	9,600	8,300	10,300	6,300	8,700	16,800
Other physical sciences	49,300	1,100	6,500	3,700	6,000	6,900	9,000	2,900	2,700	10,600
Social/related sciences, total	2,815,500	159,400	549,000	325,600	296,900	363,400	417,800	279,900	145,500	278,000
Economics	408,200	16,600	70,500	59,300	45,200	48,800	47,600	30,500	26,700	63,000
Political/related sciences	563,300	38,600	129,700	84,900	66,400	63,900	60,100	48,600	28,100	43,000
Psychology	910,900	64,100	196,500	105,500	99,000	126,600	136,600	77,300	34,000	71,200
Sociology/anthropology	623,000	25,100	102,100	46,400	53,800	84,800	121,200	82,800	38,500	68,200
Other social sciences	310,100	15,100	50,300	29,400	32,600	39,200	52,200	40,700	18,100	32,600
Engineering, total	1,694,300	39,500	190,400	212,700	255,100	206,800	164,300	142,700	106,000	376,800
Aerospace/related engineering	69,000	1,200	8,000	9,000	10,600	7,800	6,500	6,300	5,400	14,100
Chemical engineering	128,100	5,200	16,000	15,100	20,000	13,100	13,800	11,000	7,600	26,400
Civil/architectural engineering	293,500	5,700	31,200	31,100	40,100	40,500	36,200	25,900	17,100	65,800
Electrical/related engineering	496,100	9,400	57,600	72,100	74,200	68,900	46,400	41,900	33,300	92,300
Industrial engineering	101,700	1,900	12,000	14,900	15,100	10,000	9,800	6,900	6,200	24,900
Mechanical engineering	381,700	10,200	44,500	49,800	58,500	36,900	30,300	32,600	23,600	95,200
Other engineering	224,200	5,900	21,200	20,700	36,500	29,700	21,200	18,100	12,900	58,200
Non-S&E degrees, total	562,600	300	11,300	70,400	101,400	116,300	106,700	69,000	34,000	53,200
Master's										
All degree fields, total	3,316,800	7,500	198,700	312,500	428,900	493,100	559,700	506,800	311,900	497,700
S&E degree fields, total	1,698,100	5,100	128,300	180,400	216,300	245,500	263,600	238,300	163,000	257,600
Sciences, total	1,209,600	3,700	84,900	112,000	137,600	176,600	202,900	184,200	123,500	184,300

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: 1997

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	278,900	1,000	18,900	33,000	43,800	43,500	44,300	40,700	25,800	27,800
Computer/information sciences	160,800	600	12,500	22,900	33,800	30,200	27,600	16,800	9,900	6,500
Mathematical sciences	118,100	400	6,500	10,100	10,100	13,200	16,800	23,900	15,900	21,200
Life/related sciences, total	197,000	800	13,000	18,800	25,100	28,500	33,900	29,200	21,300	26,500
Agricultural/food sciences	31,900	S	2,400	3,800	3,300	5,900	6,300	3,400	2,200	4,600
Biological sciences	144,700	700	9,900	12,700	18,300	18,000	23,900	24,100	17,000	20,000
Environmental life sciences	20,400	S	800	2,300	3,500	4,500	3,600	1,700	2,000	1,900
Physical/related sciences, total	142,700	400	9,200	13,700	16,600	19,100	21,600	16,100	17,600	28,300
Chemistry, except biochemistry	46,200	200	3,200	3,800	4,500	6,300	6,900	5,900	7,200	8,300
Earth science, geology and oceanography	41,700	100	2,300	4,100	6,100	7,100	8,000	2,900	4,000	7,100
Physics/astronomy	40,000	100	3,400	4,400	4,400	3,500	4,900	5,800	4,500	9,000
Other physical sciences	14,800	S	300	1,400	1,700	2,200	1,800	1,600	1,900	3,900
Social/related sciences, total	591,100	1,500	43,700	46,500	52,000	85,600	103,000	98,300	58,800	101,700
Economics	52,800	300	3,400	5,700	7,000	6,400	9,100	5,400	4,000	11,600
Political/related sciences	82,700	300	9,000	8,400	9,400	12,300	11,500	11,100	4,300	16,400
Psychology	328,800	300	23,100	21,500	26,800	49,800	60,800	59,600	35,500	51,300
Sociology/anthropology	50,200	400	3,200	3,700	4,200	8,300	8,300	8,200	6,000	7,800
Other social sciences	76,600	200	5,000	7,100	4,600	8,700	13,200	14,000	9,100	14,700
Engineering, total	488,500	1,500	43,300	68,400	78,700	68,900	60,800	54,100	39,500	73,300
Aerospace/related engineering	22,000	100	2,300	2,100	3,300	2,100	2,200	2,900	2,400	4,600
Chemical engineering	28,700	100	1,900	2,900	3,800	2,900	4,300	3,800	2,400	6,700
Civil/architectural engineering	77,200	200	5,900	7,700	11,400	11,800	11,500	10,000	7,100	11,700
Electrical/related engineering	161,500	500	15,100	27,900	29,700	23,100	16,900	16,000	11,800	20,600
Industrial engineering	25,400	S	2,600	3,800	4,000	3,500	3,600	2,500	1,600	3,800
Mechanical engineering	74,100	300	7,800	11,200	12,000	8,900	8,900	6,900	4,300	13,800
Other engineering	99,500	200	7,900	12,900	14,500	16,500	13,300	12,000	10,000	12,300
Non-S&E degrees, total	1,618,700	2,400	70,400	132,100	212,700	247,600	296,100	268,500	148,900	240,100
Doctorate										
All degree fields, total	790,500	S	10,500	60,300	97,200	107,200	121,100	127,300	109,800	157,000
S&E degree fields, total	654,900	S	9,600	55,000	85,000	95,500	101,800	101,300	85,500	121,100
Sciences, total	546,400	S	7,000	43,000	67,100	80,500	89,700	87,000	70,700	101,400

