

Table C-2. Employed U.S. scientists and engineers, by level and field of highest degree attained, sex, and employment sector: 1997

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	10,585,600	7,264,900	5,910,800	728,100	625,900	1,953,500	940,600	1,012,900	1,367,300	575,100	792,100
Male	7,037,600	5,148,100	4,363,500	501,900	282,800	959,400	551,600	407,800	930,200	437,400	492,800
Female	3,548,000	2,116,800	1,547,300	226,200	343,200	994,100	389,000	605,100	437,100	137,800	299,300
S&E degree fields, total	7,704,000	5,330,200	4,487,900	436,200	406,100	1,344,500	682,900	661,600	1,029,200	451,500	577,800
Male	5,119,400	3,759,100	3,305,400	284,400	169,300	656,100	406,600	249,500	704,200	345,800	358,400
Female	2,584,500	1,571,100	1,182,500	151,800	236,800	688,400	276,300	412,100	325,100	105,700	219,400
Sciences, total	5,794,700	3,768,600	3,034,200	356,200	378,200	1,241,000	599,700	641,300	785,200	312,100	473,100
Male	3,382,800	2,327,500	1,974,500	209,700	143,300	566,400	332,300	234,100	488,900	222,800	266,100
Female	2,411,900	1,441,100	1,059,700	146,400	234,900	674,600	267,400	407,200	296,300	89,300	207,000
Computer/math sciences, total	1,003,300	756,100	689,900	33,400	32,900	165,300	65,700	99,600	81,900	47,700	34,100
Male	678,500	537,600	496,900	22,000	18,700	84,200	43,000	41,300	56,600	35,600	21,100
Female	324,800	218,500	192,900	11,400	14,200	81,000	22,800	58,300	25,200	12,200	13,100
Computer/information sciences	543,800	464,200	431,400	15,700	17,100	40,000	23,900	16,100	39,600	24,200	15,400
Male	388,700	338,700	318,300	10,300	10,100	23,500	15,100	8,400	26,500	16,900	9,600
Female	155,000	125,500	113,100	5,400	7,000	16,500	8,800	7,600	13,100	7,300	5,800
Mathematical sciences	459,500	291,900	258,400	17,700	15,800	125,300	41,800	83,500	42,300	23,500	18,800
Male	289,700	198,900	178,600	11,700	8,500	60,700	27,900	32,800	30,200	18,700	11,500
Female	169,800	93,100	79,800	6,000	7,200	64,600	14,000	50,600	12,100	4,900	7,300
Life/related sciences, total	1,204,700	720,700	558,300	91,400	71,000	325,600	202,600	123,000	158,400	69,000	89,400
Male	722,600	451,200	358,400	62,800	30,000	165,400	112,100	53,300	106,000	48,800	57,200
Female	482,000	269,400	199,900	28,600	40,900	160,300	90,500	69,700	52,400	20,200	32,200
Agricultural/food sciences	218,700	158,500	115,600	34,800	8,100	35,400	22,900	12,500	24,800	11,600	13,100
Male	163,800	124,900	89,500	30,500	4,900	20,000	13,100	6,900	18,900	9,700	9,200
Female	54,900	33,600	26,100	4,300	3,200	15,400	9,800	5,600	5,800	1,900	3,900
Biological sciences	889,100	504,100	395,000	48,900	60,200	275,900	173,400	102,500	109,200	46,800	62,400
Male	487,300	283,300	233,300	26,700	23,300	135,600	94,500	41,100	68,500	31,500	37,000
Female	401,800	220,800	161,700	22,100	37,000	140,300	78,900	61,400	40,700	15,300	25,300

