

Table C-9. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 1997

Level and field of highest degree, and sex	Employed S&Es, total	Sex		Race/ethnicity				
		Male	Female	White	Black	Hispanic	Asian	Other
All degree levels¹								
All degree fields, total	10,585,600	7,037,600	3,548,000	8,877,500	555,600	371,500	745,600	35,400
S&E degree fields, total	7,704,000	5,119,400	2,584,500	6,390,800	395,800	282,800	607,700	26,900
Sciences, total	5,794,700	3,382,800	2,411,900	4,841,800	345,900	212,800	371,800	22,600
Computer/math sciences, total	1,003,300	678,500	324,800	802,200	58,000	29,300	110,700	3,100
Computer/information sciences	543,800	388,700	155,000	410,700	33,700	19,200	78,700	1,400
Mathematical sciences	459,500	289,700	169,800	391,500	24,300	10,100	31,900	1,800
Life/related sciences, total	1,204,700	722,600	482,000	1,022,500	53,600	39,200	85,200	4,100
Agricultural/food sciences	218,700	163,800	54,900	195,600	7,500	5,700	9,200	700
Biological sciences	889,100	487,300	401,800	737,200	44,900	30,700	73,300	3,000
Environmental life sciences	96,900	71,500	25,400	89,800	1,200	2,800	2,700	400
Physical/related sciences, total	619,200	487,400	131,800	521,800	21,700	16,500	57,000	2,100
Chemistry, except biochemistry	275,100	198,000	77,100	217,700	13,600	8,400	34,600	800
Earth science, geology and oceanography	146,900	122,200	24,700	136,200	1,300	3,500	5,300	600
Physics/astronomy	144,100	129,900	14,200	121,400	4,300	2,900	15,000	600
Other physical sciences	53,000	37,200	15,800	46,600	2,500	1,700	2,100	200
Social/related sciences, total	2,967,600	1,494,300	1,473,300	2,495,200	212,600	127,800	118,800	13,200
Economics	402,800	309,600	93,200	340,100	15,700	13,900	32,300	900
Political/related sciences	558,700	357,900	200,700	471,000	37,100	26,000	22,200	2,400
Psychology	1,112,800	425,500	687,300	948,100	78,000	50,000	31,200	5,600
Sociology/anthropology	558,600	228,600	330,000	456,000	56,400	24,000	19,100	3,100
Other social sciences	334,800	172,700	162,100	280,000	25,400	13,900	14,100	1,300
Engineering, total	1,909,200	1,736,600	172,600	1,549,000	49,900	70,000	235,900	4,400
Aerospace/related engineering	77,400	72,200	5,200	69,000	1,100	2,600	4,600	100
Chemical engineering	138,400	115,100	23,300	108,900	4,200	4,800	20,400	200
Civil/architectural engineering	322,300	290,400	31,900	261,600	7,300	14,900	37,600	1,000
Electrical/related engineering	582,100	541,200	40,900	450,400	18,800	20,800	91,200	800
Industrial engineering	105,400	87,100	18,300	84,000	4,600	5,000	11,300	500
Mechanical engineering	386,100	365,000	21,000	323,600	7,700	13,000	40,400	1,400
Other engineering	297,500	265,600	31,900	251,500	6,200	8,900	30,500	300
Non-S&E degrees, total	2,881,700	1,918,200	963,500	2,486,800	159,800	88,700	137,900	8,500
Bachelor's								
All degree fields, total	6,193,700	4,056,500	2,137,200	5,212,700	345,000	237,700	374,900	23,400
S&E degree fields, total	5,683,700	3,709,600	1,974,100	4,771,000	319,500	224,000	348,500	20,700
Sciences, total	4,303,400	2,453,600	1,849,800	3,610,600	279,000	171,600	224,800	17,500
Computer/math sciences, total	721,600	474,600	246,900	590,600	47,700	24,100	56,700	2,600
Computer/information sciences	385,000	269,500	115,500	300,100	29,000	16,500	38,100	1,300
Mathematical sciences	336,600	205,200	131,400	290,500	18,600	7,600	18,500	1,300

