

**Table E-3. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and employment sector: 1993**

Highest degree, occupation, 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
<b>All degree levels<sup>1</sup></b>											
<b>All occupations, total<sup>2</sup></b> .....	9,793,500	6,661,200	5,343,100	754,400	563,800	1,761,400	906,100	855,300	1,370,900	624,600	746,200
Male .....	6,729,500	4,822,600	4,006,400	546,500	269,600	937,100	565,600	371,500	969,800	492,600	477,200
Female .....	3,064,100	1,838,600	1,336,600	207,800	294,100	824,300	340,500	483,800	401,100	132,000	269,100
<b>S&amp;E occupations, total</b> .....	3,303,400	2,240,600	2,018,700	116,700	105,200	588,000	472,100	116,000	474,700	278,800	195,900
Male .....	2,547,900	1,777,000	1,639,700	78,000	59,300	391,700	329,200	62,500	379,200	229,500	149,700
Female .....	755,500	463,600	379,100	38,700	45,900	196,400	142,900	53,500	95,500	49,300	46,200
<b>Scientists, total</b> .....	1,912,300	1,145,400	976,800	82,500	86,100	509,900	402,900	107,000	257,000	147,900	109,100
Male .....	1,276,400	770,600	683,500	44,900	42,200	321,500	267,000	54,600	184,300	111,600	72,600
Female .....	635,900	374,800	293,300	37,600	43,900	188,300	135,900	52,400	72,800	36,300	36,500
<b>Computer/math scientists, total</b> ....	991,500	759,600	697,400	29,100	33,000	127,000	87,200	39,800	104,900	65,600	39,300
Male .....	686,100	529,400	491,800	19,800	17,800	80,900	58,200	22,700	75,800	49,100	26,700
Female .....	305,400	230,100	205,600	9,300	15,200	46,100	29,000	17,100	29,100	16,500	12,600
<b>Life/related scientists, total</b> .....	322,300	102,100	86,100	5,900	10,100	155,600	140,400	15,200	64,600	36,500	28,100
Male .....	212,600	65,000	55,200	4,500	5,300	99,300	91,400	7,900	48,400	27,500	20,900
Female .....	109,700	37,100	30,900	1,400	4,800	56,300	49,000	7,300	16,200	9,000	7,200
<b>Physical/related scientists, total</b> ...	280,900	154,900	142,600	5,800	6,500	81,700	72,200	9,500	44,300	29,100	15,200
Male .....	221,100	122,900	111,900	5,500	5,500	63,600	57,500	6,100	34,600	23,200	11,400
Female .....	59,900	32,000	30,700	300	1,000	18,100	14,700	3,400	9,700	5,900	3,800
<b>Social/related scientists, total</b> .....	317,600	128,800	50,700	41,700	36,400	145,500	103,000	42,600	43,200	16,700	26,500
Male .....	156,600	53,300	24,500	15,200	13,600	77,800	59,900	17,900	25,500	11,900	13,700
Female .....	160,900	75,500	26,200	26,500	22,800	67,800	43,100	24,600	17,700	4,900	12,800
<b>Engineers, total</b> .....	1,391,100	1,095,200	1,041,900	34,200	19,100	78,200	69,200	9,000	217,700	131,000	86,800
Male .....	1,271,500	1,006,400	956,200	33,100	17,100	70,100	62,200	8,000	195,000	117,900	77,000
Female .....	119,600	88,800	85,800	1,100	2,000	8,000	7,000	1,000	22,800	13,000	9,700
<b>Non-S&amp;E occupations, total</b> .....	6,490,100	4,420,600	3,324,300	637,700	458,600	1,173,400	434,000	739,400	896,200	345,800	550,300
Male .....	4,181,600	3,045,600	2,366,800	468,500	210,300	545,400	236,400	309,000	590,500	263,100	327,500
Female .....	2,308,600	1,375,000	957,600	169,200	248,300	628,000	197,600	430,400	305,600	82,700	222,900

