

Table B-11. U.S. scientists and engineers, by level and field of highest degree attained, sex, and citizenship status: 1993

Level and field of highest degree, and sex	S&Es, total	U.S. citizen			Non-U.S. citizen		
		Total ¹	Native	Naturalized	Total ²	Permanent resident	Temporary resident
All degree levels³							
All degree fields, total	11,615,200	11,093,300	10,286,500	806,700	521,900	412,100	108,300
Male	7,747,300	7,389,800	6,834,900	554,800	357,600	277,400	78,900
Female	3,867,900	3,703,500	3,451,600	251,900	164,400	134,700	29,400
S&E degree fields, total	8,571,000	8,130,700	7,494,600	636,000	440,400	342,300	96,500
Male	5,692,900	5,390,700	4,950,600	440,100	302,300	230,400	70,600
Female	2,878,000	2,739,900	2,544,000	195,900	138,100	111,900	25,900
Sciences, total	6,354,300	6,068,400	5,685,600	382,800	285,900	222,700	62,300
Male	3,648,700	3,482,900	3,271,600	211,300	165,800	125,100	40,100
Female	2,705,600	2,585,500	2,414,000	171,500	120,100	97,700	22,200
Computer/math sciences, total	1,046,400	976,600	890,000	86,600	69,800	54,300	15,500
Male	675,100	628,200	575,300	52,900	47,000	36,300	10,600
Female	371,300	348,500	314,700	33,700	22,900	17,900	4,900
Computer/information sciences	515,100	472,500	419,000	53,500	42,700	34,000	8,700
Male	344,600	314,000	280,900	33,100	30,600	24,000	6,600
Female	170,500	158,500	138,100	20,400	12,100	10,000	2,000
Mathematical sciences	531,300	504,100	471,000	33,100	27,200	20,300	6,900
Male	330,500	314,100	294,400	19,700	16,400	12,400	4,000
Female	200,800	190,000	176,600	13,300	10,800	7,900	2,900
Life/related sciences, total	1,322,600	1,259,100	1,170,300	88,800	63,500	47,700	15,800
Male	773,800	741,100	695,700	45,300	32,800	24,200	8,400
Female	548,800	518,100	474,600	43,400	30,700	23,400	7,300
Agricultural/food sciences	243,700	235,000	224,100	10,900	8,600	5,600	3,000
Male	185,000	179,300	172,100	7,200	5,700	3,900	1,700
Female	58,700	55,700	52,000	3,700	3,000	1,700	1,300
Biological sciences	982,000	928,900	853,100	75,800	53,100	40,700	12,300
Male	515,600	489,900	453,300	36,500	25,800	19,400	6,300
Female	466,300	439,000	399,800	39,200	27,300	21,300	6,000
Environmental life sciences	97,000	95,200	93,100	2,100	1,800	1,300	400
Male	73,200	71,800	70,200	1,600	1,300	1,000	400
Female	23,800	23,400	22,900	500	400	400	S
Physical/related sciences, total	760,700	705,800	644,800	61,000	54,900	41,100	13,600
Male	592,700	553,400	511,600	41,800	39,300	28,400	10,700
Female	168,100	152,400	133,200	19,200	15,700	12,700	3,000
Chemistry, except biochemistry	345,000	318,100	281,100	37,000	26,900	21,600	5,300
Male	242,300	225,700	203,400	22,200	16,600	12,700	3,900
Female	102,700	92,400	77,700	14,800	10,300	8,900	1,400
Earth science, geology and oceanography	175,900	168,700	162,300	6,400	7,200	5,300	1,700
Male	146,600	140,800	135,400	5,400	5,700	4,100	1,400
Female	29,300	27,900	26,900	1,000	1,500	1,100	300
Physics/astronomy	173,900	155,400	141,300	14,100	18,400	12,500	5,900
Male	155,900	140,700	128,900	11,800	15,200	10,400	4,800
Female	18,000	14,800	12,400	2,300	3,200	2,100	1,100

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

Table B-11. U.S. scientists and engineers, by level and field of highest degree attained, sex, and citizenship status: 1993

