

Table E-7. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and primary/secondary work activity : 1993

Highest degree, occupation, and sex	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
All degree levels¹						
All occupations, total²	9,793,500	2,919,600	1,462,800	5,625,100	2,072,300	3,366,800
Male	6,729,500	2,191,400	771,900	4,032,200	1,443,500	2,206,600
Female	3,064,100	728,200	690,900	1,593,000	628,800	1,160,200
S&E occupations, total	3,303,400	1,875,500	402,200	1,354,100	1,184,000	693,500
Male	2,547,900	1,508,800	267,100	1,071,600	897,900	500,800
Female	755,500	366,800	135,100	282,500	286,100	192,600
Scientists, total	1,912,300	962,900	350,400	700,100	843,200	393,500
Male	1,276,400	674,400	219,700	472,100	590,400	226,500
Female	635,900	288,500	130,700	228,100	252,800	167,000
Computer/math sci, total	991,500	399,600	112,700	418,900	733,400	113,500
Male	686,100	290,900	69,800	287,500	513,400	73,300
Female	305,400	108,700	43,000	131,500	220,000	40,200
Computer/information scientists	870,000	341,200	38,800	389,000	691,900	101,300
Male	608,300	249,500	21,800	267,800	488,900	67,100
Female	261,700	91,700	17,000	121,200	203,000	34,200
Mathematical scientists	46,800	30,800	3,500	18,100	22,500	5,700
Male	29,600	21,500	2,600	11,500	13,000	2,900
Female	17,200	9,300	900	6,600	9,500	2,900
Postsecondary teachers- computer math sci	74,700	27,600	70,500	11,800	19,000	6,400
Male	48,200	19,900	45,400	8,200	11,500	3,400
Female	26,500	7,700	25,000	3,600	7,500	3,100
Life/related scientists, total	322,300	224,900	79,700	98,400	31,900	69,100
Male	212,600	145,200	52,300	68,300	21,400	47,600
Female	109,700	79,700	27,400	30,100	10,500	21,600
Agricultural/food scientists	44,600	29,000	1,900	21,300	6,200	10,300
Male	34,700	21,300	1,500	17,500	5,400	7,800
Female	9,900	7,700	400	3,800	800	2,500
Biological scientists	175,900	145,900	10,200	46,800	18,700	33,300
Male	104,400	86,300	6,200	28,100	10,800	20,300
Female	71,500	59,600	4,000	18,700	7,900	13,000
Environmental life scientists	24,800	9,000	2,400	14,400	4,300	10,400
Male	20,900	6,600	1,900	12,500	3,600	8,800
Female	3,900	2,400	400	1,900	800	1,600
Postsecondary teachers- life/related sciences	77,000	41,000	65,200	15,900	2,700	15,100
Male	52,600	31,000	42,600	10,300	1,700	10,600
Female	24,500	10,000	22,500	5,600	1,000	4,500

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

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Highest degree, occupation, and sex	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
All degree levels¹ — continued						
Physical/related scientists, total ...	280,900	204,500	48,200	86,500	51,900	49,700
Male	221,100	163,600	35,300	68,500	41,900	38,300
Female	59,900	40,900	12,900	17,900	10,000	11,400
Chemistry, except biochemistry	114,200	86,600	2,800	38,400	15,100	22,300
Male	83,700	63,800	1,400	28,900	11,300	15,600
Female	30,400	22,800	1,400	9,600	3,800	6,700
Earth scientists/geologists/oceanographers	68,700	51,200	1,100	24,900	19,700	15,700
Male	58,100	43,700	800	21,500	15,900	13,100
Female	10,700	7,500	200	3,400	3,800	2,500
Physicists/astronomers	34,900	30,600	1,900	7,500	9,800	3,800
Male	31,900	28,100	1,600	6,500	9,100	3,300
Female	3,000	2,500	300	900	700	500
Other physical/related scientists	17,700	10,000	300	8,600	5,000	5,700
Male	13,000	7,200	200	6,400	3,600	4,600
Female	4,600	2,800	100	2,300	1,400	1,100
Postsecondary teachers-physical/related sci	45,500	26,100	42,100	7,100	2,400	2,200
Male	34,400	20,700	31,300	5,300	2,000	1,700
Female	11,100	5,400	10,800	1,800	400	500
Social/related scientists, total	317,600	133,900	109,800	96,400	25,900	161,200
Male	156,600	74,700	62,300	47,800	13,700	67,300
Female	160,900	59,200	47,500	48,600	12,300	93,900
Economists	31,100	18,600	500	14,300	8,300	9,700
Male	22,000	13,300	400	10,100	5,300	7,000
Female	9,100	5,300	100	4,200	3,000	2,700
Political/related scientists	8,600	5,500	700	3,300	600	2,900
Male	5,200	3,400	600	2,000	400	1,600
Female	3,400	2,200	100	1,300	200	1,300
Psychologists	150,800	30,900	25,300	50,100	7,100	126,800
Male	56,800	11,700	8,400	20,500	3,400	48,100
Female	94,000	19,200	16,900	29,600	3,600	78,600
Sociologists/anthropologists	15,100	11,600	1,300	6,100	2,500	3,100
Male	6,300	5,200	700	2,800	1,200	1,100
Female	8,800	6,500	600	3,300	1,300	2,000
Other social/related scientists	24,000	15,100	2,200	8,600	3,600	9,500
Male	10,900	7,800	900	3,700	1,200	4,600
Female	13,000	7,200	1,400	4,900	2,400	4,900
Postsecondary teachers-social/related sci	88,100	52,200	79,700	14,100	3,900	9,200
Male	55,500	33,300	51,400	8,700	2,200	4,800
Female	32,600	18,900	28,300	5,400	1,800	4,400