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

Table C-9. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 1997

Level and field of highest degree, and sex	Employed S&Es, total	Sex		Race/ethnicity				
		Male	Female	White	Black	Hispanic	Asian	Other
Bachelor's — continued								
Life/related sciences, total	884,500	515,700	368,800	759,300	42,300	30,200	49,800	3,000
Agricultural/food sciences	175,200	130,600	44,600	158,900	6,400	4,200	5,000	600
Biological sciences	634,500	328,900	305,600	529,900	35,500	23,700	43,400	2,100
Environmental life sciences	74,800	56,200	18,500	70,500	400	2,200	1,400	300
Physical/related sciences, total	381,900	292,800	89,100	326,300	16,900	11,700	25,600	1,400
Chemistry, except biochemistry	176,100	121,300	54,800	140,500	11,000	6,400	17,700	500
Earth science, geology and oceanography	96,300	80,700	15,600	90,900	800	2,100	2,100	400
Physics/astronomy	68,800	62,300	6,500	58,800	3,000	1,900	4,700	400
Other physical sciences	40,700	28,600	12,200	36,000	2,100	1,400	1,100	100
Social/related sciences, total	2,315,500	1,170,500	1,145,000	1,934,500	172,100	105,600	92,700	10,600
Economics	337,300	258,800	78,500	288,000	12,700	10,800	24,900	800
Political/related sciences	476,100	302,400	173,700	400,000	32,700	22,700	18,600	2,100
Psychology	750,000	279,800	470,200	627,100	56,000	38,600	24,400	3,900
Sociology/anthropology	496,300	196,900	299,400	403,800	52,600	22,100	15,000	2,800
Other social sciences	255,900	132,600	123,300	215,500	18,000	11,500	9,800	1,000
Engineering, total	1,380,300	1,256,000	124,300	1,160,400	40,500	52,400	123,700	3,200
Aerospace/related engineering	55,200	50,900	4,400	50,100	700	1,800	2,500	100
Chemical engineering	102,100	82,200	19,900	82,600	3,600	3,600	12,100	200
Civil/architectural engineering	243,800	219,800	23,900	204,500	6,100	11,100	21,200	900
Electrical/related engineering	413,200	384,400	28,800	331,000	15,500	15,900	50,400	500
Industrial engineering	79,300	65,800	13,500	66,600	3,700	3,500	5,300	200
Mechanical engineering	308,500	292,000	16,500	267,000	6,200	10,800	23,300	1,100
Other engineering	178,200	160,900	17,300	158,600	4,600	5,700	9,000	300
Non-S&E degrees, total	510,000	346,900	163,100	441,700	25,500	13,800	26,400	2,700
Master's								
All degree fields, total	2,819,800	1,800,500	1,019,300	2,330,500	151,300	88,100	242,000	7,900
S&E degree fields, total	1,431,600	960,000	471,600	1,144,400	63,500	43,600	175,900	4,200
Sciences, total	1,001,000	571,600	429,400	822,800	55,500	28,100	91,300	3,200
Computer/math sciences, total	244,700	172,100	72,500	183,200	9,800	4,400	46,700	500
Computer/information sciences	148,800	110,900	37,900	103,900	4,600	2,500	37,800	100
Mathematical sciences	95,800	61,200	34,600	79,300	5,200	1,900	8,900	400
Life/related sciences, total	156,600	90,500	66,100	130,600	7,600	3,700	13,900	700
Agricultural/food sciences	26,700	19,100	7,600	22,700	700	900	2,200	100
Biological sciences	112,500	60,400	52,100	92,900	6,200	2,300	10,700	500
Environmental life sciences	17,400	11,000	6,300	15,000	700	500	1,100	S
Physical/related sciences, total	114,500	86,300	28,200	96,100	3,200	2,400	12,400	400
Chemistry, except biochemistry	36,500	23,500	13,000	28,400	1,500	600	5,900	S
Earth science, geology and oceanography	34,400	27,000	7,400	30,600	500	1,100	2,000	200
Physics/astronomy	33,200	28,600	4,600	28,100	900	400	3,800	100
Other physical sciences	10,500	7,300	3,200	9,000	300	300	700	100

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

Table C-9. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and race/ethnicity: 1997