Level and field of highest degree, and sex	S&Es, total	U.S. citizen			Non-U.S. citizen		
		Total ¹	Native	Naturalized	Total ²	Permanent resident	Temporary resident
All degree levels³ — continued							
Other physical sciences	34,800	33,700	31,600	2,000	1,100	700	400
Male	24,200	23,400	22,100	1,300	800	500	300
Female	10,700	10,300	9,500	800	400	200	100
Social/related sciences, total	3,224,500	3,126,900	2,980,400	146,400	97,700	79,800	17,400
Male	1,607,100	1,560,300	1,489,000	71,300	46,800	36,100	10,400
Female	1,617,400	1,566,500	1,491,400	75,100	50,900	43,700	7,000
Economics	482,300	451,000	418,000	33,000	31,300	23,600	7,600
Male	363,400	342,400	321,400	21,000	21,000	15,200	5,600
Female	118,900	108,600	96,600	12,000	10,300	8,400	1,900
Political/related sciences	579,800	563,500	535,700	27,800	16,200	12,800	3,500
Male	368,600	359,700	340,900	18,900	8,800	7,000	1,900
Female	211,200	203,800	194,800	9,000	7,400	5,800	1,600
Psychology	1,177,600	1,153,200	1,107,200	46,000	24,400	22,100	2,100
Male	456,700	449,500	432,900	16,700	7,200	6,200	900
Female	720,900	703,700	674,400	29,300	17,200	16,000	1,300
Sociology/anthropology	635,300	621,600	601,100	20,500	13,700	11,700	2,000
Male	236,500	232,500	225,400	7,200	3,900	3,100	800
Female	398,900	389,100	375,700	13,300	9,800	8,600	1,200
Other social sciences	349,500	337,500	318,400	19,100	12,000	9,600	2,200
Male	182,000	176,100	168,500	7,600	5,900	4,600	1,200
Female	167,500	161,400	149,900	11,500	6,100	5,000	1,000
Engineering, total	2,216,700	2,062,300	1,809,100	253,200	154,400	119,600	34,200
Male	2,044,200	1,907,800	1,679,000	228,800	136,400	105,300	30,400
Female	172,400	154,400	130,000	24,400	18,000	14,300	3,700
Aerospace/related engineering	100,800	97,300	88,600	8,800	3,400	2,800	700
Male	96,400	93,000	84,600	8,400	3,400	2,800	600
Female	4,400	4,300	3,900	400	100	S	S
Chemical engineering	169,900	156,400	134,700	21,700	13,500	10,800	2,700
Male	143,000	132,500	115,500	17,000	10,500	8,200	2,300
Female	26,900	23,900	19,200	4,700	2,900	2,600	400
Civil/architectural engineering	365,000	334,600	285,200	49,300	30,400	24,600	5,600
Male	335,900	308,500	264,500	44,000	27,400	22,500	4,700
Female	29,100	26,000	20,700	5,300	3,100	2,100	1,000
Electrical/related engineering	648,700	599,200	519,400	79,800	49,500	38,100	11,200
Male	607,600	563,300	490,300	73,000	44,300	34,000	10,100
Female	41,100	35,900	29,100	6,800	5,200	4,100	1,100
Industrial engineering	126,900	118,700	110,300	8,500	8,200	6,900	1,300
Male	109,200	102,600	95,600	7,100	6,600	5,300	1,300
Female	17,700	16,100	14,700	1,400	1,600	1,500	100
Mechanical engineering	454,500	428,800	379,700	49,100	25,700	19,300	6,300
Male	433,400	409,100	362,000	47,100	24,300	18,400	5,800
Female	21,100	19,700	17,700	2,000	1,400	900	500

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

Table B-11. U.S. scientists and engineers, by level and field of highest degree attained, sex, and citizenship status: 1993