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

Table E-7. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and primary/secondary work activity : 1993

Highest degree, occupation, and sex	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
All degree levels¹ — continued						
Engineers, total	1,391,100	912,700	51,800	653,900	340,900	300,000
Male	1,271,500	834,400	47,400	599,500	307,500	274,400
Female	119,600	78,300	4,400	54,400	33,300	25,600
Aerospace/related engineers	84,100	62,600	1,400	31,800	26,900	14,900
Male	78,000	58,100	900	30,100	24,600	13,900
Female	6,000	4,500	500	1,800	2,300	1,000
Chemical engineers	77,700	61,700	1,600	29,800	11,800	15,600
Male	66,000	52,500	1,500	24,300	10,000	13,100
Female	11,700	9,200	100	5,400	1,800	2,400
Civil/architectural engineers	191,500	103,800	2,700	116,500	38,300	56,100
Male	173,900	93,000	2,500	107,100	33,200	51,000
Female	17,700	10,700	100	9,400	5,100	5,100
Electrical/related engineers	362,500	261,800	5,400	134,300	132,600	60,000
Male	343,100	247,000	5,000	128,200	124,100	57,800
Female	19,400	14,800	400	6,100	8,500	2,200
Industrial engineers	70,200	35,800	1,100	41,700	19,700	21,100
Male	62,000	31,900	900	36,700	16,100	19,400
Female	8,200	4,000	200	5,000	3,600	1,700
Mechanical engineers	253,300	205,300	2,400	105,500	49,400	42,000
Male	239,500	194,300	2,200	99,800	46,200	40,200
Female	13,800	11,000	100	5,700	3,200	1,800
Other engineers	318,600	161,800	7,700	188,700	58,100	88,300
Male	278,500	139,200	7,000	168,400	49,400	77,200
Female	40,100	22,600	700	20,300	8,700	11,100
Postsecondary teachers-engineers	33,100	19,800	29,500	5,700	4,100	2,100
Male	30,400	18,500	27,200	4,900	3,900	1,800
Female	2,700	1,400	2,300	800	200	200
Non-S&E occupations, total	6,490,100	1,044,100	1,060,600	4,271,100	888,300	2,673,400
Male	4,181,600	682,600	504,800	2,960,600	545,600	1,705,800
Female	2,308,600	361,500	555,800	1,310,500	342,600	967,600
Managers/administrators	1,994,400	275,600	65,700	1,879,800	233,700	403,600
Male	1,499,700	219,700	47,000	1,416,900	169,200	294,500
Female	494,700	55,800	18,700	463,000	64,500	109,100
Health and related	758,000	103,400	162,700	298,800	37,900	683,500
Male	448,000	62,900	79,000	195,100	15,400	416,900
Female	309,900	40,600	83,600	103,700	22,500	266,600
Teachers, except S&E postsecondary	659,500	150,200	617,000	167,200	60,200	75,900
Male	288,500	71,300	268,100	80,300	34,300	29,300
Female	371,000	78,900	349,000	86,900	25,900	46,600

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Table E-7. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and primary/secondary work activity : 1993