Level and field of highest degree, and sex	Employed S&Es, total	Sex		Race/ethnicity				
		Male	Female	White	Black	Hispanic	Asian	Other
Master's — continued								
Social/related sciences, total	485,300	222,700	262,600	412,900	34,900	17,600	18,300	1,600
Economics	44,000	32,700	11,200	34,100	2,400	2,600	4,800	S
Political/related sciences	66,000	42,300	23,800	56,600	3,500	3,000	2,700	200
Psychology	271,500	98,100	173,300	237,400	19,200	8,800	4,800	1,200
Sociology/anthropology	39,500	18,200	21,300	32,300	2,900	1,300	3,000	100
Other social sciences	64,300	31,300	33,000	52,400	6,800	2,000	3,000	100
Engineering, total	430,600	388,400	42,200	321,500	8,000	15,500	84,600	1,000
Aerospace/related engineering	18,200	17,400	800	15,700	300	700	1,400	S
Chemical engineering	23,000	20,300	2,700	16,900	400	1,000	4,700	S
Civil/architectural engineering	69,200	61,800	7,400	50,800	1,000	3,500	13,700	100
Electrical/related engineering	142,700	131,900	10,700	102,200	2,900	4,400	32,900	300
Industrial engineering	22,800	18,700	4,100	15,500	900	1,000	5,100	300
Mechanical engineering	65,800	61,700	4,100	49,000	1,300	2,000	13,200	300
Other engineering	89,100	76,600	12,500	71,400	1,300	2,800	13,600	S
Non-S&E degrees, total	1,388,200	840,500	547,700	1,186,100	87,800	44,500	66,100	3,700
Doctorate								
All degree fields, total	696,000	528,000	168,000	562,200	21,300	19,100	91,100	2,200
S&E degree fields, total	580,300	446,000	134,300	467,400	12,800	15,000	83,100	1,900
Sciences, total	482,000	353,900	128,200	400,400	11,400	12,900	55,500	1,800
Computer/math sciences, total	36,900	31,500	5,300	28,200	500	800	7,300	S
Computer/information sciences	9,700	8,200	1,600	6,500	100	300	2,800	S
Mathematical sciences	27,200	23,400	3,800	21,700	400	500	4,500	S
Life/related sciences, total	162,500	115,400	47,100	131,600	3,700	5,300	21,400	500
Agricultural/food sciences	16,800	14,100	2,700	13,900	300	600	2,000	S
Biological sciences	141,200	97,300	43,900	113,700	3,300	4,700	19,200	400
Environmental life sciences	4,500	4,000	500	4,000	100	100	300	S
Physical/related sciences, total	122,200	107,700	14,500	98,900	1,600	2,400	19,000	400
Chemistry, except biochemistry	62,500	53,200	9,300	48,800	1,100	1,500	10,900	200
Earth science, geology and oceanography	16,100	14,300	1,700	14,400	S	300	1,300	S
Physics/astronomy	41,800	38,700	3,000	34,100	400	600	6,500	100
Other physical sciences	1,800	1,400	400	1,500	S	S	300	S
Social/related sciences, total	160,500	99,200	61,300	141,700	5,600	4,400	7,800	900
Economics	21,500	18,100	3,500	17,900	500	500	2,600	100
Political/related sciences	16,500	13,200	3,300	14,400	900	400	900	100
Psychology	85,000	45,700	39,300	77,500	2,800	2,400	2,000	400
Sociology/anthropology	22,800	13,500	9,300	19,900	900	700	1,100	200
Other social sciences	14,600	8,800	5,900	12,100	500	500	1,400	200

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

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Level and field of highest degree, and sex	Employed S&Es, total	Sex		Race/ethnicity				
		Male	Female	White	Black	Hispanic	Asian	Other
Doctorate — continued								
Engineering, total	98,200	92,100	6,100	66,900	1,400	2,200	27,600	100
Aerospace/related engineering	4,000	4,000	100	3,100	S	100	800	S
Chemical engineering	13,300	12,600	700	9,400	100	200	3,600	S
Civil/architectural engineering	9,400	8,800	600	6,300	200	200	2,700	S
Electrical/related engineering	26,300	24,900	1,400	17,300	400	600	8,000	100
Industrial engineering	3,300	2,600	700	1,900	100	400	900	S
Mechanical engineering	11,800	11,400	400	7,600	200	200	3,800	S
Other engineering	30,100	27,900	2,200	21,300	400	500	7,900	S
Non-S&E degrees, total	115,800	82,000	33,700	94,900	8,500	4,100	8,000	300

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)