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: 1997

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	96,900	58,000	47,700	7,700	2,700	14,400	6,300	8,100	24,500	10,600	13,900
Male	71,500	43,100	35,700	5,500	1,900	9,800	4,500	5,300	18,600	7,600	11,000
Female	25,400	15,000	12,000	2,100	800	4,600	1,900	2,700	5,800	3,000	2,900
Physical/related sciences, total	619,200	417,300	366,700	31,800	18,800	128,200	90,100	38,100	73,700	44,400	29,400
Male	487,400	338,300	301,200	24,900	12,300	89,800	69,500	20,300	59,300	36,700	22,600
Female	131,800	78,900	65,500	6,900	6,600	38,400	20,600	17,800	14,500	7,700	6,800
Chemistry, except biochemistry	275,100	196,000	174,100	13,700	8,200	54,000	39,600	14,400	25,200	11,600	13,600
Male	198,000	146,900	132,900	9,400	4,600	33,600	26,700	7,000	17,500	7,900	9,600
Female	77,100	49,100	41,100	4,300	3,600	20,400	13,000	7,400	7,600	3,600	4,000
Earth science, geology and oceanography	146,900	96,600	86,500	7,800	2,300	25,600	15,800	9,700	24,700	14,300	10,400
Male	122,200	82,200	73,500	6,700	2,000	19,000	12,900	6,100	21,000	11,700	9,300
Female	24,700	14,400	13,000	1,100	300	6,500	2,900	3,600	3,700	2,600	1,100
Physics/astronomy	144,100	90,600	77,100	8,200	5,300	37,700	32,300	5,400	15,800	14,000	1,800
Male	129,900	83,700	71,800	7,300	4,700	31,800	28,400	3,500	14,400	12,900	1,500
Female	14,200	6,900	5,300	1,000	600	5,900	4,000	2,000	1,400	1,100	400
Other physical sciences	53,000	34,100	29,000	2,000	3,100	10,900	2,300	8,600	8,000	4,500	3,600
Male	37,200	25,600	23,000	1,500	1,000	5,300	1,600	3,800	6,300	4,100	2,200
Female	15,800	8,600	6,000	500	2,100	5,500	700	4,800	1,700	400	1,300
Social/related sciences, total	2,967,600	1,874,500	1,419,400	199,700	255,500	621,900	241,300	380,600	471,200	151,000	320,100
Male	1,494,300	1,000,300	818,000	100,100	82,300	227,100	107,800	119,300	266,900	101,800	165,200
Female	1,473,300	874,200	601,400	99,600	173,200	394,900	133,500	261,400	204,200	49,300	155,000
Economics	402,800	320,600	275,400	31,100	14,100	39,700	25,400	14,300	42,500	27,300	15,200
Male	309,600	253,300	216,600	27,500	9,300	25,600	18,700	7,000	30,600	20,000	10,600
Female	93,200	67,300	58,900	3,500	4,900	14,100	6,700	7,300	11,900	7,300	4,500
Political/related sciences	558,700	382,000	319,900	30,300	31,900	79,900	39,000	40,900	96,700	44,900	51,800
Male	357,900	245,900	212,700	18,500	14,800	43,200	22,200	21,000	68,800	34,600	34,200
Female	200,700	136,100	107,200	11,800	17,100	36,800	16,900	19,900	27,900	10,200	17,600

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: 1997

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	1,112,800	674,600	463,400	82,600	128,600	285,800	99,400	186,400	152,400	34,000	118,400
Male	425,500	273,500	204,400	32,200	36,800	81,500	36,400	45,100	70,600	20,200	50,400
Female	687,300	401,200	259,000	50,300	91,800	204,300	63,100	141,300	81,800	13,800	68,000
Sociology/anthropology	558,600	312,700	222,600	34,300	55,800	121,100	47,700	73,400	124,800	27,700	97,100
Male	228,600	132,600	107,300	11,800	13,500	33,700	18,200	15,400	62,300	15,000	47,300
Female	330,000	180,100	115,300	22,500	42,300	87,400	29,500	57,900	62,400	12,700	49,800
Other social sciences	334,800	184,500	138,000	21,400	25,000	95,400	29,700	65,700	54,900	17,200	37,700
Male	172,700	95,000	77,000	10,000	8,000	43,100	12,400	30,700	34,600	11,900	22,700
Female	162,100	89,500	61,100	11,400	17,000	52,300	17,300	35,000	20,300	5,300	15,000
Engineering, total	1,909,200	1,561,600	1,453,700	80,100	27,900	103,500	83,200	20,300	244,100	139,300	104,700
Male	1,736,600	1,431,600	1,330,800	74,700	26,000	89,700	74,300	15,400	215,300	123,000	92,400
Female	172,600	130,000	122,800	5,300	1,900	13,800	8,900	4,900	28,800	16,400	12,400
Aerospace/related engineering	77,400	60,000	55,600	2,100	2,300	5,600	4,600	1,000	11,800	11,200	600
Male	72,200	56,000	51,700	2,000	2,300	5,300	4,400	900	10,900	10,300	600
Female	5,200	4,000	3,900	100	S	300	200	100	900	900	S
Chemical engineering	138,400	121,100	116,400	3,300	1,400	7,800	6,600	1,100	9,600	5,800	3,800
Male	115,100	102,100	98,100	2,600	1,300	6,200	5,600	600	6,900	4,400	2,500
Female	23,300	19,000	18,300	700	S	1,500	1,000	500	2,700	1,400	1,300
Civil/architectural engineering	322,300	222,400	197,500	21,500	3,400	11,700	9,300	2,400	88,100	25,500	62,600
Male	290,400	204,100	180,600	20,300	3,200	10,100	8,600	1,500	76,200	21,800	54,400
Female	31,900	18,300	16,900	1,200	200	1,600	800	800	12,000	3,700	8,300
Electrical/related engineering	582,100	496,000	469,100	18,000	8,900	31,600	26,800	4,800	54,500	42,700	11,800
Male	541,200	463,400	437,500	17,500	8,400	28,400	24,400	4,000	49,300	38,700	10,600
Female	40,900	32,600	31,600	500	500	3,200	2,400	800	5,100	3,900	1,200
Industrial engineering	105,400	90,900	81,000	7,600	2,400	5,700	3,500	2,300	8,800	7,000	1,700
Male	87,100	74,500	66,900	6,000	1,600	4,800	2,700	2,100	7,800	6,000	1,700
Female	18,300	16,400	14,000	1,600	800	900	800	100	1,000	1,000	S

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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: 1997

