

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>All degree levels<sup>1</sup></b>										
<b>All occupations, total<sup>2</sup></b> .....	12,512,000	314,500	1,373,900	1,379,600	1,669,300	1,835,100	1,861,500	1,445,700	893,700	1,738,800
Male .....	8,097,900	141,600	728,900	842,500	1,019,100	1,125,300	1,245,500	1,003,600	663,000	1,328,500
Female .....	4,414,100	172,900	645,000	537,000	650,200	709,800	616,000	442,100	230,700	410,300
<b>S&amp;E occupations, total</b> .....	3,899,000	85,000	435,200	529,500	616,100	559,400	482,300	389,800	256,900	544,700
Male .....	3,000,600	49,500	303,500	389,600	445,800	416,600	374,300	311,700	218,900	490,600
Female .....	898,400	35,500	131,700	139,800	170,300	142,800	108,000	78,100	38,000	54,100
<b>Scientists, total</b> .....	2,261,500	58,100	266,400	309,900	359,200	346,300	310,100	232,900	151,100	227,400
Male .....	1,506,700	29,000	164,900	204,500	223,600	223,400	208,900	159,400	115,100	177,900
Female .....	754,800	29,100	101,500	105,300	135,700	122,900	101,300	73,500	36,000	49,500
<b>Computer/math sci, total</b> .....	1,129,700	20,500	122,800	181,100	218,900	191,500	155,900	114,100	59,800	65,100
Male .....	809,200	13,900	92,000	129,600	148,600	133,100	109,500	81,200	49,100	52,200
Female .....	320,500	6,600	30,800	51,500	70,300	58,400	46,400	33,000	10,700	12,800
Computer/information scientists .....	1,003,400	18,000	110,600	169,100	204,000	177,200	138,000	94,700	47,400	44,500
Male .....	727,700	12,600	84,400	122,800	139,900	124,300	100,600	68,100	39,300	35,700
Female .....	275,600	5,400	26,200	46,300	64,100	52,900	37,300	26,600	8,000	8,800
Mathematical scientists .....	42,400	400	4,000	5,200	5,100	5,400	7,000	7,000	2,800	5,400
Male .....	27,200	100	1,900	2,900	2,800	3,300	4,100	5,200	2,700	4,200
Female .....	15,200	300	2,200	2,300	2,300	2,200	3,000	1,800	100	1,100
Postsecondary teachers- computer math sci .....	84,000	2,100	8,100	6,800	9,800	8,900	10,900	12,500	9,700	15,300
Male .....	54,300	1,200	5,800	3,900	5,900	5,500	4,800	7,800	7,100	12,300
Female .....	29,700	900	2,400	2,800	3,900	3,400	6,100	4,600	2,600	2,900
<b>Life/related scientists, total</b> .....	387,300	13,000	52,800	45,200	53,700	56,100	52,200	38,600	28,500	47,200
Male .....	242,700	5,500	26,800	23,900	27,800	34,400	37,300	27,100	21,300	38,600
Female .....	144,500	7,500	26,000	21,300	25,800	21,700	14,900	11,500	7,200	8,600
Agricultural/food scientists .....	50,500	700	3,900	5,400	6,900	10,500	7,800	3,700	3,200	8,300
Male .....	37,200	300	2,200	3,700	4,500	6,300	6,900	3,100	2,800	7,500
Female .....	13,200	400	1,700	1,700	2,400	4,200	900	600	500	800

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>All degree levels<sup>1</sup> — continued</b>										
Biological scientists .....	221,000	9,800	39,900	33,100	32,900	30,200	25,300	19,500	12,600	17,700
Male .....	126,500	4,200	20,400	16,200	16,800	17,700	16,600	12,700	9,000	12,800
Female .....	94,500	5,600	19,500	16,900	16,100	12,500	8,800	6,800	3,500	4,900
Environmental life scientists .....	23,400	S	1,500	500	3,300	2,600	5,600	3,600	2,400	3,900
Male .....	19,800	S	700	300	1,700	2,200	5,600	3,600	1,900	3,900
Female .....	3,700	S	800	300	1,600	400	S	S	500	S
Postsecondary teachers- life/related sciences .....	92,400	2,400	7,600	6,200	10,600	12,800	13,400	11,800	10,300	17,400
Male .....	59,300	1,000	3,500	3,700	4,800	8,300	8,200	7,700	7,600	14,500
Female .....	33,100	1,400	4,000	2,500	5,700	4,500	5,200	4,100	2,700	2,900
<b>Physical/related scientists, total ...</b>	<b>343,500</b>	<b>10,200</b>	<b>39,500</b>	<b>42,700</b>	<b>46,700</b>	<b>45,600</b>	<b>41,600</b>	<b>28,300</b>	<b>28,400</b>	<b>60,500</b>
Male .....	264,400	5,500	27,600	31,100	33,100	33,200	32,900	23,500	25,100	52,500
Female .....	79,100	4,700	12,000	11,600	13,600	12,400	8,700	4,800	3,300	8,000
Chemistry, except biochemistry .....	147,100	3,200	19,100	18,300	20,300	18,300	19,200	12,000	11,100	25,600
Male .....	105,600	1,300	11,900	12,000	14,500	12,300	14,200	9,800	9,200	20,500
Female .....	41,500	1,900	7,100	6,300	5,800	6,000	5,100	2,300	1,900	5,100
Earth scientists/geologists/ oceanographers .....	82,100	800	6,300	10,300	14,700	13,900	11,300	5,600	5,600	13,600
Male .....	68,500	400	5,300	8,200	11,200	11,100	9,300	4,900	5,200	12,800
Female .....	13,700	400	1,000	2,200	3,500	2,800	2,000	700	500	700
Physicists/astronomers .....	38,400	600	4,300	6,600	3,900	3,800	3,800	3,000	3,100	9,300
Male .....	34,600	500	3,800	5,800	2,800	3,500	3,600	2,800	2,800	9,000
Female .....	3,800	100	500	800	1,100	300	200	200	200	300
Other physical/related scientists .....	18,700	600	3,700	2,800	2,200	3,900	2,000	1,500	1,100	900
Male .....	12,700	400	2,300	1,800	1,100	2,400	1,300	1,400	1,100	800
Female .....	6,000	200	1,400	1,100	1,100	1,400	600	100	S	S