Highest degree, occupation, and sex	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
All degree levels¹ — continued						
Sales/marketing	748,300	75,200	19,500	702,100	81,800	151,500
Male	532,600	51,900	13,500	501,900	56,200	108,500
Female	215,700	23,300	6,000	200,200	25,600	43,000
Other non-S&E occupations	2,330,000	439,700	195,600	1,223,100	474,700	1,358,800
Male	1,412,800	276,700	97,300	766,400	270,500	856,600
Female	917,200	162,900	98,400	456,700	204,200	502,300
Bachelor's						
All occupations, total²	5,727,200	1,666,500	607,800	3,463,100	1,460,400	1,704,900
Male	3,876,700	1,239,700	271,700	2,439,800	989,800	1,102,800
Female	1,850,500	426,800	336,000	1,023,300	470,600	602,100
S&E occupations, total	1,980,300	1,067,700	119,300	906,800	818,800	396,900
Male	1,553,200	866,300	72,200	725,900	610,500	315,000
Female	427,200	201,400	47,200	180,900	208,300	81,900
Scientists, total	1,007,000	454,300	97,100	426,400	584,400	168,100
Male	664,900	306,900	52,200	285,600	399,900	105,300
Female	342,100	147,400	44,900	140,800	184,500	62,800
Computer/math sci, total	676,200	253,900	47,900	302,800	531,700	77,200
Male	457,700	181,500	27,000	201,000	365,000	50,400
Female	218,500	72,300	20,900	101,800	166,700	26,800
Computer/information scientists	637,300	239,200	29,700	289,900	513,800	73,200
Male	434,400	171,600	15,600	193,300	355,200	48,600
Female	202,900	67,600	14,100	96,600	158,700	24,600
Mathematical scientists	21,200	11,600	1,100	9,700	10,300	2,900
Male	12,600	8,000	800	5,700	5,400	1,100
Female	8,600	3,600	200	3,900	5,000	1,800
Postsecondary teachers- computer math sci	17,800	3,000	17,200	3,200	7,600	1,100
Male	10,700	1,900	10,600	1,900	4,500	700
Female	7,100	1,100	6,600	1,300	3,100	400
Life/related scientists, total	131,600	80,700	18,600	53,000	17,300	34,900
Male	82,200	45,100	11,100	37,600	11,200	22,700
Female	49,500	35,600	7,600	15,400	6,100	12,200
Agricultural/food scientists	27,000	14,500	800	15,800	4,200	7,200
Male	20,400	9,800	700	12,900	3,600	5,100
Female	6,600	4,800	100	2,900	600	2,100
Biological scientists	72,300	53,700	3,800	22,600	9,600	17,200
Male	38,100	27,500	2,300	12,700	4,900	9,600
Female	34,200	26,200	1,500	9,900	4,700	7,700
Environmental life scientists	18,000	5,500	2,000	10,800	2,500	8,300
Male	15,600	4,000	1,500	9,600	2,200	7,300
Female	2,400	1,500	400	1,200	300	1,000

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Highest degree, occupation, and sex	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Bachelor's — continued						
Postsecondary teachers- life/related sciences	14,400	7,000	12,200	3,800	1,000	2,100
Male	8,100	3,900	6,600	2,400	600	700
Female	6,300	3,100	5,600	1,500	400	1,500
Physical/related scientists, total ...	130,700	86,800	12,600	46,200	26,000	31,400
Male	96,900	65,300	6,300	35,300	19,900	24,000
Female	33,700	21,600	6,200	10,800	6,100	7,300
Chemistry, except biochemistry	66,500	45,100	1,500	25,300	10,400	16,800
Male	46,400	31,100	700	18,500	7,500	11,500
Female	20,200	14,000	800	6,800	2,900	5,200
Earth scientists/geologists/oceanograp- hers	35,100	24,000	300	13,400	10,500	9,400
Male	30,000	20,700	300	11,500	8,400	8,200
Female	5,100	3,300	100	1,900	2,100	1,200
Physicists/astronomers	8,900	8,200	300	2,000	2,000	800
Male	8,100	7,600	200	1,700	1,900	800
Female	800	600	100	300	100	S
Other physical/related scientists	9,200	5,000	100	3,900	3,000	3,700
Male	6,700	3,300	100	2,900	2,000	3,200
Female	2,500	1,700	S	1,000	1,000	500
Postsecondary teachers- physical/related sci	11,000	4,600	10,300	1,500	100	600
Male	5,700	2,600	5,100	700	100	300
Female	5,200	2,000	5,200	700	S	400
Social/related scientists, total	68,500	32,900	18,000	24,600	9,300	24,700
Male	28,200	15,000	7,900	11,800	3,700	8,200
Female	40,300	17,900	10,100	12,800	5,600	16,400
Economists	10,800	5,800	S	5,300	3,600	3,000
Male	6,500	3,800	S	3,300	1,900	1,700
Female	4,300	1,900	S	2,100	1,700	1,200
Political/related scientists	5,400	3,400	200	2,100	300	1,900
Male	3,000	1,900	200	1,400	200	900
Female	2,400	1,500	S	700	200	1,000
Psychologists	25,800	8,600	7,600	7,400	2,400	14,900
Male	6,900	2,100	2,200	2,300	700	4,000
Female	19,000	6,500	5,400	5,100	1,700	10,900
Sociologists/anthropologists	5,700	3,900	100	2,700	700	1,300
Male	1,700	1,200	100	900	200	300
Female	4,000	2,700	S	1,700	500	1,100
Other social/related scientists	8,700	5,300	900	4,100	1,100	2,800
Male	4,200	2,900	400	2,300	400	1,300
Female	4,500	2,400	400	1,800	700	1,500