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	386,100	332,700	313,600	15,600	3,500	17,300	13,700	3,600	36,100	24,000	12,100
Male	365,000	315,500	296,800	15,300	3,400	15,600	12,200	3,400	33,900	22,100	11,800
Female	21,000	17,100	16,800	200	100	1,700	1,500	200	2,200	1,900	300
Other engineering	297,500	238,500	220,500	12,000	6,000	23,800	18,700	5,100	35,200	23,100	12,100
Male	265,600	216,000	199,300	11,000	5,700	19,300	16,400	2,800	30,400	19,600	10,800
Female	31,900	22,500	21,300	1,000	300	4,500	2,300	2,300	4,900	3,500	1,300
Non-S&E degrees, total	2,881,700	1,934,700	1,422,900	291,900	219,900	609,000	257,700	351,300	338,000	123,700	214,300
Male	1,918,200	1,389,000	1,058,100	217,400	113,500	303,200	144,900	158,300	226,000	91,600	134,400
Female	963,500	545,700	364,800	74,500	106,400	305,700	112,700	193,000	112,000	32,100	80,000
Bachelor's											
All degree fields, total	6,193,700	4,582,200	3,903,100	360,500	318,600	780,800	317,600	463,200	830,700	337,900	492,900
Male	4,056,500	3,186,700	2,821,600	244,200	120,900	309,600	147,500	162,100	560,200	253,400	306,800
Female	2,137,200	1,395,500	1,081,500	116,200	197,700	471,200	170,000	301,100	270,500	84,400	186,100
S&E degree fields, total	5,683,700	4,177,500	3,554,700	334,000	288,900	735,400	294,000	441,500	770,700	313,000	457,700
Male	3,709,600	2,899,000	2,567,700	223,300	108,000	291,300	139,200	152,000	519,400	235,300	284,100
Female	1,974,100	1,278,500	986,900	110,700	180,900	444,200	154,700	289,400	251,400	77,800	173,600
Sciences, total	4,303,400	3,022,100	2,480,400	269,500	272,100	689,900	264,100	425,900	591,400	216,700	374,700
Male	2,453,600	1,838,200	1,582,700	163,100	92,400	253,700	113,700	140,100	361,800	150,900	210,900
Female	1,849,800	1,183,900	897,800	106,400	179,700	436,200	150,400	285,800	229,600	65,800	163,800
Computer/math sciences, total	721,600	568,700	516,600	27,100	24,900	90,400	26,300	64,100	62,500	33,700	28,800
Male	474,600	395,600	364,500	17,700	13,400	37,100	14,200	22,900	42,000	24,300	17,700
Female	246,900	173,100	152,200	9,500	11,500	53,300	12,100	41,200	20,500	9,400	11,100
Computer/information sciences	385,000	335,600	310,000	12,800	12,800	19,700	11,900	7,900	29,700	16,600	13,100
Male	269,500	239,900	224,500	8,400	6,900	10,100	6,300	3,800	19,500	11,400	8,100
Female	115,500	95,700	85,400	4,400	5,900	9,600	5,600	4,100	10,200	5,200	5,000
Mathematical sciences	336,600	233,100	206,700	14,300	12,200	70,600	14,400	56,200	32,900	17,100	15,700
Male	205,200	155,700	139,900	9,200	6,500	27,000	7,900	19,100	22,500	12,900	9,600
Female	131,400	77,400	66,700	5,100	5,600	43,700	6,500	37,100	10,300	4,200	6,100

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: 1997

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	884,500	593,100	461,000	77,400	54,600	176,900	89,100	87,800	114,500	42,800	71,800
Male	515,700	366,800	293,800	52,700	20,300	72,500	39,200	33,300	76,500	31,200	45,200
Female	368,800	226,300	167,200	24,700	34,400	104,400	50,000	54,500	38,100	11,500	26,500
Agricultural/food sciences	175,200	137,500	98,600	31,600	7,300	18,200	9,500	8,600	19,500	8,900	10,600
Male	130,600	108,000	76,000	27,800	4,200	8,100	4,300	3,900	14,400	7,400	7,000
Female	44,600	29,500	22,600	3,800	3,100	10,000	5,300	4,800	5,100	1,400	3,600
Biological sciences	634,500	407,500	322,800	38,800	46,000	150,000	76,500	73,500	77,000	27,100	49,900
Male	328,900	222,700	187,600	19,800	15,400	58,200	33,200	25,000	48,000	19,000	29,000
Female	305,600	184,800	135,200	19,000	30,600	91,800	43,300	48,600	29,000	8,200	20,900
Environmental life sciences	74,800	48,000	39,600	7,000	1,300	8,700	3,100	5,600	18,000	6,800	11,200
Male	56,200	36,000	30,300	5,100	600	6,200	1,700	4,500	14,000	4,900	9,200
Female	18,500	12,000	9,400	1,900	700	2,600	1,400	1,200	4,000	1,900	2,100
Physical/related sciences, total	381,900	283,600	249,600	21,700	12,300	54,400	33,200	21,200	43,900	21,800	22,100
Male	292,800	224,900	202,200	16,000	6,700	33,100	22,900	10,200	34,800	17,500	17,200
Female	89,100	58,700	47,400	5,700	5,600	21,300	10,300	11,000	9,100	4,200	4,900
Chemistry, except biochemistry	176,100	133,500	116,900	10,600	5,900	25,000	17,300	7,600	17,600	6,600	11,000
Male	121,300	96,000	86,400	6,900	2,700	13,400	10,000	3,400	12,000	4,200	7,700
Female	54,800	37,500	30,500	3,800	3,200	11,600	7,400	4,300	5,600	2,400	3,200
Earth science, geology and oceanography	96,300	69,400	62,700	5,200	1,500	10,700	5,200	5,500	16,100	8,600	7,500
Male	80,700	59,100	53,400	4,300	1,400	7,700	4,100	3,600	13,900	7,000	6,900
Female	15,600	10,400	9,300	900	200	3,000	1,100	1,900	2,200	1,600	600
Physics/astronomy	68,800	51,800	45,300	4,100	2,400	11,900	9,500	2,300	5,100	4,100	1,100
Male	62,300	48,200	42,500	3,500	2,200	9,300	8,200	1,200	4,800	3,900	800
Female	6,500	3,700	2,900	600	200	2,500	1,400	1,200	400	100	200
Other physical sciences	40,700	28,900	24,600	1,800	2,500	6,800	1,100	5,700	5,000	2,400	2,600
Male	28,600	21,700	19,900	1,300	500	2,700	700	2,000	4,100	2,300	1,800
Female	12,200	7,100	4,700	500	2,000	4,100	400	3,700	900	100	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: 1997