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>All degree levels<sup>1</sup> — continued</b>										
Postsecondary teachers- physical/related sci .....	57,200	4,900	6,200	4,600	5,600	5,700	5,300	6,200	7,500	11,300
Male .....	43,100	2,800	4,300	3,400	3,400	3,800	4,500	4,600	6,800	9,400
Female .....	14,200	2,000	1,900	1,200	2,200	1,900	800	1,500	700	1,900
<b>Social/related scientists, total</b> .....	<b>401,000</b>	<b>14,500</b>	<b>51,300</b>	<b>40,900</b>	<b>40,000</b>	<b>53,100</b>	<b>60,500</b>	<b>51,900</b>	<b>34,300</b>	<b>54,500</b>
Male .....	190,300	4,200	18,500	19,900	14,100	22,800	29,100	27,700	19,500	34,500
Female .....	210,600	10,300	32,800	20,900	25,900	30,400	31,300	24,300	14,800	20,000
Economists .....	50,800	1,600	6,300	7,600	8,500	7,000	6,600	4,500	2,300	6,400
Male .....	33,200	400	2,600	5,500	4,800	4,400	4,500	3,300	2,000	5,700
Female .....	17,600	1,200	3,700	2,100	3,700	2,600	2,100	1,200	300	700
Political/related scientists .....	11,000	2,000	4,400	800	1,000	100	200	1,100	600	800
Male .....	6,300	800	2,600	400	200	100	S	1,000	500	800
Female .....	4,700	1,200	1,800	400	800	S	200	100	S	S
Psychologists .....	205,800	5,500	22,300	21,100	17,500	31,300	35,100	29,200	19,600	24,200
Male .....	74,400	1,300	5,300	6,600	3,500	10,700	15,600	11,900	8,800	10,500
Female .....	131,500	4,100	17,100	14,400	14,000	20,600	19,500	17,300	10,800	13,600
Sociologists/anthropologists .....	19,500	2,000	4,000	1,900	1,700	1,900	3,000	2,000	400	2,700
Male .....	7,900	400	1,500	1,100	300	800	1,500	1,100	200	1,000
Female .....	11,600	1,600	2,500	800	1,400	1,100	1,500	900	200	1,700
Other social/related scientists .....	13,500	1,500	3,000	1,400	200	2,100	2,500	1,200	500	1,000
Male .....	5,000	300	1,400	700	100	1,000	400	200	300	800
Female .....	8,500	1,300	1,700	800	100	1,100	2,100	1,100	100	200
Postsecondary teachers- social/related sci .....	100,300	1,900	11,200	8,100	11,100	10,700	13,000	13,800	10,900	19,500
Male .....	63,500	1,000	5,100	5,700	5,200	5,800	7,200	10,100	7,600	15,800
Female .....	36,800	900	6,100	2,500	5,900	4,900	5,800	3,700	3,300	3,700
<b>Engineers, total</b> .....	<b>1,637,500</b>	<b>26,900</b>	<b>168,800</b>	<b>219,600</b>	<b>256,800</b>	<b>213,100</b>	<b>172,200</b>	<b>156,900</b>	<b>105,800</b>	<b>317,300</b>
Male .....	1,493,900	20,500	138,700	185,100	222,200	193,200	165,500	152,300	103,800	312,700
Female .....	143,600	6,500	30,100	34,500	34,700	19,900	6,700	4,600	2,000	4,600

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>All degree levels<sup>1</sup> — continued</b>										
Aerospace/related engineers .....	99,400	1,100	5,800	9,400	14,900	13,500	6,200	8,500	8,700	31,300
Male .....	92,000	900	4,800	8,000	13,000	12,900	5,600	8,400	8,500	29,900
Female .....	7,400	200	1,000	1,400	1,900	600	500	200	200	1,400
Chemical engineers .....	93,900	2,800	11,900	11,600	13,400	11,000	10,200	7,700	5,100	20,200
Male .....	81,700	1,800	8,200	8,800	11,000	10,100	9,900	7,700	4,900	19,400
Female .....	12,200	1,000	3,600	2,800	2,500	900	300	S	200	800
Civil/architectural engineers .....	245,600	3,900	28,200	29,200	35,800	30,700	27,200	23,400	14,300	52,900
Male .....	223,700	3,000	22,800	24,900	31,100	28,300	25,900	21,700	13,900	52,000
Female .....	22,000	900	5,400	4,300	4,600	2,500	1,300	1,600	500	900
Electrical/related engineers .....	430,500	5,200	38,000	63,000	69,900	59,400	46,600	44,600	28,000	75,900
Male .....	402,800	4,100	33,400	54,900	63,100	55,800	44,900	43,600	27,600	75,400
Female .....	27,800	1,100	4,700	8,100	6,800	3,600	1,700	900	400	500
Industrial engineers .....	93,800	1,600	12,500	13,200	16,800	12,800	8,900	8,300	6,000	13,700
Male .....	82,900	1,200	9,700	10,400	13,900	11,300	8,600	8,300	5,900	13,700
Female .....	10,900	400	2,800	2,800	3,000	1,400	400	S	100	S
Mechanical engineers .....	319,500	6,200	38,300	47,400	53,700	35,200	32,100	27,400	18,500	60,800
Male .....	301,100	5,200	33,200	43,000	49,200	33,100	31,300	27,100	18,200	60,700
Female .....	18,400	1,000	5,000	4,400	4,500	2,100	800	300	200	100
Other engineers .....	313,600	4,400	30,400	42,000	47,700	46,600	36,100	32,300	21,800	52,200
Male .....	272,300	3,100	23,300	31,900	37,200	38,400	34,500	31,000	21,400	51,400
Female .....	41,300	1,400	7,000	10,000	10,500	8,200	1,600	1,300	400	800
Postsecondary teachers-engineers .....	41,300	1,700	3,800	3,800	4,700	4,000	4,900	4,700	3,500	10,300
Male .....	37,600	1,100	3,300	3,200	3,800	3,300	4,800	4,400	3,400	10,300
Female .....	3,700	500	600	600	900	700	100	300	S	S
<b>Non-S&amp;E occupations, total .....</b>	<b>8,613,100</b>	<b>229,500</b>	<b>938,700</b>	<b>850,100</b>	<b>1,053,200</b>	<b>1,275,600</b>	<b>1,379,200</b>	<b>1,055,800</b>	<b>636,800</b>	<b>1,194,100</b>
Male .....	5,097,300	92,100	425,400	452,900	573,300	708,600	871,200	691,900	444,100	837,800
Female .....	3,515,700	137,400	513,300	397,200	479,900	567,000	508,000	363,900	192,700	356,200

