

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
All degree levels¹											
All degree fields, total	10,981,600	7,556,000	6,120,700	726,600	708,700	2,022,400	961,500	1,060,900	1,403,300	573,000	830,200
Male	7,171,500	5,273,700	4,461,600	494,100	318,000	967,900	554,400	413,500	929,800	427,600	502,200
Female	3,810,200	2,282,200	1,659,200	232,400	390,600	1,054,500	407,000	647,400	473,400	145,400	328,000
S&E degree fields, total	7,980,100	5,545,400	4,657,400	432,300	455,700	1,379,100	701,700	677,400	1,055,600	450,600	605,000
Male	5,216,100	3,857,000	3,389,800	282,400	184,800	654,200	408,600	245,500	704,900	338,500	366,400
Female	2,764,000	1,688,400	1,267,600	150,000	270,800	724,900	293,100	431,800	350,700	112,100	238,600
Sciences, total	6,043,700	3,945,200	3,167,800	353,400	423,900	1,279,100	621,000	658,200	819,400	319,200	500,200
Male	3,463,400	2,397,900	2,033,900	207,300	156,800	568,600	338,200	230,400	496,800	223,400	273,400
Female	2,580,300	1,547,200	1,133,900	146,100	267,200	710,500	282,700	427,800	322,600	95,800	226,800
Computer/math sciences, total	1,045,800	804,100	732,600	37,000	34,600	164,100	66,600	97,500	77,600	46,600	31,000
Male	707,200	571,500	528,200	23,100	20,300	81,800	42,300	39,500	53,900	34,800	19,000
Female	338,600	232,600	204,400	13,900	14,300	82,300	24,200	58,000	23,700	11,800	11,900
Computer/information sciences	586,500	506,200	472,700	16,800	16,600	40,900	25,100	15,900	39,400	25,300	14,200
Male	424,400	373,200	351,300	11,300	10,700	24,300	16,100	8,200	26,900	18,200	8,700
Female	162,100	132,900	121,500	5,500	5,900	16,700	9,000	7,700	12,600	7,100	5,500
Mathematical sciences	459,300	298,000	259,900	20,100	18,000	123,200	41,500	81,700	38,100	21,400	16,800
Male	282,800	198,300	176,900	11,800	9,600	57,600	26,200	31,300	27,000	16,700	10,300
Female	176,500	99,700	83,000	8,400	8,400	65,600	15,300	50,400	11,200	4,700	6,400
Life/related sciences, total	1,287,700	768,700	603,900	78,400	86,500	345,200	219,700	125,500	173,800	78,800	95,000
Male	753,100	469,800	382,500	54,600	32,700	169,600	117,500	52,100	113,800	54,400	59,400
Female	534,600	298,900	221,400	23,800	53,800	175,600	102,200	73,400	60,000	24,500	35,600
Agricultural/food sciences	230,400	167,800	128,100	33,400	6,300	35,800	23,400	12,500	26,700	13,500	13,300
Male	170,000	129,200	97,200	29,800	2,300	21,100	14,400	6,700	19,700	10,100	9,600
Female	60,300	38,600	30,900	3,700	4,000	14,700	8,900	5,800	7,000	3,400	3,600
Biological sciences	955,300	540,600	426,500	39,600	74,500	295,300	189,400	105,900	119,400	53,700	65,700
Male	511,000	297,800	248,700	21,100	28,000	141,100	98,500	42,600	72,100	35,100	37,000
Female	444,300	242,800	177,800	18,500	46,600	154,200	90,900	63,300	47,300	18,600	28,700

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

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
All degree levels¹ — continued											
Environmental life sciences	102,100	60,300	49,400	5,300	5,700	14,100	7,000	7,100	27,600	11,600	16,000
Male	72,100	42,800	36,600	3,700	2,500	7,400	4,600	2,800	21,900	9,200	12,700
Female	30,000	17,500	12,700	1,600	3,200	6,700	2,400	4,300	5,700	2,500	3,300
Physical/related sciences, total	621,700	414,500	366,100	30,000	18,400	130,900	90,700	40,200	76,300	43,000	33,300
Male	483,400	333,500	296,900	23,600	13,000	89,900	68,900	21,000	60,000	34,700	25,300
Female	138,300	81,000	69,200	6,400	5,400	41,100	21,800	19,200	16,300	8,300	7,900
Chemistry, except biochemistry	276,200	195,100	175,000	11,900	8,300	55,800	41,000	14,800	25,300	12,000	13,200
Male	196,000	145,100	130,800	8,800	5,600	33,400	27,000	6,400	17,500	8,100	9,400
Female	80,200	50,000	44,200	3,100	2,700	22,400	14,000	8,400	7,800	3,900	3,900
Earth science, geology and oceanography	152,800	98,200	86,900	8,700	2,500	27,000	16,600	10,400	27,600	14,500	13,100
Male	124,600	82,100	73,200	6,900	1,900	20,100	13,300	6,800	22,400	11,300	11,000
Female	28,200	16,100	13,700	1,800	600	6,900	3,300	3,600	5,200	3,100	2,100
Physics/astronomy	144,000	90,400	78,900	6,500	5,000	38,400	30,900	7,600	15,200	13,000	2,200
Male	128,800	82,700	72,300	5,900	4,400	32,400	27,100	5,300	13,700	12,100	1,500
Female	15,200	7,700	6,600	600	500	6,000	3,700	2,200	1,500	900	600
Other physical sciences	48,800	30,800	25,200	2,900	2,700	9,700	2,200	7,500	8,200	3,500	4,700
Male	34,000	23,700	20,600	2,000	1,100	3,900	1,400	2,500	6,500	3,100	3,400
Female	14,700	7,200	4,700	900	1,600	5,900	800	5,000	1,700	400	1,300
Social/related sciences, total	3,088,400	1,957,800	1,465,300	208,100	284,400	638,900	243,900	394,900	491,700	150,700	341,000
Male	1,519,600	1,023,100	826,300	106,000	90,800	227,400	109,500	117,800	269,100	99,500	169,600
Female	1,568,800	934,700	639,000	102,100	193,600	411,500	134,400	277,100	222,600	51,200	171,300
Economics	406,500	320,300	267,300	37,800	15,200	43,500	27,800	15,600	42,700	26,000	16,700
Male	307,100	250,800	209,200	31,700	9,900	26,900	20,200	6,600	29,400	18,500	11,000
Female	99,500	69,600	58,200	6,100	5,300	16,600	7,600	9,000	13,300	7,500	5,700
Political/related sciences	567,000	394,200	325,000	34,200	35,000	72,900	34,300	38,600	99,900	44,600	55,300
Male	356,700	247,400	210,300	23,000	14,100	37,700	19,400	18,300	71,600	35,000	36,600
Female	210,300	146,800	114,700	11,200	20,800	35,300	14,900	20,400	28,300	9,600	18,700