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	2,315,500	1,576,700	1,253,200	143,300	180,300	368,300	115,500	252,800	370,500	118,400	252,100
Male	1,170,500	850,900	722,200	76,700	52,000	111,000	37,400	73,600	208,500	77,800	130,700
Female	1,145,000	725,800	531,000	66,600	128,200	257,200	78,100	179,200	162,000	40,600	121,400
Economics	337,300	286,400	246,800	28,500	11,000	19,200	8,300	10,900	31,700	20,800	11,000
Male	258,800	226,300	194,100	25,600	6,600	10,400	5,600	4,800	22,100	14,700	7,300
Female	78,500	60,100	52,700	2,900	4,400	8,800	2,700	6,100	9,700	6,000	3,700
Political/related sciences	476,100	340,400	293,400	24,000	23,000	55,200	21,300	33,900	80,500	35,200	45,300
Male	302,400	220,400	194,900	15,000	10,500	26,200	9,700	16,500	55,900	26,300	29,600
Female	173,700	120,100	98,600	9,000	12,500	29,000	11,600	17,500	24,600	8,800	15,800
Psychology	750,000	505,400	382,000	43,200	80,100	142,900	47,400	95,400	101,700	25,100	76,600
Male	279,800	203,000	164,400	19,500	19,000	29,500	12,400	17,100	47,300	14,800	32,500
Female	470,200	302,400	217,600	23,700	61,100	113,400	35,000	78,300	54,400	10,300	44,100
Sociology/anthropology	496,300	292,300	211,100	31,700	49,500	91,000	24,900	66,100	112,900	24,000	88,900
Male	196,900	122,200	100,800	10,200	11,200	19,200	5,700	13,500	55,400	12,800	42,600
Female	299,400	170,100	110,300	21,500	38,300	71,800	19,200	52,600	57,500	11,200	46,300
Other social sciences	255,900	152,200	119,700	15,800	16,700	60,000	13,600	46,400	43,600	13,400	30,200
Male	132,600	79,000	68,000	6,300	4,800	25,700	4,000	21,700	27,900	9,200	18,700
Female	123,300	73,200	51,800	9,500	11,900	34,300	9,600	24,700	15,700	4,200	11,500
Engineering, total	1,380,300	1,155,400	1,074,200	64,500	16,800	45,500	29,900	15,600	179,300	96,400	83,000
Male	1,256,000	1,060,800	985,100	60,200	15,500	37,600	25,600	12,000	157,600	84,400	73,200
Female	124,300	94,600	89,100	4,200	1,200	7,900	4,300	3,600	21,700	12,000	9,800
Aerospace/related engineering	55,200	43,700	41,200	1,900	600	2,900	2,000	900	8,600	8,100	500
Male	50,900	40,200	37,800	1,800	600	2,700	1,900	800	8,000	7,400	500
Female	4,400	3,500	3,400	100	S	200	100	100	700	700	S
Chemical engineering	102,100	90,500	87,500	2,300	700	3,900	3,000	1,000	7,700	4,500	3,200
Male	82,200	74,400	71,800	1,800	700	2,800	2,300	500	5,000	3,200	1,900
Female	19,900	16,200	15,700	500	S	1,100	700	400	2,600	1,300	1,300

