Appendix table 3-48.
Individuals in the labor force with S&E highest degrees, by degree level, tenure status at four-year educational institutions, field of highest degree, and age: 1999

Field of degree	S&Es, total	Age (years)									
		Less than 25	25–29	30–34	35–39	40–44	45–49	50–54	55–59	60–64	65 or more
All degree levels											
All S&E	8,131,400	277,100	1,142,100	998,000	1,076,100	1,171,400	1,210,700	1,045,800	632,700	330,400	247,100
Engineering	1,967,100	39,000	221,700	254,800	327,200	323,800	235,900	224,300	151,000	105,300	84,200
Aerospace engineering	77,800	1,100	7,500	10,300	12,100	13,400	8,100	9,300	7,100	5,100	3,700
Chemical engineering	150,400	5,300	22,600	17,700	23,700	25,500	14,700	19,200	11,200	5,000	5,400
Civil engineering	332,600	6,500	38,000	34,400	44,500	56,800	46,600	43,200	24,600	20,400	17,500
Electrical engineering	598,100	10,100	63,800	90,000	107,700	100,200	72,500	61,500	44,100	28,400	19,900
Industrial engineering	107,400	1,600	12,600	15,800	19,400	17,900	9,600	12,200	8,700	4,600	5,100
Mechanical engineering	391,500	8,800	48,000	54,100	70,900	56,700	41,300	40,000	28,400	25,500	17,900
Other engineering	309,200	5,400	29,100	32,500	49,000	53,300	43,100	39,000	27,000	16,200	14,600
Life sciences	1,311,700	57,500	197,800	139,400	155,600	209,100	216,200	163,500	100,200	43,300	29,200
Agriculture	232,200	4,300	24,900	21,100	36,200	46,400	39,300	25,100	14,400	11,900	8,600
Biological sciences	975,200	47,900	156,800	106,900	108,200	142,500	158,800	126,700	79,700	28,000	19,700
Health/medical	104,400	5,200	16,100	11,500	11,200	20,200	18,200	11,600	6,100	3,400	900
Computer/math sciences	1,058,900	24,100	115,600	155,600	195,100	165,100	148,400	133,200	75,100	33,700	13,100
Computer sciences	593,700	13,800	68,300	105,200	146,100	112,400	76,900	44,800	17,800	7,500	S
Mathematical sciences	465,200	10,300	47,300	50,400	49,000	52,800	71,500	88,400	57,300	26,200	12,200
Physical sciences	635,300	13,900	65,400	60,300	84,900	100,300	93,300	77,000	67,400	41,700	31,100
Chemistry	282,900	7,100	30,800	28,300	32,900	38,500	40,100	37,000	34,300	21,100	12,800
Geosciences	155,600	3,300	16,300	11,100	28,400	33,300	25,600	13,300	10,100	6,900	7,200
Physics/astronomy	147,000	3,200	13,600	16,400	18,000	19,600	17,500	20,500	19,100	11,300	7,900
Other physical sciences	49,900	300	4,700	4,500	5,600	8,900	10,100	6,100	4,000	2,400	3,300
Social sciences	3,157,800	142,700	541,700	387,900	312,800	373,100	517,000	447,800	239,000	106,400	89,400
Economics	414,100	16,400	56,100	66,400	50,400	52,200	54,600	48,800	33,000	18,300	18,000
Political sciences	580,100	31,400	111,700	89,900	75,100	60,400	81,500	63,800	34,600	18,600	12,800
Psychology	1,195,400	56,300	201,200	135,400	104,000	152,800	210,200	178,000	83,900	40,600	33,100
Sociology/anthropology	605,900	24,300	110,700	58,000	46,100	70,700	111,700	100,300	51,700	18,400	13,900
Other social sciences	362,300	14,300	62,000	38,100	37,200	36,900	59,000	56,900	35,700	10,600	11,500

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

Appendix table 3-48.
Individuals in the labor force with S&E highest degrees, by degree level, tenure status at four-year educational institutions, field of highest degree, and age: 1999