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

**Table E-3. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and employment sector: 1993**

Highest degree, occupation, 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
<b>All degree levels<sup>1</sup> — continued</b>											
<b>Managers/administrators</b> .....	1,994,400	1,456,300	1,245,800	79,300	131,100	185,400	96,800	88,500	352,800	168,200	184,600
Male .....	1,499,700	1,117,600	990,700	58,200	68,700	115,200	59,000	56,200	267,000	138,800	128,200
Female .....	494,700	338,700	255,100	21,200	62,400	70,200	37,800	32,400	85,800	29,400	56,400
<b>Other non-S&amp;E occupations</b> .....	4,495,700	2,964,400	2,078,500	558,300	327,500	988,000	337,200	650,800	543,400	177,600	365,800
Male .....	2,681,900	1,928,000	1,376,000	410,300	141,700	430,300	177,400	252,800	323,600	124,300	199,300
Female .....	1,813,900	1,036,300	702,500	148,000	185,800	557,700	159,700	398,000	219,800	53,300	166,500
<b>Bachelor's</b>											
<b>All occupations, total<sup>2</sup></b> .....	5,727,200	4,242,600	3,600,000	362,000	280,700	653,100	290,100	363,000	831,500	369,900	461,600
Male .....	3,876,700	3,009,700	2,642,300	256,500	110,900	279,500	142,100	137,400	587,600	287,200	300,400
Female .....	1,850,500	1,232,900	957,700	105,500	169,800	373,600	148,100	225,500	243,900	82,700	161,200
<b>S&amp;E occupations, total</b> .....	1,980,300	1,509,200	1,400,800	54,100	54,200	162,400	128,600	33,800	308,700	172,700	136,000
Male .....	1,553,200	1,207,100	1,132,000	44,800	30,300	96,800	77,000	19,800	249,300	142,200	107,100
Female .....	427,200	302,100	268,800	9,300	24,000	65,700	51,600	14,100	59,400	30,500	28,900
<b>Scientists, total</b> .....	1,007,000	725,600	653,200	29,300	43,100	135,500	106,500	29,000	145,900	79,800	66,100
Male .....	664,900	487,000	446,400	20,400	20,300	73,100	57,400	15,700	104,800	59,600	45,200
Female .....	342,100	238,600	206,800	9,000	22,800	62,400	49,100	13,300	41,100	20,100	21,000
<b>Computer/math scientists, total</b> ....	676,200	555,000	508,700	20,800	25,500	49,200	31,700	17,500	72,000	44,200	27,900
Male .....	457,700	378,700	350,200	14,400	14,100	28,000	18,000	9,900	51,000	32,100	19,000
Female .....	218,500	176,300	158,500	6,300	11,500	21,300	13,700	7,600	21,000	12,100	8,900
<b>Life/related scientists, total</b> .....	131,600	56,200	48,500	3,800	3,900	39,000	33,700	5,200	36,500	16,700	19,900
Male .....	82,200	33,800	29,200	2,900	1,600	19,700	16,600	3,200	28,700	13,500	15,200
Female .....	49,500	22,400	19,300	800	2,300	19,200	17,200	2,000	7,800	3,100	4,700
<b>Physical/related scientists, total</b> ...	130,700	85,200	80,800	2,800	1,600	21,800	19,100	2,700	23,600	13,900	9,800
Male .....	96,900	64,800	61,100	2,700	1,000	14,800	13,900	900	17,300	10,400	6,900
Female .....	33,700	20,400	19,700	100	600	7,000	5,200	1,800	6,300	3,500	2,900

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

**Table E-3. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and employment sector: 1993**

Highest degree, occupation, 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
<b>Bachelor's — continued</b>											
<b>Social/related scientists, total</b> .....	68,500	29,300	15,300	2,000	12,100	25,500	22,000	3,500	13,800	5,100	8,600
Male .....	28,200	9,700	5,900	300	3,600	10,600	8,900	1,700	7,800	3,700	4,100
Female .....	40,300	19,500	9,400	1,700	8,500	14,900	13,000	1,800	5,900	1,400	4,500
<b>Engineers, total</b> .....	973,300	783,600	747,600	24,800	11,100	26,900	22,100	4,900	162,800	92,900	69,900
Male .....	888,200	720,100	685,600	24,500	10,000	23,700	19,600	4,100	144,500	82,600	61,900
Female .....	85,100	63,500	62,000	300	1,100	3,300	2,500	800	18,300	10,300	8,000
<b>Non-S&amp;E occupations, total</b> .....	3,746,900	2,733,400	2,199,100	307,800	226,500	490,700	161,500	329,100	522,800	197,200	325,600
Male .....	2,323,600	1,802,600	1,510,300	211,600	80,700	182,700	65,100	117,700	338,300	145,000	193,300
Female .....	1,423,300	930,900	688,900	96,200	145,800	308,000	96,500	211,500	184,500	52,200	132,300
<b>Managers/administrators</b> .....	1,134,700	898,200	801,700	44,400	52,100	50,800	32,300	18,500	185,700	86,800	98,900
Male .....	844,900	683,000	630,000	32,100	20,800	25,100	15,800	9,300	136,800	68,100	68,700
Female .....	289,800	215,200	171,700	12,200	31,300	25,700	16,500	9,200	48,900	18,700	30,200
<b>Other non-S&amp;E occupations</b> .....	2,612,200	1,835,200	1,397,400	263,500	174,300	439,900	129,200	310,600	337,100	110,400	226,700
Male .....	1,478,600	1,119,600	880,200	179,500	59,800	157,600	49,300	108,300	201,500	76,900	124,600
Female .....	1,133,500	715,700	517,200	83,900	114,500	282,300	79,900	202,300	135,600	33,500	102,100
<b>Master's</b>											
<b>All occupations, total</b> <sup>2</sup> .....	2,575,600	1,523,200	1,172,500	146,100	204,600	671,600	224,500	447,200	380,800	176,500	204,200
Male .....	1,688,100	1,089,000	901,900	83,700	103,500	329,200	126,200	203,000	269,900	144,900	125,000
Female .....	887,500	434,200	270,600	62,500	101,100	342,500	98,200	244,200	110,900	31,700	79,200
<b>S&amp;E occupations, total</b> .....	891,300	571,800	501,900	37,400	32,500	190,900	121,500	69,500	128,600	78,200	50,300
Male .....	657,300	445,000	410,700	17,900	16,500	111,800	76,900	34,900	100,400	64,600	35,800
Female .....	234,000	126,800	91,200	19,500	16,000	79,100	44,500	34,500	28,200	13,600	14,600
<b>Scientists, total</b> .....	541,400	299,800	242,400	30,800	26,600	163,400	97,900	65,400	78,300	44,000	34,300
Male .....	338,200	196,200	172,900	12,000	11,300	87,900	56,800	31,100	54,100	32,700	21,400
Female .....	203,300	103,600	69,500	18,900	15,200	75,400	41,100	34,300	24,200	11,300	12,900