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

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
All degree levels¹ — continued											
Psychology	1,166,100	701,000	475,200	84,600	141,200	297,600	95,800	201,800	167,600	37,800	129,800
Male	434,600	277,200	206,700	30,500	39,900	82,600	36,600	46,000	74,800	21,200	53,500
Female	731,500	423,800	268,500	54,100	101,200	214,900	59,200	155,700	92,800	16,600	76,200
Sociology/anthropology	592,700	343,900	250,800	30,100	63,000	126,300	55,100	71,300	122,500	24,700	97,700
Male	244,300	147,400	118,400	13,200	15,900	39,000	20,500	18,500	57,800	12,100	45,700
Female	348,400	196,400	132,400	16,900	47,100	87,300	34,600	52,700	64,700	12,600	52,000
Other social sciences	356,100	198,400	146,900	21,400	30,100	98,600	30,900	67,600	59,100	17,600	41,400
Male	177,000	100,300	81,700	7,600	11,000	41,200	12,800	28,400	35,500	12,700	22,800
Female	179,100	98,100	65,200	13,800	19,100	57,400	18,100	39,300	23,600	4,900	18,600
Engineering, total	1,936,400	1,600,300	1,489,600	78,900	31,700	100,000	80,800	19,200	236,200	131,400	104,800
Male	1,752,700	1,459,100	1,355,900	75,100	28,100	85,500	70,400	15,100	208,100	115,100	93,000
Female	183,700	141,200	133,700	3,800	3,700	14,400	10,400	4,100	28,100	16,300	11,800
Aerospace/related engineering	76,300	59,900	54,900	3,600	1,400	4,800	3,900	900	11,700	10,700	900
Male	71,600	56,100	51,200	3,600	1,400	4,400	3,600	800	11,100	10,100	900
Female	4,800	3,800	3,800	S	S	400	300	100	600	600	S
Chemical engineering	147,700	130,200	126,500	1,700	2,100	6,200	5,800	500	11,200	6,900	4,300
Male	119,800	107,500	104,100	1,500	1,900	4,600	4,500	100	7,800	5,100	2,700
Female	27,800	22,800	22,400	200	200	1,600	1,300	400	3,400	1,800	1,600
Civil/architectural engineering	330,200	230,800	208,000	18,900	3,900	13,100	11,100	2,100	86,300	24,300	62,000
Male	296,900	209,900	188,300	17,800	3,800	10,900	9,500	1,400	76,100	20,600	55,500
Female	33,300	20,900	19,800	1,000	200	2,200	1,600	700	10,100	3,700	6,500
Electrical/related engineering	587,000	507,000	479,900	18,100	9,000	29,900	24,600	5,200	50,100	38,700	11,400
Male	547,200	475,100	449,000	17,800	8,200	26,600	22,000	4,600	45,500	35,200	10,300
Female	39,800	32,000	30,900	300	700	3,300	2,600	600	4,600	3,400	1,100
Industrial engineering	106,200	91,700	80,400	8,500	2,900	6,000	3,000	3,000	8,500	6,700	1,800
Male	85,500	73,300	64,900	7,400	1,000	5,200	2,200	2,900	7,100	5,400	1,800
Female	20,700	18,500	15,500	1,100	1,900	800	800	100	1,400	1,300	100