Field of degree	S&Es, total	Age (years)									
		Less than 25	25–29	30–34	35–39	40–44	45–49	50–54	55–59	60–64	65 or more
Bachelor's											
All S&E	5,982,400	273,600	1,013,200	767,000	795,100	847,800	861,600	694,700	368,400	197,400	163,500
Engineering	1,400,400	37,700	179,800	175,100	229,200	231,800	162,800	155,100	93,400	70,700	64,800
Aerospace engineering	54,400	1,000	5,700	7,300	9,000	10,100	5,400	7,200	3,800	2,500	2,300
Chemical engineering	113,600	5,300	20,000	13,500	17,500	20,200	9,500	13,900	6,800	3,000	3,900
Civil engineering	248,300	6,300	32,000	25,800	33,300	43,100	34,100	31,600	13,700	14,100	14,300
Electrical engineering	416,000	9,700	50,000	59,600	72,000	69,600	51,300	41,900	28,500	19,300	14,100
Industrial engineering	80,400	1,600	10,800	10,500	14,900	12,700	6,400	9,800	6,300	3,800	3,600
Mechanical engineering	308,600	8,800	40,200	41,000	55,100	44,500	31,700	31,100	22,100	18,900	15,200
Other engineering	179,100	5,100	21,000	17,500	27,400	31,600	24,400	19,600	12,100	9,000	11,400
Life sciences	966,000	56,800	185,300	106,700	109,400	152,700	154,400	107,400	52,800	22,900	17,600
Agriculture	183,200	4,300	23,100	15,800	30,000	37,600	29,300	17,500	10,800	8,400	6,400
Biological sciences	702,200	47,200	147,300	82,000	72,100	99,600	111,100	81,500	38,800	12,000	10,600
Health/medical	80,600	5,200	15,000	8,900	7,300	15,600	14,100	8,400	3,200	2,500	S
Computer/math sciences	751,800	23,600	94,800	119,800	149,800	113,000	100,500	84,800	41,000	17,200	7,100
Computer sciences	418,400	13,600	54,700	80,700	114,300	75,100	48,100	21,900	7,700	2,300	S
Mathematical sciences	333,300	10,000	40,100	39,100	35,500	37,900	52,400	62,900	33,300	15,000	7,100
Physical sciences	390,500	13,700	55,300	39,200	51,700	61,900	56,000	41,500	30,800	23,900	16,500
Chemistry	179,900	7,000	25,900	19,200	20,000	22,800	24,200	23,000	18,000	12,600	7,200
Geosciences	103,700	3,300	13,600	7,600	20,300	23,900	15,400	6,800	4,200	4,600	3,900
Physics/astronomy	69,100	3,200	11,200	8,300	8,000	9,000	8,300	7,100	6,700	4,900	2,400
Other physical sciences	37,800	300	4,500	4,100	3,500	6,300	8,000	4,600	1,900	S	3,000
Social sciences	2,473,100	141,800	498,000	326,200	254,300	288,300	387,900	305,900	150,400	62,600	57,500
Economics	346,900	16,300	52,300	59,300	44,400	42,900	44,100	35,800	25,600	11,500	14,800
Political sciences	494,100	31,100	104,000	77,900	65,000	51,400	67,700	48,800	24,900	14,400	8,800
Psychology	817,200	55,900	180,400	106,600	74,600	103,000	132,900	91,400	38,400	17,300	16,600
Sociology/anthropology	537,600	24,300	105,000	52,500	40,800	62,100	98,700	89,000	40,700	13,700	10,800
Other social sciences	277,300	14,200	56,400	29,900	29,500	28,900	44,500	40,900	20,900	5,600	6,500

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

Appendix table 3-48.
Individuals in the labor force with S&E highest degrees, by degree level, tenure status at four-year educational institutions, field of highest degree, and age: 1999