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		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Bachelor's — continued						
Postsecondary teachers-social/related sci	12,100	6,000	9,300	2,900	1,200	800
Male	6,000	3,100	5,100	1,500	300	100
Female	6,100	2,900	4,300	1,400	800	700
Engineers, total	973,300	613,400	22,200	480,400	234,500	228,800
Male	888,200	559,300	19,900	440,300	210,700	209,600
Female	85,100	54,000	2,300	40,100	23,800	19,200
Aerospace/related engineers	54,200	38,500	1,200	21,500	16,900	10,600
Male	50,100	35,400	700	20,000	15,500	10,100
Female	4,100	3,000	500	1,400	1,400	500
Chemical engineers	49,900	37,900	900	22,000	7,000	10,900
Male	42,500	32,000	900	17,900	6,000	9,300
Female	7,400	5,900	100	4,000	1,000	1,600
Civil/architectural engineers	139,700	71,800	1,800	86,300	27,000	42,000
Male	126,100	63,900	1,600	79,100	23,100	37,700
Female	13,600	7,900	100	7,200	3,900	4,300
Electrical/related engineers	251,800	173,600	3,800	97,500	91,000	48,600
Male	238,100	163,300	3,600	92,800	85,100	46,900
Female	13,700	10,400	200	4,700	5,900	1,600
Industrial engineers	54,700	29,100	1,000	31,900	14,300	17,100
Male	48,100	26,000	900	27,900	11,600	15,700
Female	6,500	3,200	100	4,000	2,700	1,400
Mechanical engineers	194,400	155,200	1,700	83,300	36,200	34,100
Male	184,000	146,800	1,600	79,000	34,000	32,700
Female	10,400	8,400	100	4,300	2,200	1,500
Other engineers	222,300	105,000	6,500	136,600	41,000	64,900
Male	193,900	90,100	6,000	122,500	34,400	56,700
Female	28,400	14,900	400	14,100	6,600	8,200
Postsecondary teachers-engineers	6,200	2,200	5,400	1,400	1,100	500
Male	5,400	1,900	4,600	1,100	1,000	400
Female	800	300	700	300	100	100
Non-S&E occupations, total	3,746,900	598,800	488,400	2,556,300	641,600	1,308,000
Male	2,323,600	373,500	199,600	1,713,900	379,300	787,900
Female	1,423,300	225,400	288,900	842,400	262,300	520,200
Managers/administrators	1,134,700	134,400	28,500	1,069,800	151,700	229,200
Male	844,900	105,300	18,200	800,600	106,200	173,500
Female	289,800	29,100	10,300	269,200	45,500	55,600
Health and related	235,700	35,000	50,000	82,700	24,700	196,900
Male	76,800	10,200	12,700	31,500	6,600	66,200
Female	158,900	24,800	37,300	51,200	18,100	130,700