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>All degree levels<sup>1</sup> — continued</b>										
Managers/administrators .....	2,321,300	17,500	119,300	190,700	283,100	367,800	428,500	351,400	215,400	347,600
Male .....	1,663,700	8,700	59,500	117,500	181,500	238,700	309,500	278,900	173,700	295,800
Female .....	657,600	8,800	59,800	73,200	101,600	129,200	119,000	72,500	41,700	51,800
Health and related .....	920,300	16,200	91,800	109,200	130,200	180,000	151,500	93,800	55,100	92,500
Male .....	489,000	4,900	35,700	48,500	65,600	89,200	97,900	53,400	32,400	61,300
Female .....	431,300	11,200	56,200	60,800	64,600	90,700	53,600	40,400	22,700	31,200
Teachers, except S&E postsecondary .....	985,500	28,500	107,800	74,500	93,900	120,500	157,000	141,800	87,800	173,800
Male .....	388,600	7,300	39,700	24,000	31,900	35,800	58,900	61,600	43,700	85,600
Female .....	596,900	21,200	68,100	50,400	62,000	84,700	98,100	80,100	44,000	88,200
Sales/marketing .....	1,085,700	35,100	144,200	127,800	131,800	157,300	151,400	110,400	71,800	156,000
Male .....	732,300	16,600	79,200	77,400	83,500	97,900	110,300	85,300	57,500	124,600
Female .....	353,400	18,500	65,000	50,400	48,300	59,400	41,100	25,100	14,200	31,400
Other non-S&E occupations <sup>3</sup> .....	3,300,300	132,200	475,500	347,900	414,200	450,000	490,900	358,500	206,800	424,200
Male .....	1,823,800	54,600	211,400	185,500	210,800	247,100	294,600	212,600	136,700	270,600
Female .....	1,476,500	77,600	264,200	162,400	203,500	202,900	196,300	145,800	70,100	153,600
<b>Bachelor's</b>										
<b>All occupations, total<sup>2</sup> .....</b>	<b>7,456,800</b>	<b>306,900</b>	<b>1,113,500</b>	<b>912,600</b>	<b>995,200</b>	<b>1,057,900</b>	<b>991,100</b>	<b>699,300</b>	<b>413,600</b>	<b>967,000</b>
Male .....	4,731,300	137,400	594,100	558,100	609,800	640,900	667,300	479,600	306,900	737,200
Female .....	2,725,500	169,400	519,300	354,500	385,300	417,000	323,800	219,600	106,700	229,800
<b>S&amp;E occupations, total .....</b>	<b>2,252,100</b>	<b>81,200</b>	<b>331,100</b>	<b>324,200</b>	<b>365,300</b>	<b>309,500</b>	<b>239,300</b>	<b>186,100</b>	<b>108,400</b>	<b>306,900</b>
Male .....	1,776,100	47,000	234,200	245,400	271,700	240,200	197,300	154,800	99,900	285,500
Female .....	476,000	34,200	96,900	78,800	93,600	69,200	42,100	31,300	8,500	21,400
<b>Scientists, total .....</b>	<b>1,135,500</b>	<b>55,700</b>	<b>197,200</b>	<b>175,800</b>	<b>195,700</b>	<b>171,600</b>	<b>130,800</b>	<b>89,100</b>	<b>44,900</b>	<b>74,800</b>
Male .....	757,900	27,700	124,800	119,600	123,100	114,400	93,400	60,800	37,500	56,600
Female .....	377,700	28,000	72,500	56,200	72,600	57,200	37,500	28,300	7,400	18,200

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Bachelor's — continued</b>										
<b>Computer/math sci, total</b> .....	731,900	19,500	95,500	124,100	150,000	126,200	93,600	65,000	28,600	29,300
Male .....	516,300	13,200	71,700	88,300	98,300	86,900	66,500	44,900	24,400	22,000
Female .....	215,600	6,200	23,800	35,800	51,800	39,300	27,000	20,200	4,200	7,400
Computer/information scientists .....	698,700	17,200	88,400	121,900	146,600	121,800	89,600	61,900	26,600	24,700
Male .....	496,400	12,000	67,400	87,300	96,500	84,400	64,300	43,100	22,600	18,900
Female .....	202,300	5,200	21,100	34,600	50,200	37,300	25,300	18,800	4,000	5,800
Mathematical scientists .....	16,400	300	2,600	1,300	1,300	2,500	3,000	1,800	1,000	2,600
Male .....	10,400	100	1,100	500	1,000	1,600	1,700	1,700	900	1,700
Female .....	6,000	300	1,500	800	300	900	1,200	100	100	900
Postsecondary teachers- computer math sci .....	16,800	2,000	4,500	900	2,100	1,900	1,000	1,400	1,100	2,000
Male .....	9,500	1,200	3,200	400	800	900	500	100	900	1,400
Female .....	7,300	800	1,300	400	1,300	1,000	500	1,300	200	600
<b>Life/related scientists, total</b> .....	158,100	12,700	41,800	21,300	17,900	19,000	15,700	10,100	7,000	12,700
Male .....	90,400	5,400	20,900	10,900	8,200	10,400	12,700	6,900	5,600	9,500
Female .....	67,800	7,300	20,900	10,400	9,700	8,600	3,000	3,300	1,400	3,200
Agricultural/food scientists .....	25,800	700	2,500	3,600	3,400	5,400	3,700	1,200	800	4,300
Male .....	18,300	300	1,400	2,700	1,800	3,300	3,600	800	700	3,700
Female .....	7,600	400	1,000	1,000	1,600	2,100	200	500	200	700
Biological scientists .....	94,300	9,600	32,200	15,000	9,200	9,200	5,900	5,900	3,400	3,900
Male .....	46,800	4,100	16,200	6,800	4,300	4,300	3,100	3,400	2,900	1,700
Female .....	47,500	5,500	16,100	8,200	4,800	4,900	2,800	2,500	500	2,100
Environmental life scientists .....	16,900	S	1,200	300	2,500	1,600	4,900	2,000	1,200	3,100
Male .....	14,200	S	600	200	1,500	1,300	4,900	2,000	700	3,100
Female .....	2,700	S	700	200	1,100	300	S	S	500	S
Postsecondary teachers- life/related sciences .....	21,100	2,300	5,800	2,300	2,800	2,700	1,200	900	1,600	1,400
Male .....	11,100	1,000	2,700	1,200	600	1,500	1,200	600	1,300	1,000
Female .....	9,900	1,300	3,200	1,100	2,200	1,200	S	300	200	400