Field of degree	S&Es, total	Age (years)									
		Less than 25	25–29	30–34	35–39	40–44	45–49	50–54	55–59	60–64	65 or more
Master's											
All S&E	1,517,400	3,500	118,300	176,200	195,600	225,200	248,000	247,300	171,900	82,100	49,300
Engineering	459,200	1,300	39,300	66,100	79,400	74,900	60,100	56,100	42,900	24,800	14,300
Aerospace engineering	18,400	100	1,600	2,200	2,500	2,500	2,300	1,700	2,700	1,700	1,000
Chemical engineering	22,800	S	2,200	2,400	3,800	2,800	4,000	3,700	2,200	900	900
Civil engineering	74,200	S	5,800	8,000	9,700	12,400	11,300	10,000	9,000	5,200	2,500
Electrical engineering	153,400	400	13,000	26,400	30,200	26,100	17,700	16,200	12,100	6,500	4,700
Industrial engineering	23,700	S	1,800	4,800	4,000	4,600	2,800	2,200	1,900	S	S
Mechanical engineering	69,200	S	7,400	11,100	13,000	9,600	8,000	7,200	4,900	5,700	2,200
Other engineering	97,400	300	7,400	11,200	16,200	17,000	14,000	15,100	10,200	4,400	1,700
Life sciences	166,900	700	10,000	16,800	21,700	26,300	29,900	27,400	22,500	8,700	2,800
Agriculture	30,700	S	1,800	3,900	3,700	5,400	6,200	5,100	1,200	2,200	1,300
Biological sciences	117,900	700	7,000	10,700	14,700	17,200	20,700	20,200	19,500	5,800	1,300
Health/medical	18,300	S	1,100	2,100	3,400	3,700	3,100	2,100	1,900	S	S
Computer/math sciences	266,400	500	19,200	32,100	39,200	45,500	41,600	42,000	27,900	13,600	4,700
Computer sciences	163,200	S	13,400	23,200	29,000	34,200	26,200	21,300	9,600	5,300	S
Mathematical sciences	103,200	300	5,900	9,000	10,200	11,300	15,400	20,800	18,200	8,300	3,800
Physical sciences	115,300	S	7,900	10,600	14,000	18,400	19,500	16,000	17,300	5,200	6,300
Chemistry	38,000	S	3,400	3,700	3,200	5,300	6,500	5,300	6,600	2,300	1,600
Geosciences	34,600	S	2,600	2,700	5,600	6,800	7,600	2,900	3,500	600	2,200
Physics/astronomy	32,600	S	1,700	3,800	3,500	4,100	3,600	6,400	5,400	1,800	2,200
Other physical sciences	10,100	S	200	300	1,700	2,200	1,800	1,400	1,800	S	S
Social sciences	509,700	900	41,900	50,600	41,200	60,100	96,900	105,800	61,300	29,800	21,200
Economics	44,400	S	3,700	5,100	3,600	5,900	7,200	8,700	3,700	4,800	1,700
Political sciences	69,100	300	7,600	10,800	8,300	7,100	11,200	11,800	6,700	2,700	2,500
Psychology	281,800	S	19,300	22,400	19,800	35,600	58,400	65,900	32,700	16,200	11,100
Sociology/anthropology	44,900	S	5,700	4,600	3,400	5,700	8,400	6,400	6,400	2,600	S
Other social sciences	69,500	S	5,600	7,800	6,200	5,800	11,700	13,000	11,700	3,400	4,200

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

Appendix table 3-48.
Individuals in the labor force with S&E highest degrees, by degree level, tenure status at four-year educational institutions, field of highest degree, and age: 1999

Field of degree	S&Es, total	Age (years)									
		Less than 25	25–29	30–34	35–39	40–44	45–49	50–54	55–59	60–64	65 or more
Doctorate											
All S&E	623,400	S	10,100	54,200	85,000	96,900	99,900	101,400	91,300	50,500	34,200
Engineering	107,400	S	2,600	13,600	18,600	17,100	13,000	13,200	14,700	9,800	5,000
Aerospace engineering	4,900	S	200	800	600	700	400	400	600	800	400
Chemical engineering	14,000	S	400	1,800	2,400	2,500	1,300	1,600	2,200	1,100	600
Civil engineering	10,100	S	200	700	1,500	1,300	1,200	1,600	1,900	1,100	700
Electrical engineering	28,700	S	800	4,000	5,500	4,500	3,400	3,300	3,500	2,600	1,100
Industrial engineering	3,300	S	S	400	500	700	400	200	500	400	200
Mechanical engineering	13,700	S	300	2,000	2,700	2,600	1,600	1,800	1,300	900	500
Other engineering	32,700	S	700	3,900	5,400	4,700	4,700	4,300	4,700	2,900	1,400
Life sciences	178,400	S	2,500	15,700	24,500	29,800	31,900	28,700	24,900	11,700	8,800
Agriculture	18,300	S	S	1,400	2,500	3,400	3,900	2,500	2,400	1,300	800
Biological sciences	155,000	S	2,500	14,100	21,400	25,600	27,000	25,000	21,500	10,200	7,800
Health/medical	5,100	S	S	300	500	700	1,000	1,100	1,000	200	200
Computer/math sciences	40,800	S	1,500	3,700	6,000	6,600	6,200	6,300	6,200	2,900	1,300
Computer sciences	12,100	S	200	1,400	2,800	3,100	2,600	1,600	400	S	S
Mathematical sciences	28,700	S	1,300	2,400	3,200	3,600	3,700	4,700	5,800	2,900	1,200
Physical sciences	128,500	S	2,300	10,300	18,900	20,000	17,800	19,000	19,300	12,600	8,300
Chemistry	65,000	S	1,500	5,300	9,700	10,500	9,400	8,800	9,700	6,200	4,000
Geosciences	17,000	S	100	700	2,300	2,700	2,600	3,600	2,300	1,700	1,000
Physics/astronomy	44,500	S	600	4,000	6,500	6,500	5,500	6,400	7,000	4,600	3,400
Other physical sciences	2,000	S	S	200	400	400	300	200	300	S	S
Social sciences	168,300	S	1,200	10,800	17,000	23,500	31,000	34,200	26,300	13,500	10,800
Economics	22,800	S	100	2,000	2,400	3,500	3,300	4,300	3,700	1,900	1,600
Political sciences	16,800	S	S	1,200	1,900	1,900	2,600	3,200	3,000	1,400	1,600
Psychology	89,700	S	1,000	6,200	9,300	13,100	17,700	18,700	11,800	6,600	5,400
Sociology/anthropology	23,400	S	S	1,000	1,900	2,900	4,500	5,000	4,600	2,100	1,400
Other social sciences	15,500	S	S	500	1,500	2,100	2,900	3,000	3,200	1,500	800