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Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
All degree levels¹ — continued											
Mechanical engineering	386,000	338,700	319,200	13,900	5,700	14,500	11,800	2,700	32,700	21,100	11,600
Male	363,400	320,500	301,800	13,300	5,500	12,700	10,400	2,300	30,200	19,200	11,000
Female	22,600	18,200	17,400	600	200	1,800	1,400	500	2,500	1,900	600
Other engineering	303,000	241,900	220,700	14,300	6,800	25,400	20,500	4,900	35,700	23,100	12,700
Male	268,300	216,800	196,700	13,800	6,300	21,200	18,100	3,100	30,300	19,500	10,800
Female	34,700	25,000	24,000	500	500	4,200	2,500	1,700	5,400	3,600	1,900
Non-S&E degrees, total	3,001,500	2,010,500	1,463,300	294,200	253,000	643,300	259,800	383,500	347,700	122,400	225,300
Male	1,955,400	1,416,700	1,071,700	211,800	133,200	313,700	145,800	167,900	224,900	89,100	135,800
Female	1,046,100	593,800	391,600	82,500	119,800	329,500	114,000	215,600	122,800	33,300	89,500
Bachelor's											
All degree fields, total	6,350,100	4,694,100	3,982,800	347,000	364,300	806,800	327,100	479,700	849,300	337,700	511,600
Male	4,084,400	3,215,300	2,846,000	231,000	138,300	312,300	149,000	163,300	556,900	249,100	307,800
Female	2,265,700	1,478,800	1,136,900	116,000	226,000	494,500	178,100	316,400	292,400	88,600	203,800
S&E degree fields, total	5,866,100	4,312,700	3,654,300	323,800	334,500	762,800	305,400	457,300	790,700	314,100	476,500
Male	3,758,600	2,945,700	2,603,500	215,700	126,500	293,200	139,600	153,600	519,600	231,500	288,100
Female	2,107,500	1,366,900	1,050,800	108,100	208,000	469,600	165,800	303,700	271,000	82,600	188,400
Sciences, total	4,486,100	3,148,800	2,571,400	262,600	314,800	718,000	275,500	442,400	619,400	225,300	394,100
Male	2,509,900	1,884,500	1,618,300	157,500	108,700	256,500	114,900	141,600	368,800	154,200	214,600
Female	1,976,300	1,264,300	953,100	105,100	206,100	461,400	160,600	300,800	250,600	71,100	179,500
Computer/math sciences, total	742,700	595,500	539,600	29,100	26,800	89,100	23,700	65,400	58,000	32,300	25,700
Male	491,000	415,700	383,000	17,600	15,200	36,500	12,500	24,000	38,700	23,100	15,700
Female	251,700	179,800	156,700	11,500	11,600	52,600	11,200	41,400	19,300	9,300	10,000
Computer/information sciences	413,500	364,000	338,100	13,300	12,600	20,800	11,400	9,400	28,700	17,300	11,400
Male	295,800	265,200	248,600	9,300	7,300	11,400	6,700	4,600	19,300	12,100	7,200
Female	117,700	98,800	89,500	4,000	5,400	9,400	4,600	4,800	9,400	5,200	4,200
Mathematical sciences	329,200	231,500	201,600	15,800	14,200	68,300	12,300	56,000	29,300	15,000	14,300
Male	195,200	150,500	134,400	8,200	7,900	25,200	5,800	19,400	19,500	11,000	8,500
Female	134,000	81,000	67,200	7,500	6,300	43,100	6,500	36,600	9,900	4,000	5,800

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Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
Bachelor's — continued											
Life/related sciences, total	947,000	631,000	501,800	62,600	66,500	190,000	101,700	88,200	126,100	50,200	75,800
Male	538,000	382,400	314,200	44,600	23,600	73,800	42,200	31,600	81,700	35,900	45,800
Female	409,000	248,500	187,600	18,000	42,900	116,100	59,500	56,600	44,400	14,300	30,100
Agricultural/food sciences	182,300	143,100	109,200	29,300	4,600	18,100	9,600	8,500	21,100	10,200	10,900
Male	133,900	109,800	81,700	26,700	1,300	8,700	4,700	4,000	15,400	7,900	7,500
Female	48,400	33,300	27,500	2,500	3,300	9,400	4,900	4,400	5,700	2,300	3,400
Biological sciences	686,000	438,000	351,300	28,600	58,000	163,200	88,600	74,600	84,800	32,500	52,300
Male	347,900	236,900	201,100	14,500	21,300	61,100	35,800	25,300	49,900	21,900	28,000
Female	338,100	201,100	150,200	14,100	36,700	102,100	52,800	49,300	34,900	10,600	24,300
Environmental life sciences	78,700	49,900	41,300	4,800	3,900	8,700	3,500	5,200	20,100	7,500	12,600
Male	56,100	35,700	31,300	3,400	1,000	4,000	1,700	2,300	16,400	6,100	10,300
Female	22,600	14,200	9,900	1,300	2,900	4,700	1,800	2,800	3,700	1,400	2,300
Physical/related sciences, total	380,900	278,700	246,000	20,700	12,000	55,600	32,700	22,900	46,600	21,000	25,600
Male	287,500	219,000	196,100	15,400	7,500	31,900	21,300	10,600	36,600	16,400	20,300
Female	93,300	59,700	49,900	5,300	4,500	23,700	11,400	12,300	10,000	4,700	5,300
Chemistry, except biochemistry	175,100	130,500	116,000	9,300	5,200	26,800	18,500	8,300	17,800	7,200	10,600
Male	117,900	92,600	82,600	6,900	3,100	13,300	10,400	3,000	12,000	4,700	7,400
Female	57,200	37,900	33,400	2,400	2,100	13,500	8,100	5,400	5,700	2,600	3,200
Earth science, geology and oceanography	101,800	72,100	64,500	5,900	1,700	10,900	5,000	5,900	18,800	8,900	10,000
Male	84,000	60,400	54,700	4,400	1,300	7,700	3,600	4,100	15,900	6,900	9,000
Female	17,900	11,700	9,800	1,500	400	3,200	1,400	1,800	2,900	1,900	1,000
Physics/astronomy	66,900	49,800	44,400	2,700	2,700	11,800	8,300	3,500	5,300	3,800	1,500
Male	59,600	45,800	41,300	2,100	2,300	9,100	7,000	2,100	4,700	3,700	1,100
Female	7,300	4,100	3,100	600	400	2,700	1,300	1,400	600	100	400
Other physical sciences	37,000	26,200	21,100	2,800	2,300	6,100	900	5,200	4,700	1,200	3,500
Male	26,100	20,200	17,500	2,000	700	1,900	400	1,500	4,000	1,100	2,900
Female	11,000	6,000	3,500	900	1,600	4,200	500	3,700	800	100	700