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Highest degree, occupation, and sex	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Bachelor's — continued						
Teachers, except S&E postsecondary	299,700	61,700	281,800	75,300	27,500	30,500
Male	115,200	23,900	106,700	30,000	17,200	10,400
Female	184,600	37,800	175,100	45,300	10,300	20,000
Sales/marketing	600,000	60,000	15,700	562,400	65,500	119,600
Male	421,400	41,400	10,200	396,700	45,100	84,700
Female	178,600	18,600	5,500	165,700	20,400	34,900
Other non-S&E occupations	1,476,800	307,800	112,500	766,100	372,100	731,900
Male	865,300	192,700	51,900	455,200	204,100	453,000
Female	611,400	115,100	60,600	311,000	168,000	278,900
Master's						
All occupations, total ²	2,575,600	766,400	521,900	1,475,300	520,800	757,100
Male	1,688,100	563,000	251,200	1,038,900	377,500	410,100
Female	887,500	203,400	270,700	436,400	143,300	347,000
S&E occupations, total	891,300	495,900	119,500	350,500	309,600	208,200
Male	657,300	390,300	66,700	271,600	239,800	126,000
Female	234,000	105,600	52,800	79,000	69,900	82,200
Scientists, total	541,400	254,300	107,700	191,100	216,500	144,100
Male	338,200	169,600	56,100	125,600	155,400	68,000
Female	203,300	84,700	51,500	65,500	61,100	76,100
Computer/math sci, total	263,600	111,000	40,600	105,400	181,800	32,800
Male	185,400	80,400	22,900	77,700	131,300	19,800
Female	78,200	30,600	17,700	27,700	50,500	13,000
Computer/information scientists	212,400	89,400	8,300	92,700	163,700	26,700
Male	156,400	67,100	5,500	69,000	121,200	17,200
Female	56,000	22,400	2,800	23,700	42,600	9,500
Mathematical scientists	18,200	12,800	1,600	6,800	9,300	1,800
Male	10,900	8,200	1,000	4,400	5,400	800
Female	7,200	4,600	600	2,400	3,900	1,000
Postsecondary teachers-computer math sci	33,000	8,700	30,600	5,900	8,800	4,400
Male	18,100	5,100	16,400	4,200	4,800	1,900
Female	15,000	3,600	14,300	1,600	4,000	2,500
Life/related scientists, total	70,400	46,600	19,200	20,700	8,700	13,600
Male	40,500	27,800	8,500	11,900	5,800	8,100
Female	29,900	18,800	10,700	8,800	2,800	5,500
Agricultural/food scientists	9,700	7,300	800	3,600	1,300	2,100
Male	7,500	5,400	500	2,900	1,200	1,800
Female	2,200	1,900	300	700	100	300
Biological scientists	37,100	30,900	1,500	10,000	4,500	7,300
Male	20,700	17,000	600	5,300	2,700	4,400
Female	16,300	13,900	800	4,700	1,800	2,900

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

Table E-7. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and primary/secondary work activity : 1993

Highest degree, occupation, and sex	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Master's — continued						
Environmental life scientists	6,000	2,800	300	3,300	1,700	1,900
Male	4,600	2,100	300	2,600	1,300	1,300
Female	1,300	700	S	700	400	500
Postsecondary teachers- life/related sciences	17,700	5,500	16,600	3,800	1,100	2,400
Male	7,700	3,300	7,000	1,000	700	600
Female	10,000	2,300	9,700	2,700	500	1,800
Physical/related scientists, total ...	72,600	51,500	11,500	25,300	14,700	13,400
Male	55,600	39,300	7,900	20,000	11,900	10,300
Female	17,000	12,200	3,600	5,300	2,700	3,100
Chemistry, except biochemistry	21,100	17,100	900	7,500	2,200	3,500
Male	14,800	11,800	400	5,600	1,800	2,500
Female	6,400	5,300	500	1,900	400	1,000
Earth scientists/geologists/oceanograp- hers	23,900	17,900	500	9,200	6,500	5,500
Male	19,200	14,500	300	7,900	5,000	4,200
Female	4,700	3,300	100	1,300	1,500	1,200
Physicists/astronomers	11,000	8,600	900	2,700	3,300	1,900
Male	9,800	7,600	800	2,300	3,100	1,700
Female	1,200	1,000	100	400	200	200
Other physical/related scientists	6,400	3,300	200	3,900	1,700	1,700
Male	4,500	2,300	100	2,900	1,300	1,100
Female	1,900	1,000	100	1,000	400	600
Postsecondary teachers- physical/related sci	10,200	4,600	9,000	1,900	1,000	900
Male	7,300	3,000	6,200	1,300	800	700
Female	2,900	1,500	2,800	700	200	100
Social/related scientists, total	134,900	45,300	36,400	39,700	11,300	84,300
Male	56,600	22,200	16,900	16,000	6,300	29,800
Female	78,200	23,100	19,500	23,700	5,000	54,500
Economists	13,500	7,800	300	6,500	3,700	4,700
Male	10,000	5,700	300	4,900	2,700	3,400
Female	3,400	2,100	S	1,600	1,000	1,300
Political/related scientists	1,900	1,200	100	700	200	700
Male	1,300	1,000	100	400	200	500
Female	500	300	100	300	S	200
Psychologists	76,400	13,400	11,300	23,800	2,700	68,200
Male	24,300	4,400	3,700	7,200	1,400	21,100
Female	52,100	8,900	7,700	16,600	1,300	47,100
Sociologists/anthropologists	6,300	5,000	600	2,500	1,200	1,300
Male	2,800	2,400	200	1,400	600	500
Female	3,500	2,600	300	1,100	600	900