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Bachelor's — continued</b>										
<b>Physical/related scientists, total</b> .....	163,300	10,000	30,800	21,300	21,300	20,200	15,700	9,100	8,600	26,200
Male .....	117,600	5,400	21,500	15,300	14,600	14,100	11,100	7,200	7,400	21,000
Female .....	45,600	4,600	9,300	6,000	6,600	6,200	4,500	1,900	1,200	5,200
Chemistry, except biochemistry .....	88,100	3,200	16,600	11,500	11,300	10,600	10,300	6,300	4,600	13,700
Male .....	59,000	1,300	10,200	7,100	7,900	7,000	6,800	5,000	3,900	9,800
Female .....	29,100	1,900	6,300	4,400	3,400	3,600	3,500	1,300	700	3,900
Earth scientists/geologists/ oceanographers .....	42,100	800	4,800	5,400	7,300	7,100	3,500	2,200	3,400	7,600
Male .....	35,000	400	4,000	4,400	5,600	5,600	3,100	1,800	2,900	7,000
Female .....	7,100	400	700	1,000	1,700	1,500	400	300	500	600
Physicists/astronomers .....	10,200	600	2,100	1,900	500	700	400	200	100	3,900
Male .....	9,400	400	2,000	1,900	300	700	300	100	100	3,700
Female .....	800	100	100	S	200	S	100	100	S	300
Other physical/related scientists .....	9,000	600	3,100	1,000	1,100	1,300	1,200	300	300	100
Male .....	6,000	400	2,100	600	800	700	800	300	300	100
Female .....	3,000	200	1,000	400	300	600	500	S	S	S
Postsecondary teachers- physical/related sci .....	13,900	4,800	4,300	1,600	1,100	600	200	200	200	900
Male .....	8,200	2,800	3,200	1,300	100	100	200	S	200	500
Female .....	5,700	2,000	1,200	300	1,000	500	100	200	S	500
<b>Social/related scientists, total</b> .....	82,200	13,500	29,100	9,100	6,400	6,200	5,900	4,800	600	6,600
Male .....	33,600	3,600	10,700	5,200	2,000	3,000	3,000	1,900	S	4,200
Female .....	48,600	9,900	18,400	3,900	4,500	3,200	2,900	2,800	600	2,400
Economists .....	18,500	1,600	3,600	2,200	3,100	1,500	2,300	1,000	100	3,100
Male .....	10,000	400	1,100	1,500	1,700	1,000	1,400	200	S	2,700
Female .....	8,600	1,200	2,500	800	1,400	500	900	700	100	500

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Bachelor's — continued</b>										
Political/related scientists .....	6,100	1,900	2,600	S	600	S	S	500	S	500
Male .....	3,300	600	1,600	S	S	S	S	500	S	500
Female .....	2,800	1,200	900	S	600	S	S	S	S	S
Psychologists .....	32,500	5,300	12,600	5,100	2,200	3,200	1,800	1,600	S	800
Male .....	10,700	1,300	3,600	2,200	300	1,100	1,200	700	S	300
Female .....	21,800	3,900	9,000	2,900	1,900	2,000	700	900	S	500
Sociologists/anthropologists .....	9,600	2,000	2,700	900	500	700	600	700	S	1,600
Male .....	2,900	400	1,000	600	S	300	300	200	S	200
Female .....	6,600	1,600	1,700	300	500	500	300	500	S	1,400
Other social/related scientists .....	5,500	1,300	2,400	500	S	200	500	500	S	100
Male .....	2,200	S	1,300	500	S	200	S	S	S	100
Female .....	3,300	1,300	1,100	S	S	S	500	500	S	S
Postsecondary teachers- social/related sci .....	10,100	1,500	5,300	400	100	500	700	600	500	500
Male .....	4,500	800	2,100	400	S	300	200	300	S	500
Female .....	5,500	700	3,200	S	100	200	500	300	500	S
<b>Engineers, total</b> .....	<b>1,116,600</b>	<b>25,600</b>	<b>133,900</b>	<b>148,400</b>	<b>169,700</b>	<b>137,900</b>	<b>108,500</b>	<b>97,000</b>	<b>63,600</b>	<b>232,100</b>
Male .....	1,018,200	19,300	109,400	125,800	148,600	125,800	103,900	94,000	62,400	228,900
Female .....	98,300	6,200	24,400	22,600	21,000	12,000	4,600	3,000	1,100	3,200
Aerospace/related engineers .....	61,200	900	3,700	5,200	9,500	7,400	3,500	3,600	4,900	22,600
Male .....	55,800	700	2,800	4,300	8,200	7,200	3,100	3,400	4,800	21,300
Female .....	5,400	200	900	900	1,300	200	400	100	100	1,400
Chemical engineers .....	61,000	2,700	10,100	7,500	7,100	6,300	6,700	4,400	2,500	13,500
Male .....	52,200	1,700	7,000	5,500	6,000	5,600	6,500	4,400	2,400	13,000
Female .....	8,800	1,000	3,200	2,000	1,100	700	300	S	100	500

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



**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Bachelor's — continued</b>										
Civil/architectural engineers .....	181,400	3,700	24,200	21,600	26,300	21,500	18,100	15,700	9,200	41,200
Male .....	164,400	2,900	19,600	18,200	23,000	19,600	17,000	14,700	8,800	40,500
Female .....	17,100	800	4,600	3,400	3,300	1,800	1,100	1,000	400	600
Electrical/related engineers .....	290,500	4,900	28,400	39,700	46,000	40,200	29,500	27,800	18,000	56,100
Male .....	271,900	3,900	24,600	34,300	41,800	37,900	28,500	27,300	17,800	55,800
Female .....	18,700	1,000	3,800	5,400	4,200	2,300	1,100	500	200	300
Industrial engineers .....	70,100	1,600	10,500	9,500	11,200	9,000	5,800	6,500	4,600	11,300
Male .....	62,400	1,200	8,200	7,800	9,000	8,300	5,500	6,500	4,500	11,300
Female .....	7,700	400	2,300	1,700	2,200	600	300	S	100	S
Mechanical engineers .....	238,500	5,900	31,300	36,000	40,200	24,000	23,100	19,100	11,400	47,500
Male .....	225,100	5,000	27,200	32,800	36,800	23,100	22,400	18,900	11,400	47,500
Female .....	13,500	900	4,100	3,200	3,400	900	700	200	S	100
Other engineers .....	206,300	4,300	23,200	28,500	29,200	29,600	21,000	19,000	12,800	38,700
Male .....	180,100	2,900	18,000	22,400	23,700	24,100	20,200	17,900	12,500	38,300
Female .....	26,200	1,300	5,200	6,100	5,600	5,500	800	1,000	300	400
Postsecondary teachers-engineers .....	7,400	1,600	2,300	400	100	S	800	900	200	1,100
Male .....	6,400	1,100	2,000	400	100	S	800	700	200	1,100
Female .....	1,100	500	300	S	S	S	S	200	S	S
<b>Non-S&amp;E occupations, total</b> .....	<b>5,204,700</b>	<b>225,600</b>	<b>782,400</b>	<b>588,400</b>	<b>629,800</b>	<b>748,400</b>	<b>751,700</b>	<b>513,200</b>	<b>305,100</b>	<b>660,000</b>
Male .....	2,955,200	90,400	359,900	312,700	338,100	400,600	470,000	324,800	206,900	451,700
Female .....	2,249,500	135,200	422,500	275,700	291,700	347,700	281,800	188,400	98,200	208,300
Managers/administrators .....	1,319,600	17,100	98,900	130,900	169,600	219,600	226,900	161,800	95,000	199,800
Male .....	931,300	8,600	49,600	80,300	112,400	143,400	163,800	128,000	75,300	170,000
Female .....	388,300	8,500	49,300	50,600	57,200	76,200	63,000	33,800	19,700	29,800
Health and related .....	350,900	15,800	61,700	44,800	42,100	64,200	46,600	32,200	17,100	26,400
Male .....	112,500	4,700	24,800	13,400	12,200	16,500	19,100	9,800	5,100	7,100
Female .....	238,500	11,100	36,900	31,400	30,000	47,700	27,500	22,500	12,000	19,400