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

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
Bachelor's — continued											
Social/related sciences, total	2,415,500	1,643,600	1,284,000	150,100	209,500	383,300	117,400	265,900	388,600	121,700	267,000
Male	1,193,300	867,400	725,000	79,900	62,400	114,200	38,900	75,400	211,700	78,800	132,900
Female	1,222,200	776,200	558,900	70,200	147,100	269,100	78,500	190,500	176,900	42,900	134,100
Economics	340,300	284,900	238,200	34,300	12,400	22,800	10,900	11,900	32,600	20,400	12,200
Male	257,100	223,900	187,300	29,100	7,400	11,300	6,800	4,500	22,000	14,600	7,400
Female	83,200	61,000	50,800	5,300	4,900	11,500	4,100	7,400	10,600	5,900	4,700
Political/related sciences	482,900	350,100	295,600	27,800	26,700	47,800	15,700	32,100	85,000	37,100	47,900
Male	303,000	221,000	190,400	19,200	11,500	22,200	7,300	14,800	59,800	28,700	31,100
Female	179,800	129,100	105,300	8,600	15,200	25,600	8,400	17,200	25,200	8,400	16,800
Psychology	794,500	525,400	387,300	44,700	93,400	154,000	45,500	108,400	115,200	29,000	86,200
Male	286,900	204,500	167,400	14,600	22,400	31,700	12,800	18,800	50,800	15,500	35,200
Female	507,700	320,900	219,900	30,000	71,000	122,300	32,700	89,600	64,400	13,400	51,000
Sociology/anthropology	525,200	319,600	236,000	27,300	56,300	95,100	31,700	63,400	110,500	21,400	89,100
Male	210,800	134,900	109,200	12,200	13,500	24,000	8,200	15,800	51,900	10,300	41,600
Female	314,400	184,700	126,800	15,100	42,800	71,000	23,500	47,600	58,600	11,100	47,500
Other social sciences	272,600	163,600	126,800	16,100	20,700	63,700	13,600	50,100	45,400	13,800	31,600
Male	135,500	83,100	70,700	4,900	7,600	25,100	3,800	21,300	27,200	9,700	17,500
Female	137,200	80,500	56,200	11,200	13,100	38,600	9,800	28,800	18,100	4,000	14,100
Engineering, total	1,380,000	1,163,900	1,082,800	61,300	19,800	44,800	29,900	14,900	171,300	88,900	82,400
Male	1,248,700	1,061,200	985,200	58,200	17,800	36,700	24,700	12,000	150,800	77,300	73,500
Female	131,300	102,700	97,700	3,100	2,000	8,100	5,200	2,900	20,500	11,500	8,900
Aerospace/related engineering	53,600	43,200	40,000	2,700	500	2,300	1,700	600	8,000	7,600	500
Male	49,800	40,100	36,900	2,700	500	2,100	1,600	500	7,600	7,100	500
Female	3,800	3,100	3,100	S	S	200	100	100	500	500	S
Chemical engineering	112,000	100,000	97,600	900	1,500	3,100	2,700	400	9,000	5,300	3,700
Male	88,100	80,600	78,400	700	1,400	1,800	1,800	S	5,800	3,700	2,100
Female	23,900	19,400	19,200	200	100	1,300	900	300	3,200	1,700	1,600