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: 1997

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	243,800	169,700	150,900	16,600	2,200	4,800	2,900	1,900	69,200	19,100	50,100
Male	219,800	155,900	138,000	15,700	2,200	3,900	2,700	1,200	60,000	16,600	43,400
Female	23,900	13,900	12,900	900	100	900	200	600	9,200	2,600	6,600
Electrical/related engineering	413,200	358,000	339,200	13,800	4,900	14,300	10,300	4,000	40,900	30,900	10,000
Male	384,400	335,100	316,900	13,500	4,700	12,500	9,000	3,500	36,800	27,700	9,000
Female	28,800	22,900	22,400	300	200	1,800	1,300	500	4,100	3,100	1,000
Industrial engineering	79,300	71,200	62,600	6,900	1,600	2,400	900	1,500	5,800	4,700	1,100
Male	65,800	58,700	52,400	5,400	900	2,200	700	1,400	4,900	3,800	1,100
Female	13,500	12,400	10,100	1,600	700	300	200	100	800	800	S
Mechanical engineering	308,500	270,500	253,900	14,000	2,600	8,700	6,300	2,500	29,200	18,400	10,800
Male	292,000	256,900	240,500	13,800	2,500	7,600	5,300	2,300	27,400	16,900	10,600
Female	16,500	13,600	13,400	100	100	1,100	1,000	200	1,800	1,500	200
Other engineering	178,200	151,800	138,900	9,000	4,000	8,500	4,500	3,900	17,900	10,600	7,200
Male	160,900	139,700	127,600	8,200	3,900	5,800	3,600	2,200	15,400	8,800	6,700
Female	17,300	12,200	11,300	800	100	2,600	1,000	1,700	2,400	1,900	600
Non-S&E degrees, total	510,000	404,600	348,400	26,500	29,700	45,400	23,600	21,800	60,000	24,800	35,200
Male	346,900	287,700	253,900	20,900	12,900	18,400	8,300	10,100	40,800	18,200	22,700
Female	163,100	116,900	94,600	5,600	16,800	27,000	15,300	11,700	19,200	6,700	12,500
Master's											
All degree fields, total	2,819,800	1,736,000	1,370,600	150,200	215,200	711,400	219,300	492,100	372,500	157,000	215,500
Male	1,800,500	1,220,700	1,034,800	85,700	100,200	327,400	115,900	211,500	252,400	122,700	129,700
Female	1,019,300	515,300	335,800	64,500	115,000	383,900	103,400	280,500	120,100	34,300	85,800
S&E degree fields, total	1,431,600	898,400	738,700	72,700	87,000	332,400	133,200	199,200	200,900	97,600	103,200
Male	960,000	657,500	573,400	42,300	41,800	162,500	76,400	86,100	140,100	77,300	62,700
Female	471,600	240,900	165,300	30,400	45,200	169,900	56,900	113,100	60,800	20,300	40,500
Sciences, total	1,001,000	552,800	415,000	59,300	78,500	304,200	109,100	195,200	144,000	61,100	82,900
Male	571,600	343,900	280,300	29,900	33,800	138,000	54,900	83,200	89,700	44,800	44,900
Female	429,400	208,900	134,700	29,400	44,700	166,200	54,200	112,000	54,300	16,300	38,000

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: 1997

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	244,700	174,100	161,600	5,700	6,900	52,800	18,400	34,400	17,700	12,500	5,200
Male	172,100	130,500	122,300	3,800	4,400	28,400	10,700	17,700	13,200	10,000	3,200
Female	72,500	43,600	39,200	1,800	2,500	24,400	7,700	16,700	4,500	2,500	2,000
Computer/information sciences	148,800	123,100	116,400	2,600	4,100	16,100	8,000	8,200	9,600	7,300	2,300
Male	110,900	94,100	89,400	1,700	3,000	10,100	5,500	4,600	6,700	5,300	1,400
Female	37,900	29,000	27,000	1,000	1,100	6,000	2,500	3,500	2,900	2,100	800
Mathematical sciences	95,800	51,000	45,200	3,000	2,800	36,700	10,400	26,200	8,100	5,200	3,000
Male	61,200	36,400	32,900	2,200	1,400	18,300	5,200	13,100	6,500	4,700	1,800
Female	34,600	14,600	12,200	900	1,400	18,400	5,300	13,100	1,600	400	1,200
Life/related sciences, total	156,600	72,900	56,300	8,900	7,700	57,300	27,700	29,600	26,400	13,200	13,200
Male	90,500	42,600	32,300	6,100	4,200	31,200	14,400	16,900	16,700	7,800	9,000
Female	66,100	30,300	24,000	2,800	3,500	26,100	13,300	12,700	9,700	5,500	4,200
Agricultural/food sciences	26,700	14,400	11,500	2,500	400	8,900	5,400	3,500	3,300	1,300	2,100
Male	19,100	11,000	8,700	2,100	300	5,200	2,400	2,700	2,900	1,100	1,800
Female	7,600	3,400	2,800	500	100	3,700	3,000	700	500	200	300
Biological sciences	112,500	49,700	37,800	5,800	6,200	44,400	20,700	23,800	18,300	9,500	8,900
Male	60,400	25,800	19,200	3,700	2,900	23,800	10,500	13,300	10,800	5,100	5,700
Female	52,100	24,000	18,600	2,100	3,300	20,600	10,100	10,500	7,500	4,400	3,200
Environmental life sciences	17,400	8,700	7,000	600	1,100	3,900	1,600	2,400	4,800	2,500	2,300
Male	11,000	5,800	4,400	400	1,000	2,200	1,400	800	3,000	1,600	1,400
Female	6,300	2,900	2,600	200	100	1,700	200	1,500	1,700	900	800
Physical/related sciences, total	114,500	70,600	61,400	6,700	2,500	27,500	14,100	13,400	16,400	11,300	5,200
Male	86,300	57,300	49,400	6,000	2,000	16,700	9,400	7,300	12,400	9,000	3,400
Female	28,200	13,300	12,000	800	500	10,800	4,700	6,100	4,100	2,300	1,800
Chemistry, except biochemistry	36,500	23,100	21,600	1,200	300	9,800	4,900	5,000	3,500	1,800	1,800
Male	23,500	16,800	15,600	1,000	200	4,600	2,300	2,300	2,000	900	1,100
Female	13,000	6,300	6,000	200	100	5,200	2,600	2,600	1,500	800	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: 1997