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Bachelor's — continued</b>										
Teachers, except S&E postsecondary .....	482,800	27,600	88,800	49,800	52,800	59,400	61,500	48,100	32,200	62,500
Male .....	158,200	7,000	33,000	16,400	16,100	12,300	18,900	17,100	14,400	23,000
Female .....	324,500	20,600	55,700	33,300	36,700	47,200	42,600	31,100	17,900	39,500
Sales/marketing .....	848,600	34,900	131,300	107,600	96,500	122,200	111,500	79,200	47,300	118,200
Male .....	564,800	16,600	72,500	66,500	60,700	75,100	82,000	60,700	36,300	94,400
Female .....	283,800	18,300	58,900	41,000	35,700	47,100	29,500	18,500	11,000	23,800
Other non-S&E occupations <sup>3</sup> .....	2,202,800	130,300	401,600	255,400	268,800	283,000	305,200	191,800	113,600	253,100
Male .....	1,188,300	53,500	180,000	136,000	136,800	153,500	186,000	109,300	76,000	157,200
Female .....	1,014,500	76,800	221,600	119,300	132,100	129,500	119,100	82,500	37,600	95,900
<b>Master's</b>										
<b>All occupations, total</b> <sup>2</sup> .....	3,311,300	7,400	197,300	311,900	428,000	492,700	559,700	505,300	311,900	497,100
Male .....	2,066,000	4,100	100,500	184,200	251,300	283,100	343,200	335,400	214,200	350,000
Female .....	1,245,300	3,300	96,800	127,700	176,700	209,600	216,500	169,900	97,700	147,100
<b>S&amp;E occupations, total</b> .....	1,100,000	3,800	93,800	154,700	172,100	167,000	160,600	126,200	83,900	137,800
Male .....	806,700	2,400	62,400	109,600	120,100	117,200	117,400	96,600	64,200	116,800
Female .....	293,300	1,300	31,400	45,100	52,000	49,900	43,200	29,700	19,700	21,000
<b>Scientists, total</b> .....	671,100	2,400	61,100	93,900	100,400	105,700	107,000	77,500	52,400	70,800
Male .....	416,900	1,300	34,900	59,400	60,200	62,500	65,200	49,100	33,400	51,000
Female .....	254,200	1,100	26,200	34,600	40,200	43,200	41,700	28,400	18,900	19,900
<b>Computer/math sci, total</b> .....	328,500	1,000	25,600	50,400	58,000	55,200	51,700	38,100	22,800	25,700
Male .....	236,500	600	18,900	35,800	41,800	38,000	34,800	27,500	17,300	21,700
Female .....	91,900	400	6,700	14,500	16,200	17,200	16,900	10,500	5,500	4,000
Computer/information scientists .....	272,500	800	21,300	43,200	51,000	50,700	43,300	28,600	17,300	16,400
Male .....	204,200	600	16,200	31,800	38,100	36,000	32,100	21,700	13,400	14,300
Female .....	68,300	200	5,100	11,400	12,800	14,700	11,300	6,900	3,900	2,200

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Master's — continued</b>										
Mathematical scientists .....	18,100	S	1,300	3,200	2,500	1,900	3,000	3,500	1,000	1,600
Male .....	10,900	S	600	1,900	1,100	1,000	1,500	2,300	1,000	1,400
Female .....	7,200	S	700	1,300	1,400	900	1,400	1,200	S	200
Postsecondary teachers- computer math sci .....	37,800	100	3,000	4,000	4,500	2,700	5,400	6,000	4,500	7,700
Male .....	21,500	S	2,100	2,000	2,600	1,000	1,200	3,500	2,900	6,000
Female .....	16,400	100	900	1,900	1,900	1,600	4,200	2,400	1,600	1,700
<b>Life/related scientists, total</b> .....	<b>83,800</b>	<b>300</b>	<b>8,100</b>	<b>11,000</b>	<b>13,400</b>	<b>13,200</b>	<b>13,600</b>	<b>9,500</b>	<b>6,900</b>	<b>7,700</b>
Male .....	46,500	100	3,900	5,800	5,700	7,800	8,300	5,700	3,900	5,200
Female .....	37,300	200	4,100	5,200	7,700	5,400	5,400	3,800	3,000	2,500
Agricultural/food scientists .....	12,300	S	1,400	1,100	1,900	2,900	2,200	900	800	1,100
Male .....	8,500	S	800	500	1,500	1,300	1,800	900	600	1,100
Female .....	3,800	S	700	600	400	1,600	400	S	200	S
Biological scientists .....	45,400	200	4,900	7,700	8,300	7,400	6,200	4,600	3,000	3,100
Male .....	23,700	100	2,500	3,800	2,900	4,500	4,100	2,600	1,400	1,900
Female .....	21,700	100	2,500	3,900	5,400	2,900	2,100	1,900	1,600	1,200
Environmental life scientists .....	4,900	S	200	200	600	700	600	1,300	1,100	200
Male .....	4,100	S	100	100	100	600	600	1,300	1,100	200
Female .....	800	S	100	100	500	100	S	S	S	S
Postsecondary teachers- life/related sciences .....	21,200	100	1,500	2,100	2,500	2,300	4,700	2,700	2,000	3,300
Male .....	10,100	S	700	1,400	1,200	1,400	1,800	900	800	2,000
Female .....	11,000	100	800	600	1,300	900	2,900	1,800	1,200	1,300
<b>Physical/related scientists, total</b> ...	<b>83,300</b>	<b>200</b>	<b>7,000</b>	<b>11,100</b>	<b>11,200</b>	<b>12,300</b>	<b>13,400</b>	<b>8,000</b>	<b>7,000</b>	<b>13,000</b>
Male .....	62,500	100	4,800	7,600	7,300	8,400	10,700	6,000	5,700	11,700
Female .....	20,800	100	2,100	3,500	3,900	3,800	2,700	2,000	1,300	1,200