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

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
Bachelor's — continued											
Civil/architectural engineering	247,000	173,700	157,700	14,000	2,100	6,400	5,000	1,500	66,800	17,600	49,200
Male	222,800	158,000	142,700	13,300	2,100	5,100	4,000	1,100	59,600	15,100	44,500
Female	24,100	15,700	15,000	700	S	1,300	900	300	7,100	2,500	4,700
Electrical/related engineering	407,400	356,900	336,800	13,900	6,200	14,000	9,400	4,600	36,500	27,000	9,400
Male	380,700	335,500	315,900	13,700	5,900	12,200	8,000	4,200	33,100	24,400	8,600
Female	26,700	21,400	20,900	200	400	1,800	1,400	400	3,400	2,600	800
Industrial engineering	79,500	70,900	61,500	7,700	1,700	3,100	600	2,500	5,400	4,400	1,000
Male	63,600	56,300	49,300	6,600	400	2,900	400	2,500	4,400	3,400	1,000
Female	15,900	14,600	12,200	1,100	1,300	200	200	S	1,000	1,000	S
Mechanical engineering	304,200	270,700	254,500	12,000	4,200	6,400	4,700	1,700	27,000	16,500	10,600
Male	286,100	256,100	240,500	11,500	4,100	5,200	3,900	1,300	24,900	15,000	9,900
Female	18,000	14,700	14,000	500	100	1,300	800	500	2,100	1,500	600
Other engineering	176,300	148,400	134,700	9,900	3,700	9,500	5,900	3,600	18,500	10,500	8,100
Male	157,500	134,600	121,500	9,600	3,600	7,400	5,000	2,300	15,400	8,600	6,900
Female	18,900	13,700	13,300	300	200	2,100	800	1,200	3,100	1,900	1,200
Non-S&E degrees, total	484,000	381,400	328,600	23,100	29,700	44,000	21,600	22,400	58,600	23,600	35,000
Male	325,900	269,600	242,500	15,300	11,800	19,100	9,400	9,700	37,200	17,600	19,600
Female	158,100	111,900	86,100	7,800	17,900	24,900	12,200	12,700	21,300	6,000	15,400
Master's											
All degree fields, total	2,982,000	1,851,000	1,454,500	159,700	236,700	744,000	226,000	518,000	387,000	153,400	233,600
Male	1,871,200	1,283,100	1,087,100	90,900	105,100	331,100	116,200	214,900	257,100	117,300	139,800
Female	1,110,800	567,900	367,400	68,900	131,600	412,900	109,800	303,100	130,000	36,100	93,800
S&E degree fields, total	1,491,200	954,600	790,600	73,900	90,100	329,600	133,900	195,700	207,000	95,700	111,300
Male	987,800	691,400	607,900	45,100	38,400	155,100	76,400	78,700	141,300	74,500	66,800
Female	503,400	263,200	182,700	28,800	51,600	174,500	57,500	117,000	65,700	21,200	44,500
Sciences, total	1,040,400	585,600	445,100	59,100	81,400	304,500	111,900	192,600	150,200	60,100	90,100
Male	582,000	357,000	294,700	31,000	31,400	133,400	57,200	76,300	91,600	43,100	48,400
Female	458,400	228,600	150,400	28,100	50,000	171,100	54,800	116,300	58,700	17,000	41,700

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

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
Master's — continued											
Computer/math sciences, total	262,600	192,700	178,700	7,100	6,900	52,600	21,400	31,200	17,200	12,300	4,900
Male	181,700	142,000	132,900	4,800	4,300	26,700	11,900	14,800	13,000	10,000	3,000
Female	80,900	50,700	45,900	2,300	2,600	25,900	9,600	16,300	4,200	2,300	1,900
Computer/information sciences	160,900	135,500	128,500	3,300	3,800	15,700	9,300	6,300	9,700	7,100	2,600
Male	118,300	102,300	97,400	1,800	3,200	9,400	5,900	3,400	6,600	5,300	1,300
Female	42,600	33,200	31,200	1,500	500	6,300	3,400	2,900	3,100	1,800	1,300
Mathematical sciences	101,700	57,200	50,200	3,800	3,200	37,000	12,100	24,900	7,500	5,200	2,300
Male	63,400	39,700	35,500	3,100	1,100	17,300	5,900	11,400	6,400	4,700	1,700
Female	38,300	17,500	14,700	800	2,000	19,600	6,200	13,500	1,100	500	600
Life/related sciences, total	164,100	75,400	55,400	9,200	10,800	58,600	27,500	31,100	30,200	15,200	15,000
Male	92,400	41,500	32,300	5,600	3,500	31,500	14,400	17,100	19,400	8,800	10,600
Female	71,700	33,900	23,100	3,500	7,300	27,000	13,100	14,000	10,700	6,400	4,400
Agricultural/food sciences	30,100	17,000	12,500	3,400	1,100	9,200	5,800	3,500	3,800	1,800	1,900
Male	20,900	12,700	10,000	2,300	400	5,400	3,100	2,300	2,800	1,000	1,800
Female	9,100	4,300	2,500	1,100	700	3,800	2,600	1,200	1,000	800	200
Biological sciences	116,200	49,400	35,900	5,300	8,100	45,900	20,100	25,800	20,900	10,600	10,300
Male	60,300	23,000	18,000	3,100	1,800	24,400	9,900	14,500	12,900	5,900	7,000
Female	55,900	26,400	17,900	2,200	6,300	21,500	10,100	11,400	7,900	4,600	3,300
Environmental life sciences	17,900	9,000	7,000	400	1,600	3,400	1,600	1,800	5,500	2,800	2,800
Male	11,200	5,800	4,300	200	1,300	1,700	1,300	400	3,700	1,900	1,900
Female	6,700	3,200	2,600	200	300	1,700	300	1,500	1,800	900	900
Physical/related sciences, total	113,900	69,400	60,800	6,300	2,300	27,800	14,600	13,100	16,700	11,200	5,500
Male	85,400	56,200	48,700	5,600	1,900	17,200	10,200	7,000	11,900	8,700	3,200
Female	28,500	13,200	12,100	700	400	10,500	4,400	6,100	4,800	2,500	2,300
Chemistry, except biochemistry	37,400	24,600	22,200	1,100	1,400	9,400	4,900	4,500	3,400	1,800	1,600
Male	25,000	18,600	16,800	700	1,100	4,300	2,300	2,000	2,000	900	1,100
Female	12,400	6,000	5,300	400	300	5,000	2,600	2,500	1,400	900	400