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	34,400	22,800	20,300	2,200	300	6,200	2,600	3,600	5,400	3,100	2,300
Male	27,000	19,200	17,000	2,000	200	3,800	1,900	1,900	4,100	2,300	1,700
Female	7,400	3,600	3,400	200	S	2,500	800	1,700	1,300	800	500
Physics/astronomy	33,200	20,100	15,600	3,100	1,400	8,200	6,200	2,000	4,900	4,600	300
Male	28,600	17,900	14,100	2,800	1,100	6,300	5,000	1,300	4,300	4,200	200
Female	4,600	2,200	1,500	300	300	1,900	1,200	700	600	500	100
Other physical sciences	10,500	4,600	3,900	200	500	3,200	400	2,800	2,700	1,800	900
Male	7,300	3,400	2,800	200	500	2,000	300	1,700	1,900	1,500	400
Female	3,200	1,200	1,100	S	100	1,300	200	1,100	800	200	500
Social/related sciences, total	485,300	235,200	135,800	38,000	61,400	166,600	48,900	117,800	83,400	24,100	59,300
Male	222,700	113,500	76,400	14,000	23,200	61,800	20,400	41,300	47,400	18,100	29,300
Female	262,600	121,700	59,500	24,100	38,100	104,900	28,500	76,400	36,000	6,000	30,000
Economics	44,000	27,500	23,200	2,100	2,100	8,600	5,400	3,200	7,900	4,300	3,600
Male	32,700	21,400	18,000	1,500	1,900	5,000	3,000	2,000	6,400	3,500	2,900
Female	11,200	6,100	5,200	600	200	3,600	2,400	1,200	1,500	800	700
Political/related sciences	66,000	38,600	24,800	5,700	8,100	13,000	6,800	6,200	14,400	8,600	5,800
Male	42,300	23,100	16,500	2,900	3,700	7,600	3,700	3,900	11,500	7,500	4,100
Female	23,800	15,500	8,300	2,800	4,400	5,400	3,100	2,300	2,900	1,100	1,700
Psychology	271,500	124,200	61,800	23,600	38,800	106,200	22,600	83,600	41,000	5,400	35,600
Male	98,100	47,200	28,800	5,000	13,400	33,200	8,000	25,300	17,700	3,100	14,600
Female	173,300	77,000	32,900	18,600	25,400	73,000	14,700	58,300	23,300	2,300	21,000
Sociology/anthropology	39,500	16,300	9,700	1,700	4,900	13,500	7,300	6,200	9,800	2,600	7,200
Male	18,200	8,100	5,400	1,000	1,700	4,500	3,100	1,400	5,600	1,600	4,000
Female	21,300	8,200	4,300	700	3,200	9,000	4,200	4,800	4,200	1,000	3,200
Other social sciences	64,300	28,600	16,300	4,900	7,400	25,300	6,800	18,500	10,300	3,300	7,100
Male	31,300	13,700	7,600	3,500	2,600	11,400	2,700	8,700	6,200	2,500	3,800
Female	33,000	14,900	8,700	1,400	4,800	13,900	4,100	9,900	4,100	800	3,300

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: 1997

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	430,600	345,600	323,700	13,400	8,500	28,200	24,200	4,000	56,900	36,500	20,400
Male	388,400	313,600	293,100	12,500	8,000	24,400	21,500	2,900	50,400	32,500	17,900
Female	42,200	32,000	30,600	900	500	3,700	2,600	1,100	6,500	4,000	2,500
Aerospace/related engineering	18,200	14,000	12,400	100	1,600	1,500	1,300	200	2,700	2,700	S
Male	17,400	13,500	11,900	S	1,600	1,400	1,300	200	2,500	2,500	S
Female	800	500	500	S	S	100	100	S	200	200	S
Chemical engineering	23,000	20,500	19,600	700	200	1,100	1,000	100	1,400	800	600
Male	20,300	18,200	17,400	600	200	800	800	S	1,300	700	600
Female	2,700	2,300	2,200	200	S	300	200	100	100	100	S
Civil/architectural engineering	69,200	48,600	42,900	4,800	1,000	2,800	2,400	400	17,800	5,700	12,000
Male	61,800	44,300	38,900	4,500	900	2,400	2,100	300	15,100	4,700	10,400
Female	7,400	4,300	3,900	300	100	400	300	100	2,600	1,100	1,600
Electrical/related engineering	142,700	120,900	113,900	3,700	3,300	9,800	9,100	800	11,900	10,300	1,600
Male	131,900	112,100	105,600	3,500	3,000	8,800	8,300	500	11,000	9,600	1,400
Female	10,700	8,800	8,400	200	300	1,000	800	300	800	700	200
Industrial engineering	22,800	18,100	16,900	600	600	1,900	1,300	600	2,900	2,200	600
Male	18,700	14,500	13,400	600	600	1,500	900	600	2,700	2,100	600
Female	4,100	3,600	3,500	S	S	400	400	S	100	100	S
Mechanical engineering	65,800	54,600	52,700	1,300	600	5,000	3,900	1,100	6,200	4,900	1,300
Male	61,700	51,400	49,500	1,200	600	4,500	3,500	1,000	5,800	4,500	1,300
Female	4,100	3,300	3,200	100	S	500	400	100	400	300	S
Other engineering	89,100	68,800	65,300	2,300	1,200	6,100	5,200	900	14,200	9,900	4,300
Male	76,600	59,600	56,400	2,200	1,100	5,000	4,600	400	12,000	8,400	3,600
Female	12,500	9,200	9,000	200	100	1,100	600	500	2,200	1,600	700
Non-S&E degrees, total	1,388,200	837,600	631,900	77,500	128,200	379,000	86,000	292,900	171,600	59,400	112,300
Male	840,500	563,200	461,400	43,300	58,500	165,000	39,500	125,500	112,300	45,400	67,000
Female	547,700	274,400	170,500	34,100	69,700	214,000	46,500	167,400	59,300	14,000	45,300