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Master's — continued</b>										
Chemistry, except biochemistry .....	24,600	S	1,600	2,400	2,900	3,300	4,300	2,800	2,500	4,800
Male .....	17,400	S	1,000	1,400	2,000	1,700	3,300	2,100	1,600	4,300
Female .....	7,200	S	600	900	900	1,600	1,000	700	900	500
Earth scientists/geologists/ oceanographers .....	28,000	S	1,500	4,000	5,600	5,100	5,800	1,400	1,100	3,600
Male .....	22,600	S	1,200	3,000	4,100	4,100	4,500	1,200	1,100	3,500
Female .....	5,400	S	300	1,100	1,500	1,000	1,300	100	S	100
Physicists/astronomers .....	11,300	S	1,800	2,200	1,200	600	1,700	700	700	2,400
Male .....	9,600	S	1,500	1,600	700	600	1,700	600	500	2,400
Female .....	1,700	S	300	600	500	100	S	100	100	S
Other physical/related scientists .....	7,800	S	600	1,700	900	2,400	500	1,000	500	300
Male .....	4,900	S	200	1,000	200	1,600	300	900	500	300
Female .....	2,900	S	400	700	700	800	200	100	S	S
Postsecondary teachers- physical/related sci .....	11,600	100	1,500	900	600	900	1,200	2,200	2,300	1,900
Male .....	8,000	100	1,000	700	300	500	900	1,200	2,000	1,300
Female .....	3,600	S	500	200	300	400	300	1,000	300	600
<b>Social/related scientists, total</b> .....	175,600	900	20,400	21,400	17,700	25,000	28,200	21,900	15,600	24,400
Male .....	71,500	600	7,100	10,100	5,300	8,300	11,400	9,800	6,600	12,300
Female .....	104,100	400	13,300	11,300	12,400	16,700	16,800	12,100	9,100	12,100
Economists .....	23,200	S	2,600	4,200	4,100	4,000	3,000	2,100	1,300	1,900
Male .....	16,100	S	1,500	3,100	2,100	2,500	2,000	1,900	1,200	1,800
Female .....	7,100	S	1,100	1,100	2,000	1,500	1,000	200	100	100
Political/related scientists .....	3,700	100	1,900	700	200	S	200	500	200	S
Male .....	2,000	100	1,000	300	100	S	S	300	200	S
Female .....	1,700	S	900	400	100	S	200	100	S	S

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Master's — continued</b>										
Psychologists .....	108,600	200	8,700	10,900	7,700	16,900	21,000	16,200	11,900	15,100
Male .....	31,900	S	1,400	3,100	1,200	4,200	7,900	5,100	4,100	4,900
Female .....	76,700	200	7,300	7,700	6,500	12,700	13,100	11,100	7,900	10,200
Sociologists/anthropologists .....	5,600	S	1,300	800	800	500	1,200	600	100	200
Male .....	2,800	S	400	400	100	300	800	500	100	200
Female .....	2,800	S	800	400	700	300	400	100	S	S
Other social/related scientists .....	4,100	200	600	800	S	1,400	S	200	100	700
Male .....	1,600	200	100	100	S	500	S	S	100	500
Female .....	2,500	S	600	700	S	900	S	200	S	200
Postsecondary teachers- social/related sci .....	30,400	400	5,400	4,100	4,900	2,100	2,700	2,300	2,000	6,500
Male .....	17,000	200	2,800	3,100	1,800	800	700	1,900	900	4,900
Female .....	13,400	200	2,600	1,000	3,200	1,400	2,000	400	1,100	1,600
<b>Engineers, total</b> .....	<b>428,900</b>	<b>1,400</b>	<b>32,700</b>	<b>60,800</b>	<b>71,800</b>	<b>61,400</b>	<b>53,600</b>	<b>48,800</b>	<b>31,500</b>	<b>67,000</b>
Male .....	389,800	1,100	27,500	50,300	60,000	54,700	52,200	47,500	30,800	65,800
Female .....	39,100	200	5,200	10,500	11,800	6,700	1,400	1,300	700	1,200
Aerospace/related engineers .....	32,900	200	1,900	3,800	4,700	5,700	2,100	4,400	2,900	7,500
Male .....	31,200	200	1,700	3,400	4,100	5,300	1,900	4,400	2,800	7,500
Female .....	1,800	S	200	400	600	300	100	S	100	S
Chemical engineers .....	24,600	100	1,500	2,800	4,600	3,500	2,800	2,400	1,900	5,000
Male .....	21,800	100	1,100	2,100	3,500	3,300	2,800	2,400	1,800	4,600
Female .....	2,800	S	400	600	1,100	200	S	S	100	300
Civil/architectural engineers .....	59,100	200	3,800	7,200	8,900	8,200	8,600	6,800	4,600	10,800
Male .....	54,400	200	3,100	6,400	7,600	7,600	8,400	6,200	4,500	10,500
Female .....	4,700	100	700	900	1,300	600	200	600	100	200
Electrical/related engineers .....	120,200	400	8,800	20,300	20,500	16,300	14,900	14,800	7,700	16,600
Male .....	112,100	300	8,100	17,800	18,100	15,200	14,400	14,300	7,500	16,400
Female .....	8,100	100	700	2,500	2,400	1,100	500	500	200	200

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Master's — continued</b>										
Industrial engineers .....	21,800	S	1,900	3,500	5,100	3,600	2,700	1,500	1,300	2,200
Male .....	18,800	S	1,400	2,400	4,400	2,800	2,600	1,500	1,300	2,200
Female .....	3,000	S	500	1,100	600	800	S	S	S	S
Mechanical engineers .....	70,800	200	6,800	10,200	12,000	9,300	7,800	7,200	5,700	11,600
Male .....	66,100	200	5,900	9,000	10,900	8,300	7,700	7,100	5,500	11,600
Female .....	4,700	100	900	1,100	1,100	1,100	100	100	200	100
Other engineers .....	87,100	200	6,700	11,400	14,900	14,200	12,900	10,300	6,900	9,700
Male .....	74,100	200	5,100	7,800	10,600	11,700	12,400	10,200	6,800	9,400
Female .....	12,900	S	1,600	3,500	4,300	2,500	500	100	S	300
Postsecondary teachers-engineers .....	12,400	100	1,300	1,700	1,200	600	1,900	1,500	600	3,600
Male .....	11,200	100	1,100	1,300	800	400	1,900	1,400	600	3,600
Female .....	1,200	S	200	400	300	200	S	100	S	S
<b>Non-S&amp;E occupations, total .....</b>	<b>2,211,300</b>	<b>3,700</b>	<b>103,500</b>	<b>157,200</b>	<b>255,800</b>	<b>325,600</b>	<b>399,100</b>	<b>379,000</b>	<b>228,000</b>	<b>359,300</b>
Male .....	1,259,300	1,700	38,200	74,600	131,100	165,900	225,800	238,800	150,000	233,200
Female .....	952,000	2,000	65,300	82,600	124,700	159,700	173,300	140,200	78,000	126,100
Managers/administrators .....	826,600	400	19,300	55,200	100,800	123,900	166,200	155,500	92,600	112,700
Male .....	591,900	100	9,400	34,100	60,300	77,300	119,000	123,600	74,200	93,900
Female .....	234,700	400	9,900	21,200	40,500	46,600	47,100	31,900	18,400	18,800
Health and related .....	109,900	400	10,400	13,900	15,400	22,500	15,400	12,600	8,400	10,900
Male .....	26,200	200	1,900	4,100	3,900	5,900	3,400	1,700	1,300	3,800
Female .....	83,700	200	8,600	9,700	11,500	16,600	12,000	11,000	7,100	7,200
Teachers, except S&E postsecondary .....	412,700	900	18,100	20,500	33,200	48,700	80,300	78,000	44,100	88,800
Male .....	174,700	300	6,200	6,200	12,300	17,000	30,800	35,300	21,100	45,400
Female .....	238,100	600	11,900	14,300	21,000	31,700	49,500	42,700	23,000	43,400