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: 1997

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	39,900	S	1,000	4,000	5,600	5,600	6,100	6,700	5,400	5,500
Computer/information sciences	9,900	S	300	1,600	2,600	2,100	2,100	900	200	S
Mathematical sciences	30,000	S	700	2,400	3,000	3,500	4,000	5,800	5,200	5,500
Life/related sciences, total	186,500	S	2,500	14,600	24,000	31,600	31,700	27,200	21,400	33,600
Agricultural/food sciences	19,600	S	S	1,000	2,300	3,900	3,300	2,100	2,800	4,200
Biological sciences	161,700	S	2,400	13,400	21,200	26,800	27,400	24,100	17,900	28,500
Environmental life sciences	5,100	S	S	100	500	1,000	1,000	1,000	700	900
Physical/related sciences, total	140,800	S	1,800	13,200	19,000	17,900	18,000	20,300	20,500	30,000
Chemistry, except biochemistry	74,000	S	1,200	7,100	10,000	9,500	9,300	9,400	10,900	16,500
Earth science, geology and oceanography	18,400	S	100	900	2,600	2,400	2,800	3,600	2,300	3,800
Physics/astronomy	46,500	S	500	5,100	5,900	5,600	5,600	7,100	7,300	9,500
Other physical sciences	2,000	S	S	100	500	300	300	400	100	200
Social/related sciences, total	179,200	S	1,700	11,200	18,500	25,300	33,900	32,800	23,400	32,400
Economics	24,700	S	400	1,700	2,900	3,100	4,100	3,900	3,300	5,200
Political/related sciences	18,400	S	100	1,000	1,500	2,200	2,700	3,600	3,300	4,000
Psychology	92,900	S	1,200	6,600	10,100	15,200	18,100	17,600	9,600	14,600
Sociology/anthropology	26,100	S	100	900	2,200	3,000	5,500	4,900	4,300	5,200
Other social sciences	17,200	S	S	1,000	1,700	1,900	3,500	2,800	2,900	3,300
Engineering, total	108,500	S	2,600	12,000	17,900	15,000	12,200	14,200	14,800	19,700
Aerospace/related engineering	4,500	S	200	600	700	200	600	700	700	1,100
Chemical engineering	15,200	S	300	1,700	2,600	2,000	1,400	1,900	2,300	3,000
Civil/architectural engineering	10,000	S	100	800	1,600	1,400	1,000	1,700	1,600	1,600
Electrical/related engineering	28,900	S	1,000	3,800	5,000	4,400	2,800	3,800	3,400	4,700
Industrial engineering	3,500	S	S	600	800	500	300	300	600	400
Mechanical engineering	12,900	S	200	1,500	2,300	2,100	1,700	1,600	1,300	2,200
Other engineering	33,500	S	800	3,100	4,900	4,400	4,500	4,400	4,800	6,600
Non-S&E degrees, total	135,600	S	900	5,300	12,200	11,800	19,200	26,100	24,300	35,800

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

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