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

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
Master's — continued											
Earth science, geology and oceanography	34,200	21,400	18,800	2,400	200	7,100	3,500	3,600	5,700	3,100	2,600
Male	26,000	17,500	15,300	2,100	100	4,700	2,800	1,900	3,700	2,200	1,600
Female	8,200	3,900	3,500	300	100	2,400	700	1,700	2,000	900	1,100
Physics/astronomy	32,500	19,600	16,300	2,900	400	8,400	5,600	2,800	4,500	4,300	200
Male	28,100	17,300	14,000	2,800	400	6,800	4,600	2,100	4,000	3,900	100
Female	4,500	2,300	2,200	S	S	1,700	900	700	500	400	100
Other physical sciences	9,800	3,800	3,500	S	300	2,900	700	2,200	3,100	2,000	1,100
Male	6,500	2,800	2,500	S	300	1,500	500	900	2,200	1,700	500
Female	3,400	1,000	1,000	S	S	1,400	200	1,300	900	300	600
Social/related sciences, total	499,800	248,000	150,200	36,500	61,300	165,600	48,400	117,200	86,200	21,400	64,800
Male	222,500	117,300	80,800	14,900	21,500	58,000	20,700	37,300	47,200	15,600	31,600
Female	277,300	130,800	69,400	21,600	39,800	107,600	27,700	79,800	39,000	5,800	33,200
Economics	43,700	28,300	23,800	2,500	2,000	7,800	4,300	3,500	7,600	3,500	4,100
Male	31,100	20,900	17,300	1,700	1,900	4,500	2,600	1,900	5,700	2,500	3,200
Female	12,600	7,300	6,500	800	100	3,300	1,700	1,600	1,900	1,100	900
Political/related sciences	67,400	40,700	27,700	5,600	7,500	13,500	7,700	5,800	13,200	6,600	6,600
Male	40,600	23,800	18,600	3,200	2,000	6,400	3,600	2,800	10,400	5,600	4,800
Female	26,800	16,900	9,000	2,400	5,500	7,100	4,100	3,000	2,800	1,000	1,800
Psychology	276,100	128,900	68,300	22,200	38,300	104,600	19,800	84,800	42,600	5,600	37,000
Male	98,300	47,900	27,700	7,200	13,000	31,600	7,700	23,900	18,700	3,600	15,100
Female	177,800	81,000	40,600	15,100	25,300	73,000	12,100	60,900	23,900	2,000	21,900
Sociology/anthropology	44,400	19,400	12,600	1,800	5,000	15,000	8,500	6,500	10,000	2,300	7,700
Male	20,200	9,900	7,800	400	1,700	5,600	3,600	2,000	4,700	1,200	3,500
Female	24,200	9,500	4,900	1,400	3,300	9,400	4,800	4,500	5,300	1,100	4,200
Other social sciences	68,100	30,700	17,800	4,400	8,500	24,700	8,100	16,600	12,700	3,400	9,400
Male	32,300	14,700	9,400	2,400	2,800	9,900	3,200	6,700	7,700	2,700	5,000
Female	35,900	16,000	8,300	2,000	5,700	14,900	4,900	9,900	5,000	600	4,400

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

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
Master's — continued											
Engineering, total	450,800	369,000	345,500	14,800	8,700	25,100	21,900	3,100	56,700	35,600	21,100
Male	405,800	334,400	313,200	14,100	7,100	21,700	19,200	2,400	49,700	31,400	18,300
Female	45,000	34,600	32,300	700	1,600	3,400	2,700	700	7,000	4,300	2,800
Aerospace/related engineering	17,800	13,700	12,400	600	700	1,100	900	200	3,000	2,500	400
Male	17,100	13,200	11,800	600	700	900	700	200	3,000	2,500	400
Female	800	600	600	S	S	200	200	S	S	S	S
Chemical engineering	22,000	19,800	19,100	400	300	700	600	S	1,600	1,000	600
Male	19,100	17,100	16,600	400	100	500	500	S	1,400	900	500
Female	2,900	2,600	2,500	S	100	100	100	S	200	100	S
Civil/architectural engineering	73,300	52,300	46,300	4,500	1,400	3,000	2,700	300	18,100	5,800	12,200
Male	65,000	47,300	41,800	4,200	1,300	2,600	2,400	200	15,100	4,700	10,500
Female	8,400	5,000	4,600	300	100	400	300	100	2,900	1,200	1,800
Electrical/related engineering	151,300	130,700	125,200	3,400	2,000	8,600	8,100	400	12,100	10,200	1,900
Male	139,900	121,100	116,200	3,300	1,600	7,600	7,400	200	11,100	9,500	1,600
Female	11,500	9,500	9,000	100	400	900	700	200	1,000	700	300
Industrial engineering	23,500	19,100	17,200	700	1,200	1,500	1,100	400	2,900	2,100	800
Male	19,200	15,400	14,000	700	600	1,200	800	400	2,600	1,900	800
Female	4,300	3,700	3,200	S	600	300	300	S	300	300	S
Mechanical engineering	68,300	59,200	56,700	1,500	900	4,000	3,100	900	5,100	4,000	1,000
Male	64,100	55,800	53,500	1,400	800	3,600	2,700	900	4,700	3,600	1,000
Female	4,200	3,400	3,200	100	100	400	400	S	400	400	S
Other engineering	94,600	74,300	68,500	3,600	2,200	6,200	5,300	900	14,100	9,900	4,200
Male	81,600	64,500	59,200	3,400	1,900	5,100	4,600	500	11,900	8,400	3,500
Female	13,000	9,800	9,300	200	300	1,100	700	400	2,200	1,600	600
Non-S&E degrees, total	1,490,800	896,400	663,900	85,800	146,700	414,400	92,100	322,300	180,000	57,700	122,300
Male	883,400	591,700	479,200	45,800	66,700	176,000	39,800	136,200	115,800	42,800	73,000
Female	607,300	304,700	184,700	40,000	80,000	238,400	52,300	186,100	64,200	14,900	49,400