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Master's — continued</b>										
Sales/marketing .....	215,700	200	11,400	19,200	32,700	33,100	35,400	28,600	21,200	34,000
Male .....	151,700	S	5,900	9,900	21,400	21,300	25,400	22,400	18,200	27,200
Female .....	64,000	100	5,600	9,200	11,300	11,700	10,000	6,200	3,000	6,800
Other non-S&E occupations <sup>3</sup> .....	646,300	1,800	44,300	48,400	73,700	97,500	101,900	104,200	61,600	112,900
Male .....	314,900	1,100	14,800	20,300	33,200	44,400	47,200	55,800	35,100	63,000
Female .....	331,500	700	29,400	28,100	40,400	53,100	54,700	48,500	26,600	49,900
<b>Doctorate</b>										
<b>All occupations, total<sup>2</sup></b> .....	789,700	S	10,500	60,200	97,100	107,200	121,000	127,200	109,600	156,900
Male .....	599,400	S	6,900	40,300	67,100	74,900	86,500	96,300	92,200	135,300
Female .....	190,300	S	3,600	19,900	29,900	32,300	34,500	30,900	17,500	21,600
<b>S&amp;E occupations, total</b> .....	511,900	S	9,300	49,300	73,300	77,000	74,700	72,600	63,300	92,400
Male .....	393,700	S	6,200	33,800	51,100	55,000	55,200	56,600	54,000	81,900
Female .....	118,100	S	3,200	15,600	22,200	22,000	19,400	15,900	9,300	10,500
<b>Scientists, total</b> .....	422,700	S	7,200	39,100	58,400	63,900	65,000	61,500	52,700	74,800
Male .....	310,400	S	4,600	24,700	37,900	43,100	46,200	45,900	43,500	64,500
Female .....	112,300	S	2,700	14,400	20,500	20,800	18,800	15,600	9,200	10,300
<b>Computer/math sci, total</b> .....	64,800	S	1,600	6,100	9,200	9,200	10,000	10,800	8,400	9,500
Male .....	53,000	S	1,300	5,000	7,200	7,600	7,700	8,500	7,400	8,300
Female .....	11,900	S	300	1,100	2,000	1,600	2,300	2,200	1,000	1,200
Computer/information scientists .....	27,900	S	900	3,500	4,700	3,900	4,400	4,100	3,500	2,900
Male .....	23,900	S	800	3,100	4,000	3,300	3,800	3,300	3,300	2,400
Female .....	4,000	S	100	400	800	600	600	900	200	500
Mathematical scientists .....	7,800	S	100	700	1,300	1,000	1,100	1,700	800	1,100
Male .....	5,900	S	100	500	700	700	800	1,200	700	1,100
Female .....	1,900	S	S	200	600	300	300	500	S	100

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Doctorate — continued</b>										
Postsecondary teachers- computer math sci .....	29,100	S	600	2,000	3,200	4,300	4,500	5,000	4,100	5,500
Male .....	23,200	S	400	1,400	2,500	3,500	3,100	4,100	3,300	4,900
Female .....	5,900	S	200	500	700	800	1,400	900	800	600
<b>Life/related scientists, total</b> .....	128,400	S	2,300	12,600	20,400	21,300	19,700	16,400	13,900	21,800
Male .....	92,800	S	1,500	7,000	12,800	14,300	14,200	12,500	11,300	19,100
Female .....	35,600	S	800	5,600	7,600	6,900	5,600	3,900	2,600	2,700
Agricultural/food scientists .....	12,200	S	S	700	1,600	2,100	1,900	1,500	1,600	2,700
Male .....	10,300	S	S	500	1,200	1,600	1,600	1,400	1,500	2,600
Female .....	1,800	S	S	200	400	500	300	100	100	100
Biological scientists .....	73,400	S	2,200	10,200	13,900	13,100	11,400	7,600	5,800	9,100
Male .....	50,500	S	1,500	5,600	8,800	8,600	8,100	5,600	4,600	7,700
Female .....	22,900	S	700	4,600	5,100	4,500	3,300	2,000	1,200	1,400
Environmental life scientists .....	1,500	S	S	S	100	300	200	200	100	500
Male .....	1,300	S	S	S	100	300	200	200	100	500
Female .....	200	S	S	S	S	S	S	S	S	S
Postsecondary teachers- life/related sciences .....	41,300	S	100	1,600	4,700	5,800	6,200	7,000	6,400	9,400
Male .....	30,600	S	S	900	2,800	3,900	4,300	5,200	5,100	8,300
Female .....	10,800	S	S	700	2,000	1,800	2,000	1,800	1,300	1,100
<b>Physical/related scientists, total</b> ...	96,100	S	1,700	10,100	14,200	13,100	12,500	11,100	12,700	20,800
Male .....	83,900	S	1,200	8,000	11,100	10,700	11,100	10,200	11,900	19,700
Female .....	12,200	S	500	2,100	3,000	2,400	1,400	900	800	1,100
Chemistry, except biochemistry .....	34,400	S	900	4,400	6,000	4,400	4,600	3,000	4,000	7,000
Male .....	29,200	S	700	3,400	4,600	3,600	4,100	2,700	3,700	6,400
Female .....	5,200	S	200	1,000	1,500	800	600	300	300	600

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



**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Doctorate — continued</b>										
Earth scientists/geologists/ oceanographers .....	11,900	S	100	700	1,800	1,700	2,000	2,000	1,200	2,400
Male .....	10,700	S	100	600	1,500	1,500	1,600	1,800	1,100	2,400
Female .....	1,200	S	S	100	300	200	300	200	S	S
Physicists/astronomers .....	16,900	S	400	2,600	2,200	2,500	1,700	2,200	2,300	3,000
Male .....	15,600	S	300	2,400	1,800	2,300	1,600	2,100	2,200	2,900
Female .....	1,200	S	S	200	400	200	100	100	100	100
Other physical/related scientists .....	1,700	S	S	200	200	200	300	200	300	400
Male .....	1,600	S	S	200	200	100	300	200	300	400
Female .....	200	S	S	S	S	100	S	S	S	S
Postsecondary teachers- physical/related sci .....	31,200	S	300	2,100	3,900	4,300	3,900	3,800	5,000	8,000
Male .....	26,800	S	100	1,400	3,000	3,200	3,500	3,400	4,600	7,600
Female .....	4,400	S	200	700	800	1,100	400	400	400	400
<b>Social/related scientists, total .....</b>	<b>133,300</b>	<b>S</b>	<b>1,700</b>	<b>10,300</b>	<b>14,700</b>	<b>20,300</b>	<b>22,700</b>	<b>23,200</b>	<b>17,700</b>	<b>22,700</b>
Male .....	80,800	S	600	4,700	6,800	10,500	13,300	14,600	12,900	17,400
Female .....	52,500	S	1,100	5,700	7,900	9,800	9,400	8,500	4,800	5,300
Economists .....	8,700	S	100	1,100	1,300	1,300	1,300	1,400	800	1,300
Male .....	7,000	S	100	900	1,000	800	1,100	1,200	700	1,200
Female .....	1,700	S	S	200	300	500	200	300	100	100
Political/related scientists .....	1,200	S	S	100	200	100	S	200	400	300
Male .....	1,000	S	S	100	100	100	S	100	300	300
Female .....	200	S	S	S	100	S	S	S	S	S
Psychologists .....	58,000	S	1,100	5,100	6,500	10,000	10,300	9,800	7,400	7,700
Male .....	28,800	S	300	1,300	2,100	4,400	5,900	5,400	4,700	4,900
Female .....	29,200	S	800	3,800	4,400	5,700	4,500	4,500	2,700	2,800