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

Appendix table 3-48.
Individuals in the labor force with S&E highest degrees, by degree level, tenure status at four-year educational institutions, field of highest degree, and age: 1999

Field of degree	S&Es, total	Age (years)									
		Less than 25	25–29	30–34	35–39	40–44	45–49	50–54	55–59	60–64	65 or more
Tenured or tenure-track Ph.D. holders at 4-year educational institutions											
All S&E	160,200	S	500	8,100	18,700	25,100	26,000	26,800	28,500	16,600	9,900
Engineering	19,400	S	S	1,300	2,600	3,400	2,900	2,700	2,700	2,700	1,100
Aerospace engineering	900	S	S	S	100	S	S	S	S	200	S
Chemical engineering	1,600	S	S	100	100	400	200	100	300	300	S
Civil engineering	2,800	S	S	200	400	500	200	500	400	400	200
Electrical engineering	4,900	S	S	200	700	1,000	700	700	500	800	300
Industrial engineering	1,100	S	S	100	100	300	200	S	200	S	S
Mechanical engineering	2,400	S	S	100	500	400	400	400	200	300	S
Other engineering	5,700	S	S	500	700	800	1,100	900	1,000	500	300
Life sciences	48,100	S	S	1,600	5,300	8,400	9,100	8,900	8,200	3,700	2,800
Agriculture	5,100	S	S	200	500	900	1,100	800	900	400	200
Biological sciences	41,800	S	S	1,300	4,700	7,300	7,800	7,900	7,000	3,200	2,500
Health/medical	1,200	S	S	S	100	200	200	200	300	S	S
Computer/math sciences	15,400	S	100	1,000	2,200	2,400	2,300	2,400	2,800	1,500	700
Computer sciences	3,000	S	S	300	800	800	600	300	200	S	S
Mathematical sciences	12,400	S	S	700	1,400	1,600	1,700	2,100	2,600	1,500	700
Physical sciences	23,300	S	100	1,300	2,900	3,800	2,500	3,000	4,400	3,400	1,700
Chemistry	10,500	S	100	900	1,300	1,600	1,100	1,200	2,000	1,500	700
Geosciences	4,300	S	S	100	600	900	700	500	600	600	300
Physics/astronomy	8,200	S	S	300	1,000	1,200	600	1,200	1,800	1,300	700
Other physical sciences	300	S	S	S	S	S	S	S	S	S	S
Social sciences	54,000	S	100	2,900	5,600	7,000	9,100	9,800	10,400	5,500	3,600
Economics	10,400	S	S	500	1,000	1,500	1,700	1,900	2,000	1,000	700
Political sciences	8,500	S	S	500	900	1,100	1,200	1,700	1,500	800	600
Psychology	17,600	S	S	1,100	1,900	2,200	3,100	3,300	3,000	1,600	1,300
Sociology/anthropology	10,700	S	S	500	900	1,400	1,800	1,800	2,400	1,200	700
Other social sciences	6,700	S	S	200	800	800	1,200	1,200	1,400	800	300

S = suppressed for reasons of confidentiality and/or data reliability

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