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

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
Doctorate											
All degree fields, total	736,700	322,000	234,700	44,700	42,600	349,100	309,400	39,700	65,600	43,100	22,500
Male	552,200	257,300	196,400	30,500	30,500	244,200	221,700	22,500	50,700	34,200	16,500
Female	184,500	64,700	38,300	14,300	12,100	104,900	87,600	17,300	14,900	8,900	6,000
S&E degree fields, total	614,600	274,700	211,300	33,600	29,900	283,000	261,200	21,800	56,800	40,100	16,700
Male	466,400	218,400	177,500	21,000	19,900	204,700	191,900	12,800	43,400	31,900	11,500
Female	148,100	56,400	33,800	12,600	10,000	78,300	69,300	9,000	13,400	8,200	5,200
Sciences, total	509,000	207,300	150,000	30,700	26,700	253,000	232,300	20,700	48,700	33,200	15,400
Male	368,200	154,900	120,000	18,200	16,700	177,500	165,500	12,000	35,800	25,500	10,300
Female	140,800	52,500	30,000	12,500	10,000	75,400	66,800	8,600	12,900	7,700	5,100
Computer/math sciences, total	40,600	15,800	14,200	800	800	22,400	21,500	900	2,300	2,000	400
Male	34,500	13,800	12,300	700	800	18,600	18,000	700	2,100	1,800	400
Female	6,100	2,100	1,900	100	100	3,800	3,500	300	200	200	S
Computer/information sciences	12,100	6,600	6,100	300	200	4,500	4,400	100	1,000	800	200
Male	10,200	5,700	5,300	200	200	3,600	3,500	100	900	700	200
Female	1,800	900	800	100	S	900	900	S	S	S	S
Mathematical sciences	28,500	9,200	8,100	500	600	17,900	17,100	800	1,300	1,200	200
Male	24,300	8,000	7,000	500	500	15,100	14,500	600	1,200	1,000	200
Female	4,200	1,200	1,100	100	100	2,900	2,600	300	200	200	S
Life/related sciences, total	176,200	62,400	46,600	6,500	9,200	96,600	90,500	6,100	17,200	13,100	4,100
Male	122,300	45,900	36,000	4,300	5,600	64,100	60,800	3,300	12,200	9,300	3,000
Female	53,900	16,500	10,600	2,200	3,600	32,500	29,600	2,800	5,000	3,800	1,200
Agricultural/food sciences	18,100	7,700	6,300	800	600	8,500	8,000	600	1,900	1,400	400
Male	15,200	6,700	5,400	700	600	7,000	6,600	400	1,600	1,100	400
Female	2,800	1,000	900	100	100	1,500	1,400	200	300	300	S
Biological sciences	153,100	53,300	39,200	5,700	8,400	86,100	80,700	5,400	13,700	10,600	3,100
Male	102,700	37,900	29,500	3,500	4,800	55,500	52,700	2,800	9,300	7,300	2,000
Female	50,400	15,300	9,600	2,100	3,600	30,600	28,000	2,600	4,400	3,400	1,100