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: 1997

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	696,000	289,100	212,500	38,300	38,300	341,800	302,000	39,800	65,100	42,500	22,600
Male	528,000	232,300	179,300	25,800	27,100	244,500	221,000	23,600	51,200	34,700	16,400
Female	168,000	56,800	33,200	12,400	11,200	97,300	81,000	16,200	13,900	7,800	6,200
S&E degree fields, total	580,300	250,100	192,800	28,000	29,200	273,300	254,500	18,800	56,900	40,300	16,500
Male	446,000	200,300	162,900	17,900	19,600	201,500	190,400	11,100	44,200	32,700	11,400
Female	134,300	49,700	30,000	10,200	9,600	71,800	64,100	7,700	12,700	7,600	5,100
Sciences, total	482,000	189,600	137,200	25,900	26,500	243,500	225,400	18,100	49,000	33,900	15,100
Male	353,900	143,200	110,300	15,900	17,100	173,800	163,200	10,600	36,900	26,700	10,200
Female	128,200	46,400	26,900	10,000	9,400	69,700	62,200	7,500	12,100	7,200	4,900
Computer/math sciences, total	36,900	13,100	11,500	600	1,000	22,100	21,000	1,100	1,600	1,500	100
Male	31,500	11,300	10,000	500	900	18,800	18,100	700	1,400	1,300	100
Female	5,300	1,800	1,500	100	200	3,300	3,000	400	200	200	S
Computer/information sciences	9,700	5,300	4,900	200	200	4,100	4,000	100	300	300	S
Male	8,200	4,600	4,200	200	200	3,300	3,200	100	300	200	S
Female	1,600	700	700	S	S	800	800	S	100	100	S
Mathematical sciences	27,200	7,800	6,600	400	800	18,000	17,000	1,000	1,300	1,200	100
Male	23,400	6,700	5,800	300	700	15,500	14,800	600	1,200	1,100	100
Female	3,800	1,100	900	100	100	2,500	2,200	400	200	200	S
Life/related sciences, total	162,500	54,200	40,500	5,100	8,700	91,100	85,500	5,600	17,100	12,700	4,400
Male	115,400	41,400	31,800	4,000	5,600	61,500	58,400	3,100	12,600	9,500	3,100
Female	47,100	12,800	8,700	1,100	3,100	29,700	27,100	2,500	4,600	3,200	1,400
Agricultural/food sciences	16,800	6,600	5,500	700	400	8,300	7,900	400	1,900	1,500	400
Male	14,100	5,800	4,800	600	400	6,700	6,400	300	1,600	1,200	400
Female	2,700	700	700	S	S	1,600	1,500	100	300	300	S
Biological sciences	141,200	46,300	33,900	4,300	8,100	81,100	75,900	5,200	13,800	10,200	3,600
Male	97,300	34,300	26,000	3,300	5,000	53,400	50,600	2,800	9,700	7,400	2,300
Female	43,900	12,000	7,900	1,000	3,100	27,700	25,400	2,400	4,100	2,800	1,300