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**Table E-3. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and employment sector: 1993**

Highest degree, occupation, 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
<b>Master's — continued</b>											
<b>Computer/math scientists, total</b> ....	263,600	184,300	171,000	7,300	6,000	50,100	29,400	20,800	29,200	18,900	10,300
Male .....	185,400	133,600	126,600	4,500	2,500	30,300	18,600	11,700	21,400	14,700	6,700
Female .....	78,200	50,600	44,300	2,700	3,600	19,800	10,800	9,000	7,700	4,200	3,600
<b>Life/related scientists, total</b> .....	70,400	19,800	17,800	900	1,100	34,100	26,300	7,800	16,500	10,100	6,500
Male .....	40,500	11,600	10,700	600	400	17,500	14,400	3,100	11,400	7,000	4,400
Female .....	29,900	8,200	7,100	300	800	16,500	11,900	4,700	5,200	3,100	2,100
<b>Physical/related scientists, total</b> ...	72,600	38,000	33,800	1,800	2,400	21,500	16,600	4,900	13,100	8,500	4,600
Male .....	55,600	30,200	26,300	1,700	2,100	15,100	11,400	3,700	10,300	6,600	3,700
Female .....	17,000	7,800	7,500	100	300	6,400	5,200	1,200	2,800	1,900	800
<b>Social/related scientists, total</b> .....	134,900	57,700	19,800	20,900	17,000	57,600	25,600	32,000	19,500	6,600	12,900
Male .....	56,600	20,800	9,200	5,200	6,400	24,900	12,400	12,500	10,900	4,400	6,500
Female .....	78,200	37,000	10,500	15,800	10,600	32,700	13,300	19,500	8,600	2,200	6,400
<b>Engineers, total</b> .....	349,900	272,000	259,600	6,600	5,900	27,600	23,500	4,000	50,300	34,200	16,100
Male .....	319,100	248,900	237,800	5,900	5,100	23,900	20,100	3,800	46,300	31,900	14,400
Female .....	30,800	23,200	21,700	700	800	3,600	3,400	200	4,000	2,300	1,700
<b>Non-S&amp;E occupations, total</b> .....	1,684,300	951,400	670,500	108,700	172,100	480,700	103,000	377,700	252,200	98,300	153,900
Male .....	1,030,800	644,000	491,100	65,800	87,000	217,300	49,300	168,100	169,500	80,300	89,200
Female .....	653,500	307,400	179,400	42,900	85,100	263,400	53,700	209,700	82,700	18,000	64,700
<b>Managers/administrators</b> .....	693,200	466,700	374,200	28,000	64,500	87,800	30,900	56,900	138,700	65,000	73,700
Male .....	518,500	357,400	300,200	20,500	36,700	52,800	16,800	36,000	108,300	57,200	51,100
Female .....	174,700	109,300	74,000	7,500	27,800	35,100	14,200	20,900	30,400	7,900	22,500
<b>Other non-S&amp;E occupations</b> .....	991,100	484,700	296,300	80,700	107,600	392,900	72,100	320,900	113,500	33,300	80,200
Male .....	512,300	286,600	191,000	45,300	50,300	164,600	32,500	132,100	61,200	23,100	38,100
Female .....	478,700	198,100	105,400	35,400	57,300	228,400	39,500	188,800	52,300	10,200	42,100