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

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
Doctorate — continued											
Environmental life sciences	5,000	1,400	1,100	100	200	2,000	1,900	200	1,600	1,000	600
Male	4,400	1,300	1,000	100	200	1,700	1,600	100	1,400	800	500
Female	700	100	100	S	S	300	300	100	200	200	100
Physical/related sciences, total	125,900	65,700	58,600	3,000	4,100	47,500	43,300	4,200	12,700	10,600	2,200
Male	109,400	57,600	51,400	2,700	3,600	40,600	37,200	3,400	11,200	9,400	1,800
Female	16,500	8,100	7,200	300	600	6,900	6,100	800	1,500	1,200	300
Chemistry, except biochemistry	63,600	40,000	36,800	1,500	1,700	19,500	17,600	2,000	4,100	3,000	1,100
Male	53,000	33,900	31,300	1,200	1,400	15,700	14,300	1,400	3,400	2,500	900
Female	10,600	6,100	5,500	200	300	3,900	3,300	600	700	400	200
Earth science, geology and oceanography	16,500	4,600	3,600	500	500	9,000	8,100	900	2,900	2,300	500
Male	14,500	4,200	3,300	400	500	7,800	6,900	800	2,500	2,000	500
Female	2,000	500	300	S	100	1,200	1,200	100	300	300	S
Physics/astronomy	43,800	20,300	17,500	900	1,800	18,200	17,000	1,300	5,400	4,900	400
Male	40,400	18,900	16,300	900	1,700	16,600	15,500	1,100	4,900	4,500	400
Female	3,400	1,400	1,300	S	100	1,600	1,500	100	400	400	100
Other physical sciences	1,900	800	600	100	100	700	700	100	400	400	100
Male	1,500	600	500	S	S	500	500	S	400	300	100
Female	400	200	100	S	S	200	100	S	100	S	S
Social/related sciences, total	166,400	63,500	30,600	20,400	12,500	86,500	77,000	9,400	16,400	7,700	8,800
Male	102,000	37,600	20,300	10,600	6,800	54,200	49,400	4,700	10,200	5,100	5,100
Female	64,400	25,800	10,300	9,900	5,700	32,300	27,600	4,700	6,200	2,600	3,600
Economics	22,500	7,200	5,400	1,000	800	12,900	12,600	300	2,500	2,000	500
Male	18,800	6,000	4,500	900	500	11,100	10,800	200	1,800	1,400	300
Female	3,700	1,200	900	100	300	1,800	1,700	100	800	600	200
Political/related sciences	16,700	3,300	1,700	800	800	11,700	10,900	800	1,600	900	800
Male	13,100	2,600	1,300	600	600	9,100	8,500	600	1,400	700	700
Female	3,600	800	400	100	200	2,600	2,400	200	300	100	100

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

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
Doctorate — continued											
Psychology	88,800	44,000	19,000	16,700	8,300	35,500	29,400	6,100	9,300	3,200	6,000
Male	47,600	24,000	11,400	8,100	4,500	18,400	15,500	2,900	5,300	2,000	3,200
Female	41,100	20,000	7,600	8,600	3,800	17,100	13,900	3,200	4,000	1,200	2,800
Sociology/anthropology	23,100	4,800	2,100	1,000	1,700	16,300	14,900	1,400	2,000	1,000	1,000
Male	13,200	2,600	1,400	500	700	9,400	8,700	700	1,300	700	600
Female	9,800	2,200	700	500	1,000	6,900	6,200	600	700	400	400
Other social sciences	15,300	4,200	2,300	1,000	900	10,100	9,200	900	1,000	500	500
Male	9,300	2,500	1,600	300	600	6,200	5,900	300	500	200	300
Female	6,100	1,700	700	600	400	4,000	3,400	600	400	300	100
Engineering, total	105,600	67,400	61,300	2,900	3,200	30,100	28,900	1,100	8,100	6,900	1,200
Male	98,200	63,500	57,500	2,800	3,200	27,200	26,500	700	7,500	6,400	1,200
Female	7,300	3,900	3,800	100	100	2,900	2,500	400	600	500	100
Aerospace/related engineering	4,900	2,900	2,500	200	200	1,400	1,300	S	600	600	S
Male	4,700	2,800	2,400	200	200	1,300	1,300	S	600	500	S
Female	200	100	100	S	S	100	100	S	100	100	S
Chemical engineering	13,600	10,500	9,800	400	400	2,500	2,400	100	600	600	100
Male	12,600	9,700	9,000	400	400	2,300	2,200	S	600	500	100
Female	1,000	700	700	S	S	200	200	S	S	S	S
Civil/architectural engineering	9,900	4,800	4,000	300	400	3,700	3,400	300	1,400	800	600
Male	9,100	4,600	3,800	300	400	3,200	3,100	100	1,400	800	600
Female	800	200	200	S	S	500	300	200	100	100	S
Electrical/related engineering	28,300	19,500	17,900	800	800	7,300	7,100	200	1,500	1,400	100
Male	26,600	18,400	16,900	800	700	6,800	6,600	200	1,400	1,300	100
Female	1,700	1,100	1,000	S	S	500	500	S	100	100	S
Industrial engineering	3,300	1,700	1,600	S	S	1,400	1,300	100	200	200	S
Male	2,700	1,600	1,500	S	S	1,100	1,000	S	100	100	S
Female	500	100	100	S	S	300	300	S	100	100	S

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

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1999

Level and field of highest degree, and sex	Employed S&Es, total	Business/industry				Educational institution			Government		
		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
Doctorate — continued											
Mechanical engineering	13,500	8,800	8,000	300	500	4,100	4,000	100	600	600	S
Male	13,200	8,700	7,800	300	500	3,900	3,800	100	600	600	S
Female	300	200	200	S	S	200	200	S	S	S	S
Other engineering	32,100	19,200	17,500	800	900	9,700	9,300	400	3,100	2,700	500
Male	29,300	17,700	16,000	800	900	8,600	8,400	300	3,000	2,600	400
Female	2,800	1,500	1,500	S	S	1,100	1,000	100	200	100	100
Non-S&E degrees, total	122,100	47,300	23,400	11,200	12,700	66,100	48,100	17,900	8,800	2,900	5,800
Male	85,800	39,000	18,900	9,500	10,600	39,500	29,800	9,700	7,300	2,300	5,100
Female	36,400	8,300	4,500	1,700	2,100	26,600	18,400	8,200	1,400	700	800

1 Total includes professional degrees not broken out separately.

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, 1997, or 1999 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 Statistics Division, 1999 SESTAT (Scientists and Engineers Statistical Data System)