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: 1997

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	4,500	1,400	1,100	100	200	1,700	1,700	100	1,400	1,000	400
Male	4,000	1,300	1,000	100	200	1,500	1,400	S	1,200	900	400
Female	500	100	100	S	S	300	300	S	100	100	S
Physical/related sciences, total	122,200	62,700	55,400	3,300	4,000	46,200	42,700	3,500	13,300	11,200	2,100
Male	107,700	55,700	49,200	2,900	3,600	40,000	37,200	2,800	12,000	10,000	1,900
Female	14,500	7,000	6,100	400	400	6,300	5,600	700	1,300	1,100	100
Chemistry, except biochemistry	62,500	39,300	35,600	1,900	1,900	19,200	17,400	1,800	4,100	3,200	900
Male	53,200	34,100	30,900	1,500	1,600	15,600	14,400	1,200	3,500	2,800	800
Female	9,300	5,200	4,600	400	300	3,600	3,000	500	500	400	100
Earth science, geology and oceanography	16,100	4,300	3,400	400	500	8,700	8,000	600	3,100	2,500	600
Male	14,300	3,900	3,100	400	400	7,600	7,000	600	2,800	2,200	600
Female	1,700	400	300	S	100	1,100	1,000	100	200	200	S
Physics/astronomy	41,800	18,300	15,800	1,000	1,600	17,700	16,600	1,000	5,800	5,300	500
Male	38,700	17,300	14,900	1,000	1,500	16,200	15,200	1,000	5,300	4,800	500
Female	3,000	1,000	900	S	100	1,500	1,400	100	500	500	S
Other physical sciences	1,800	700	600	100	100	800	700	S	300	200	100
Male	1,400	500	300	100	100	600	600	S	300	200	100
Female	400	200	200	S	S	100	100	S	S	S	S
Social/related sciences, total	160,500	59,500	29,800	16,900	12,800	84,000	76,100	7,900	16,900	8,500	8,500
Male	99,200	34,800	19,300	8,500	7,000	53,600	49,600	4,000	10,900	5,800	5,100
Female	61,300	24,800	10,600	8,400	5,800	30,400	26,500	3,900	6,100	2,600	3,400
Economics	21,500	6,800	5,400	400	1,000	11,900	11,800	100	2,800	2,300	500
Male	18,100	5,700	4,500	400	800	10,200	10,100	100	2,100	1,700	400
Female	3,500	1,100	900	S	200	1,700	1,700	S	700	500	100
Political/related sciences	16,500	3,000	1,600	600	800	11,700	11,000	800	1,900	1,100	700
Male	13,200	2,400	1,300	500	600	9,400	8,800	600	1,400	800	600
Female	3,300	500	300	100	200	2,400	2,200	200	400	300	200

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: 1997

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	85,000	42,000	19,100	14,300	8,700	33,700	28,500	5,200	9,300	3,400	5,900
Male	45,700	22,200	10,900	6,800	4,500	18,000	15,600	2,500	5,500	2,300	3,200
Female	39,300	19,800	8,100	7,500	4,200	15,700	12,900	2,700	3,800	1,100	2,700
Sociology/anthropology	22,800	4,200	1,800	900	1,500	16,600	15,500	1,100	2,100	1,100	1,000
Male	13,500	2,300	1,100	600	600	9,900	9,400	500	1,300	600	700
Female	9,300	1,900	700	400	900	6,700	6,100	500	700	400	300
Other social sciences	14,600	3,600	2,000	700	900	10,100	9,300	800	900	600	400
Male	8,800	2,200	1,400	200	600	6,000	5,700	300	500	300	200
Female	5,900	1,400	600	500	300	4,100	3,600	400	400	300	100
Engineering, total	98,200	60,500	55,700	2,200	2,700	29,800	29,100	700	7,900	6,500	1,400
Male	92,100	57,100	52,600	2,000	2,500	27,700	27,200	500	7,300	6,100	1,200
Female	6,100	3,400	3,100	200	100	2,200	1,900	200	600	400	100
Aerospace/related engineering	4,000	2,400	2,100	100	200	1,200	1,200	S	500	500	S
Male	4,000	2,300	2,000	100	200	1,200	1,200	S	500	400	S
Female	100	S	S	S	S	S	S	S	S	S	S
Chemical engineering	13,300	10,000	9,300	300	400	2,800	2,700	100	500	500	S
Male	12,600	9,500	8,900	300	400	2,600	2,500	100	500	500	S
Female	700	500	400	S	S	200	200	S	S	S	S
Civil/architectural engineering	9,400	4,100	3,700	200	200	4,100	4,000	100	1,200	600	500
Male	8,800	3,900	3,600	100	200	3,800	3,700	S	1,100	600	500
Female	600	200	100	S	S	300	300	100	100	S	100
Electrical/related engineering	26,300	17,100	15,900	500	600	7,500	7,400	100	1,700	1,500	200
Male	24,900	16,200	15,100	500	600	7,100	7,000	100	1,500	1,300	200
Female	1,400	900	800	S	S	400	400	S	100	100	S
Industrial engineering	3,300	1,700	1,500	S	100	1,500	1,300	100	200	100	S
Male	2,600	1,300	1,100	S	100	1,200	1,100	100	100	100	S
Female	700	400	400	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: 1997

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	11,800	7,600	7,000	300	300	3,500	3,500	100	700	700	S
Male	11,400	7,300	6,700	300	300	3,400	3,400	100	700	700	S
Female	400	300	300	S	S	100	100	S	S	S	S
Other engineering	30,100	17,800	16,200	700	800	9,200	9,000	300	3,100	2,500	600
Male	27,900	16,600	15,200	600	800	8,400	8,200	200	3,000	2,400	500
Female	2,200	1,200	1,000	100	100	800	700	100	200	100	100
Non-S&E degrees, total	115,800	39,000	19,700	10,200	9,100	68,500	47,500	21,000	8,300	2,200	6,100
Male	82,000	32,000	16,500	8,000	7,600	43,000	30,600	12,400	7,000	2,000	5,000
Female	33,700	7,000	3,200	2,300	1,600	25,500	16,900	8,500	1,200	100	1,100

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)