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

Table E-7. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and primary/secondary work activity : 1993

Highest degree, occupation, and sex	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Master's — continued						
Other social/related scientists	11,200	6,400	1,000	3,100	1,800	5,500
Male	4,500	3,100	100	700	400	2,600
Female	6,700	3,200	900	2,400	1,400	2,900
Postsecondary teachers- social/related sci	25,600	11,500	23,100	3,100	1,700	3,900
Male	13,700	5,500	12,600	1,400	900	1,700
Female	11,900	6,000	10,500	1,700	800	2,200
Engineers, total	349,900	241,600	11,900	159,400	93,100	64,100
Male	319,100	220,700	10,600	146,000	84,400	58,000
Female	30,800	20,900	1,300	13,400	8,700	6,100
Aerospace/related engineers	26,200	20,800	200	9,800	8,300	4,000
Male	24,400	19,300	200	9,500	7,600	3,600
Female	1,800	1,500	S	300	800	500
Chemical engineers	21,800	18,000	500	6,700	3,700	4,300
Male	17,900	15,000	400	5,300	3,000	3,500
Female	3,900	3,000	100	1,400	700	800
Civil/architectural engineers	47,800	28,900	800	28,700	10,200	13,100
Male	43,900	26,200	800	26,500	9,000	12,300
Female	3,900	2,700	S	2,200	1,200	800
Electrical/related engineers	98,500	77,000	1,400	34,300	38,400	10,200
Male	93,300	73,100	1,200	33,000	36,000	9,700
Female	5,200	3,900	200	1,300	2,400	500
Industrial engineers	15,100	6,400	100	9,600	5,300	3,900
Male	13,500	5,600	100	8,700	4,500	3,500
Female	1,600	800	S	900	900	300
Mechanical engineers	51,800	43,700	500	20,900	11,000	7,200
Male	48,500	41,200	500	19,500	10,100	6,900
Female	3,300	2,500	S	1,400	900	300
Other engineers	79,600	43,100	900	47,300	14,200	20,300
Male	69,600	36,900	700	41,600	12,400	17,600
Female	10,000	6,200	200	5,700	1,800	2,700
Postsecondary teachers-engineers	9,100	3,700	7,500	2,200	1,900	1,100
Male	8,100	3,400	6,600	1,900	1,900	900
Female	1,000	400	900	300	100	100
Non-S&E occupations, total	1,684,300	270,500	402,300	1,124,800	211,100	548,900
Male	1,030,800	172,700	184,500	767,300	137,700	284,100
Female	653,500	97,800	217,900	357,400	73,400	264,800
Managers/administrators	693,200	94,800	21,000	657,500	73,300	138,300
Male	518,500	75,000	15,200	491,200	55,100	94,200
Female	174,700	19,700	5,800	166,300	18,200	44,100

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

Table E-7. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and primary/secondary work activity : 1993