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

**Table E-3. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and employment sector: 1993**

Highest degree, occupation, 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
<b>Doctorate</b>											
<b>All occupations, total<sup>2</sup></b> .....	634,800	263,500	186,500	41,600	35,500	312,100	280,100	32,000	59,100	39,900	19,200
Male .....	499,400	213,700	157,200	29,400	27,000	238,000	215,600	22,400	47,800	33,200	14,500
Female .....	135,400	49,800	29,200	12,200	8,500	74,100	64,500	9,600	11,400	6,700	4,700
<b>S&amp;E occupations, total</b> .....	395,600	147,200	108,200	22,700	16,400	214,700	204,100	10,600	33,600	25,300	8,400
Male .....	311,500	116,500	90,800	13,700	11,900	167,400	160,400	7,100	27,600	21,200	6,400
Female .....	84,100	30,700	17,300	8,900	4,400	47,300	43,800	3,500	6,100	4,000	2,000
<b>Scientists, total</b> .....	330,500	110,000	75,400	20,400	14,300	191,100	180,600	10,500	29,400	21,700	7,700
Male .....	250,000	81,300	59,800	11,500	10,000	144,900	137,900	7,000	23,800	18,000	5,800
Female .....	80,600	28,700	15,500	8,900	4,300	46,200	42,700	3,500	5,700	3,700	1,900
<b>Computer/math scientists, total</b> ....	48,700	18,000	15,600	900	1,500	27,300	25,900	1,400	3,400	2,300	1,100
Male .....	40,400	15,000	13,000	700	1,300	22,300	21,400	1,000	3,100	2,000	1,000
Female .....	8,300	3,000	2,500	300	200	5,000	4,500	500	300	200	100
<b>Life/related scientists, total</b> .....	98,100	22,600	17,600	800	4,200	65,800	64,200	1,600	9,700	8,300	1,400
Male .....	73,300	17,400	13,800	600	3,000	48,300	47,100	1,200	7,700	6,400	1,200
Female .....	24,800	5,200	3,800	200	1,200	17,500	17,100	400	2,000	1,900	200
<b>Physical/related scientists, total</b> ...	77,000	31,200	27,500	1,200	2,600	38,400	36,500	1,900	7,400	6,700	700
Male .....	68,300	27,800	24,400	1,100	2,400	33,700	32,200	1,500	6,800	6,200	600
Female .....	8,700	3,400	3,100	100	200	4,700	4,300	400	600	500	100
<b>Social/related scientists, total</b> .....	106,700	38,200	14,700	17,400	6,100	59,500	54,000	5,500	9,000	4,500	4,500
Male .....	68,000	21,100	8,600	9,200	3,300	40,600	37,300	3,300	6,300	3,300	2,900
Female .....	38,700	17,100	6,100	8,300	2,800	18,900	16,700	2,200	2,700	1,100	1,600
<b>Engineers, total</b> .....	65,000	37,200	32,800	2,300	2,100	23,700	23,600	100	4,200	3,500	600
Male .....	61,500	35,200	31,000	2,200	2,000	22,500	22,400	100	3,800	3,200	600
Female .....	3,500	2,000	1,800	100	100	1,100	1,100	S	400	300	100
<b>Non-S&amp;E occupations, total</b> .....	239,200	116,300	78,300	18,900	19,100	97,400	76,000	21,400	25,500	14,700	10,900
Male .....	187,900	97,200	66,400	15,700	15,100	70,600	55,200	15,400	20,200	12,000	8,200
Female .....	51,300	19,200	11,900	3,200	4,000	26,800	20,700	6,100	5,300	2,600	2,700

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

**Table E-3. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, sex, and employment sector: 1993**

Highest degree, occupation, 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
<b>Doctorate — continued</b>											
<b>Managers/administrators</b> .....	119,000	61,400	48,500	3,300	9,600	40,400	29,400	11,000	17,200	10,900	6,300
Male .....	99,300	53,100	42,900	2,700	7,400	32,200	23,300	8,900	14,000	9,200	4,800
Female .....	19,700	8,400	5,600	600	2,200	8,200	6,100	2,100	3,200	1,700	1,500
<b>Other non-S&amp;E occupations</b> .....	120,200	54,900	29,800	15,600	9,500	57,000	46,600	10,500	8,300	3,800	4,500
Male .....	88,700	44,100	23,500	12,900	7,700	38,400	31,900	6,500	6,200	2,800	3,300
Female .....	31,600	10,800	6,300	2,600	1,800	18,700	14,700	4,000	2,100	900	1,200

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.

**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)