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Doctorate — continued</b>										
Sociologists/anthropologists .....	4,300	S	S	200	400	600	1,100	700	300	900
Male .....	2,200	S	S	100	100	300	400	400	200	600
Female .....	2,100	S	S	100	300	300	700	300	200	300
Other social/related scientists .....	3,000	S	S	100	200	500	1,100	600	300	200
Male .....	1,300	S	S	100	100	200	400	200	200	100
Female .....	1,700	S	S	100	100	300	700	400	100	100
Postsecondary teachers- social/related sci .....	58,100	S	500	3,700	6,100	7,800	8,900	10,400	8,400	12,400
Male .....	40,500	S	300	2,200	3,400	4,700	5,500	7,300	6,800	10,200
Female .....	17,600	S	300	1,400	2,700	3,100	3,300	3,000	1,700	2,200
<b>Engineers, total</b> .....	<b>89,200</b>	<b>S</b>	<b>2,100</b>	<b>10,300</b>	<b>14,800</b>	<b>13,100</b>	<b>9,700</b>	<b>11,000</b>	<b>10,600</b>	<b>17,600</b>
Male .....	83,300	S	1,600	9,100	13,100	11,900	9,000	10,700	10,500	17,400
Female .....	5,900	S	500	1,200	1,700	1,200	700	300	100	200
Aerospace/related engineers .....	5,100	S	100	500	700	400	600	600	900	1,100
Male .....	4,800	S	100	400	700	400	600	600	900	1,100
Female .....	300	S	S	100	S	100	S	S	S	S
Chemical engineers .....	8,300	S	300	1,300	1,700	1,200	700	900	600	1,700
Male .....	7,700	S	200	1,100	1,500	1,100	600	900	600	1,700
Female .....	600	S	100	200	200	100	100	S	S	S
Civil/architectural engineers .....	4,500	S	100	400	600	600	600	800	500	900
Male .....	4,300	S	100	300	500	600	500	800	500	900
Female .....	200	S	S	100	S	S	S	S	S	S
Electrical/related engineers .....	18,800	S	800	3,000	3,100	2,700	2,200	1,900	2,100	3,000
Male .....	17,800	S	700	2,800	2,900	2,500	2,000	1,900	2,100	3,000
Female .....	900	S	200	200	200	200	100	S	S	S
Industrial engineers .....	1,400	S	S	100	400	300	200	200	100	100
Male .....	1,200	S	S	100	300	200	100	200	100	100
Female .....	200	S	S	S	100	S	S	S	S	S

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Doctorate — continued</b>										
Mechanical engineers .....	9,900	S	200	1,200	1,500	1,800	1,100	1,100	1,300	1,600
Male .....	9,600	S	200	1,200	1,400	1,800	1,100	1,100	1,300	1,600
Female .....	300	S	S	S	100	100	S	S	S	S
Other engineers .....	19,900	S	400	2,100	3,500	2,700	2,200	3,100	2,200	3,800
Male .....	17,900	S	200	1,700	2,900	2,500	2,000	2,900	2,100	3,700
Female .....	2,000	S	200	400	600	200	300	200	100	100
Postsecondary teachers-engineers	21,300	S	200	1,700	3,400	3,300	2,200	2,400	2,700	5,500
Male .....	19,900	S	100	1,500	2,800	2,900	2,100	2,400	2,700	5,400
Female .....	1,400	S	S	200	500	400	100	S	S	S
<b>Non-S&amp;E occupations, total</b> .....	<b>277,800</b>	<b>S</b>	<b>1,100</b>	<b>10,800</b>	<b>23,800</b>	<b>30,200</b>	<b>46,400</b>	<b>54,600</b>	<b>46,300</b>	<b>64,500</b>
Male .....	205,700	S	700	6,500	16,100	19,900	31,300	39,700	38,200	53,400
Female .....	72,100	S	400	4,300	7,700	10,400	15,000	15,000	8,100	11,100
Managers/administrators .....	115,300	S	200	1,500	8,000	12,000	21,700	25,300	23,200	23,400
Male .....	94,600	S	200	1,000	6,200	9,100	16,900	20,200	20,100	21,000
Female .....	20,700	S	S	600	1,700	2,900	4,800	5,100	3,000	2,400
Health and related .....	26,400	S	100	1,600	2,400	3,900	3,300	4,900	3,500	6,600
Male .....	18,200	S	100	1,100	1,500	2,600	2,200	3,200	2,600	4,900
Female .....	8,200	S	S	500	900	1,300	1,200	1,700	900	1,700
Teachers, except S&E postsecondary .....	68,100	S	300	3,100	5,800	8,300	10,800	12,600	10,700	16,500
Male .....	42,300	S	S	1,300	3,200	4,100	5,800	7,400	7,900	12,500
Female .....	25,800	S	300	1,800	2,600	4,200	5,000	5,200	2,700	4,000
Sales/marketing .....	9,600	S	S	600	800	900	1,600	1,100	1,700	2,800
Male .....	7,900	S	S	400	700	700	1,000	900	1,600	2,500
Female .....	1,700	S	S	100	100	100	600	200	200	400

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

**Table D-8. U.S. scientists and engineers, by highest degree attained, occupation, sex, and age: 1997**

Highest degree, occupation, and sex	S&Es, total	Age range								
		<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60+
<b>Doctorate — continued</b>										
Other non-S&E occupations <sup>3</sup> .....	58,500	S	400	4,000	6,800	5,100	8,900	10,700	7,200	15,300
Male .....	42,700	S	400	2,600	4,400	3,400	5,500	7,900	5,900	12,600
Female .....	15,800	S	S	1,400	2,400	1,800	3,400	2,800	1,300	2,700

1 Includes professional degrees

2 Total excludes 18,700 individuals who reported never having worked. For unemployed individuals, occupation is for their previous reported job.

3 Includes individuals employed in non-S&E occupations, not shown 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 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)