Highest degree, occupation, and sex	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Master's — continued						
Health and related	83,600	10,900	25,100	31,500	4,500	67,700
Male	20,800	4,300	3,600	9,000	2,000	15,000
Female	62,800	6,600	21,500	22,500	2,500	52,600
Teachers, except S&E postsecondary	301,900	60,000	282,900	78,100	30,200	34,800
Male	134,800	28,900	126,700	41,000	15,200	12,000
Female	167,100	31,100	156,200	37,100	14,900	22,700
Sales/marketing	132,400	13,700	3,000	124,800	15,100	26,800
Male	97,400	9,200	2,800	92,400	10,200	19,400
Female	35,000	4,500	300	32,500	4,900	7,400
Other non-S&E occupations	473,200	91,100	70,200	232,800	88,000	281,400
Male	259,300	55,200	36,200	133,700	55,100	143,400
Female	213,900	35,800	34,100	99,100	32,900	138,000
Doctorate						
All occupations, total²	634,800	382,100	216,800	237,700	70,400	142,200
Male	499,400	309,300	163,600	190,700	59,900	100,400
Female	135,400	72,800	53,200	47,000	10,600	41,800
S&E occupations, total	395,600	294,000	152,600	86,000	51,900	70,100
Male	311,500	240,000	119,500	66,000	45,000	46,000
Female	84,100	54,000	33,100	20,000	7,000	24,100
Scientists, total	330,500	238,200	135,000	73,300	39,000	64,100
Male	250,000	187,300	102,600	54,100	32,800	40,200
Female	80,600	50,900	32,300	19,200	6,200	23,900
Computer/math sci, total	48,700	33,300	24,200	9,200	17,800	3,200
Male	40,400	27,800	19,800	7,500	15,200	2,800
Female	8,300	5,500	4,300	1,700	2,600	400
Computer/information scientists	17,500	11,200	900	4,900	12,400	1,100
Male	15,000	9,700	700	4,200	10,800	1,000
Female	2,500	1,500	200	800	1,700	100
Mathematical scientists	7,400	6,400	800	1,600	2,800	1,000
Male	6,000	5,300	700	1,200	2,200	1,000
Female	1,400	1,100	100	300	600	100
Postsecondary teachers- computer math sci	23,800	15,700	22,500	2,700	2,600	1,000
Male	19,400	12,800	18,400	2,100	2,300	800
Female	4,400	2,900	4,100	600	400	200
Life/related scientists, total	98,100	86,100	32,900	19,400	5,500	9,000
Male	73,300	64,500	25,400	14,900	4,200	7,000
Female	24,800	21,600	7,600	4,400	1,300	2,000
Agricultural/food scientists	7,800	7,200	400	1,900	700	1,000
Male	6,800	6,200	300	1,700	600	900
Female	1,100	1,000	100	200	100	100

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

Table E-7. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and primary/secondary work activity : 1993

Highest degree, occupation, and sex	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Doctorate — continued						
Biological scientists	56,400	53,900	3,800	11,900	4,200	4,800
Male	40,000	38,000	2,600	9,100	3,000	3,400
Female	16,400	15,900	1,300	2,800	1,100	1,300
Environmental life scientists	900	700	100	300	100	200
Male	700	500	100	300	100	100
Female	200	200	S	100	S	S
Postsecondary teachers- life/related sciences	33,000	24,300	28,700	5,200	600	3,100
Male	25,900	19,700	22,500	3,900	500	2,500
Female	7,100	4,500	6,200	1,300	100	600
Physical/related scientists, total ...	77,000	65,700	24,100	15,000	11,000	4,800
Male	68,300	58,900	21,100	13,200	9,900	3,800
Female	8,700	6,800	3,000	1,800	1,200	1,000
Chemistry, except biochemistry	25,800	24,000	400	5,500	2,300	1,800
Male	22,300	20,900	300	4,800	1,900	1,300
Female	3,500	3,100	100	800	500	500
Earth scientists/geologists/oceanograp- hers	9,800	9,400	300	2,300	2,700	800
Male	8,900	8,500	200	2,100	2,500	700
Female	900	900	S	200	200	100
Physicists/astronomers	15,000	13,800	600	2,700	4,400	1,100
Male	13,900	12,900	600	2,500	4,100	800
Female	1,100	800	100	200	300	300
Other physical/related scientists	2,000	1,600	S	800	300	300
Male	1,700	1,500	S	600	300	200
Female	300	100	S	200	S	S
Postsecondary teachers- physical/related sci	24,300	16,900	22,700	3,600	1,200	700
Male	21,400	15,000	19,900	3,300	1,100	600
Female	2,900	1,900	2,800	400	100	100
Social/related scientists, total	106,700	53,100	53,700	29,700	4,600	47,100
Male	68,000	36,100	36,300	18,500	3,500	26,700
Female	38,700	17,000	17,400	11,200	1,100	20,500
Economists	6,300	4,900	200	2,200	900	1,700
Male	5,000	3,800	200	1,800	700	1,500
Female	1,200	1,100	S	400	200	200
Political/related scientists	1,200	900	300	400	S	300
Male	700	500	300	200	S	200
Female	400	400	S	200	S	100
Psychologists	44,300	8,300	6,000	18,000	1,400	39,900
Male	23,800	4,800	2,400	10,300	1,100	21,300
Female	20,500	3,500	3,600	7,700	300	18,600

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

Table E-7. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and primary/secondary work activity : 1993

Highest degree, occupation, and sex	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Doctorate — continued						
Sociologists/anthropologists	3,100	2,700	600	900	500	400
Male	1,800	1,500	400	400	400	300
Female	1,300	1,200	300	500	100	100
Other social/related scientists	3,000	2,400	400	1,000	700	600
Male	2,100	1,600	400	700	400	500
Female	900	800	S	300	300	100
Postsecondary teachers- social/related sci	48,900	33,900	46,200	7,300	1,100	4,200
Male	34,500	23,900	32,700	5,200	1,000	2,800
Female	14,400	10,000	13,500	2,100	100	1,400
Engineers, total	65,000	55,800	17,600	12,700	12,900	6,000
Male	61,500	52,700	16,900	11,900	12,200	5,700
Female	3,500	3,100	700	800	700	200
Aerospace/related engineers	3,600	3,400	S	600	1,500	100
Male	3,500	3,300	S	500	1,500	100
Female	100	S	S	S	S	S
Chemical engineers	6,000	5,800	200	1,100	1,100	300
Male	5,700	5,500	200	1,000	1,000	300
Female	400	400	S	100	100	S
Civil/architectural engineers	3,200	2,500	100	900	1,100	900
Male	3,100	2,400	100	900	1,000	900
Female	100	100	S	S	S	S
Electrical/related engineers	11,600	10,500	200	2,500	3,100	1,000
Male	11,200	10,100	200	2,400	2,900	1,000
Female	400	400	S	100	100	S
Industrial engineers	400	200	S	200	100	100
Male	400	200	S	200	100	100
Female	S	S	S	S	S	S
Mechanical engineers	6,500	6,100	100	900	2,100	400
Male	6,300	5,900	100	800	2,000	400
Female	200	200	S	100	100	S
Other engineers	16,000	13,400	300	4,400	2,900	2,700
Male	14,600	12,100	300	4,000	2,600	2,500
Female	1,400	1,300	S	400	300	200
Postsecondary teachers-engineers	17,700	13,900	16,700	2,000	1,100	500
Male	16,900	13,200	15,900	1,900	1,000	500
Female	900	700	700	100	S	S
Non-S&E occupations, total	239,200	88,100	64,300	151,700	18,500	72,100
Male	187,900	69,300	44,100	124,700	14,900	54,400
Female	51,300	18,800	20,200	27,000	3,600	17,700

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

Table E-7. Employed U.S. scientists and engineers, by highest degree attained, occupation, sex, and primary/secondary work activity : 1993

Highest degree, occupation, and sex	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Doctorate — continued						
Managers/administrators	119,000	43,400	12,100	107,100	7,200	18,200
Male	99,300	37,400	9,700	89,400	6,400	13,700
Female	19,700	6,000	2,500	17,700	800	4,600
Health and related	21,100	6,800	3,800	6,900	1,000	16,800
Male	15,300	4,900	2,600	5,300	500	12,600
Female	5,800	1,900	1,200	1,600	500	4,100
Teachers, except S&E postsecondary	46,900	25,200	42,500	11,100	2,000	6,600
Male	31,100	16,100	27,800	7,400	1,300	4,400
Female	15,900	9,000	14,700	3,600	700	2,200
Sales/marketing	7,400	1,500	800	6,500	1,100	1,000
Male	5,900	1,300	600	5,100	900	800
Female	1,500	200	200	1,300	200	200
Other non-S&E occupations	44,800	11,300	5,100	20,200	7,300	29,500
Male	36,300	9,500	3,500	17,400	5,800	22,900
Female	8,500	1,800	1,600	2,800	1,500	6,600

1 Includes professional degrees
 2 Total excludes 37,000 individuals who reported never having worked.

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 are employed in an S&E occupation.
 Figures are rounded to nearest hundred. Details may not add to total because of rounding.
 Sum of primary/secondary work activity categories exceeds total because of multiple responses.

KEY: S = Suppressed for reasons of confidentiality and/or data reliability

SOURCE: National Science Foundation/Science Resources Studies Division, 1993 SESTAT (Scientists and Engineers Statistical Data System)