Level and field of highest degree, and sex	S&Es, total	U.S. citizen			Non-U.S. citizen		
		Total ¹	Native	Naturalized	Total ²	Permanent resident	Temporary resident
All degree levels³ — continued							
Other engineering	350,200	326,700	290,700	36,000	23,500	17,100	6,400
Male	318,600	298,700	266,500	32,200	20,000	14,200	5,700
Female	31,600	28,000	24,200	3,800	3,500	2,800	700
Non-S&E degrees, total	3,044,200	2,962,600	2,791,900	170,700	81,600	69,700	11,800
Male	2,054,300	1,999,000	1,884,300	114,800	55,300	47,000	8,300
Female	989,900	963,600	907,600	56,000	26,300	22,800	3,500
Bachelor's							
All degree fields, total	6,975,000	6,730,700	6,289,300	441,500	244,200	208,600	35,200
Male	4,555,000	4,402,300	4,111,900	290,500	152,600	129,400	22,800
Female	2,420,000	2,328,400	2,177,400	151,000	91,600	79,200	12,400
S&E degree fields, total	6,402,200	6,175,600	5,772,800	402,700	226,600	192,700	33,500
Male	4,168,200	4,026,600	3,761,600	265,000	141,600	119,700	21,500
Female	2,233,900	2,149,000	2,011,300	137,700	85,000	73,000	12,000
Sciences, total	4,726,000	4,578,600	4,334,100	244,400	147,400	125,000	22,200
Male	2,623,100	2,550,600	2,426,400	124,200	72,500	60,400	11,900
Female	2,102,900	2,028,000	1,907,800	120,200	74,900	64,600	10,300
Computer/math sciences, total	761,100	726,000	671,500	54,500	35,100	28,800	6,300
Male	473,000	452,000	421,400	30,700	21,000	17,900	3,100
Female	288,100	274,000	250,200	23,800	14,100	10,900	3,200
Computer/information sciences	374,000	354,200	319,900	34,300	19,900	16,500	3,300
Male	242,600	229,300	209,400	19,900	13,400	11,300	2,100
Female	131,400	124,900	110,500	14,400	6,500	5,300	1,200
Mathematical sciences	387,100	371,800	351,700	20,100	15,200	12,300	2,900
Male	230,400	222,800	212,000	10,800	7,600	6,600	1,000
Female	156,700	149,100	139,700	9,400	7,600	5,600	1,900
Life/related sciences, total	966,400	937,000	883,600	53,400	29,400	24,700	4,700
Male	545,600	533,400	509,100	24,300	12,100	10,400	1,700
Female	420,800	403,500	374,500	29,000	17,300	14,300	3,000
Agricultural/food sciences	192,000	188,700	181,400	7,300	3,300	2,500	800
Male	145,500	143,200	138,300	5,000	2,300	1,900	300
Female	46,500	45,500	43,200	2,300	1,000	500	500
Biological sciences	698,500	672,900	628,300	44,600	25,600	21,700	3,900
Male	341,400	331,900	313,700	18,200	9,500	8,100	1,400
Female	357,100	341,000	314,600	26,400	16,100	13,600	2,500
Environmental life sciences	75,900	75,400	73,800	1,500	500	500	S
Male	58,600	58,300	57,100	1,200	400	400	S
Female	17,300	17,100	16,700	400	200	200	S
Physical/related sciences, total	489,700	466,700	434,900	31,800	23,000	18,800	4,000
Male	366,800	353,000	333,700	19,300	13,800	10,700	3,000
Female	122,900	113,700	101,300	12,400	9,200	8,200	1,000
Chemistry, except biochemistry	231,800	219,300	197,600	21,700	12,500	10,800	1,700
Male	152,300	146,300	134,800	11,400	6,000	4,900	1,100
Female	79,500	73,000	62,700	10,300	6,500	6,000	500

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Table B-11. U.S. scientists and engineers, by level and field of highest degree attained, sex, and citizenship status: 1993

Level and field of highest degree, and sex	S&Es, total	U.S. citizen			Non-U.S. citizen		
		Total ¹	Native	Naturalized	Total ²	Permanent resident	Temporary resident
Bachelor's — continued							
Earth science, geology and oceanography	116,900	113,800	111,000	2,800	3,100	2,500	400
Male	97,900	95,800	93,500	2,300	2,100	1,600	300
Female	19,000	18,000	17,500	500	1,000	900	100
Physics/astronomy	91,300	85,400	80,800	4,600	5,900	4,200	1,700
Male	81,400	76,600	72,800	3,900	4,700	3,500	1,300
Female	9,900	8,700	8,000	700	1,200	800	400
Other physical sciences	24,700	24,300	22,800	1,400	400	400	S
Male	16,300	16,200	15,400	800	100	100	S
Female	8,300	8,100	7,500	600	200	200	S
Social/related sciences, total	2,508,800	2,448,900	2,344,000	104,800	59,900	52,700	7,200
Male	1,237,700	1,212,200	1,162,300	49,900	25,600	21,500	4,000
Female	1,271,100	1,236,700	1,181,800	55,000	34,400	31,200	3,200
Economics	407,100	387,500	363,200	24,300	19,600	16,800	2,800
Male	303,800	291,400	276,100	15,300	12,400	10,000	2,400
Female	103,300	96,100	87,100	9,000	7,200	6,800	400
Political/related sciences	489,100	478,300	456,700	21,700	10,700	8,700	2,000
Male	306,000	300,600	285,600	15,100	5,300	4,600	700
Female	183,100	177,700	171,100	6,600	5,400	4,100	1,300
Psychology	783,800	769,300	738,400	30,900	14,500	13,600	900
Male	292,100	288,900	277,700	11,200	3,300	3,000	300
Female	491,700	480,400	460,700	19,800	11,200	10,700	600
Sociology/anthropology	559,800	550,800	535,500	15,400	8,900	7,900	1,100
Male	197,900	195,900	191,500	4,400	1,900	1,500	500
Female	361,900	354,900	343,900	11,000	7,000	6,400	600
Other social sciences	269,000	262,900	250,400	12,500	6,200	5,600	500
Male	137,900	135,300	131,400	3,900	2,600	2,400	200
Female	131,100	127,600	119,000	8,600	3,500	3,200	400
Engineering, total	1,676,100	1,597,000	1,438,700	158,300	79,100	67,600	11,300
Male	1,545,100	1,476,000	1,335,200	140,900	69,100	59,200	9,600
Female	131,000	121,000	103,500	17,400	10,000	8,400	1,600
Aerospace/related engineering	73,700	72,100	65,500	6,600	1,600	1,500	200
Male	69,800	68,200	61,900	6,300	1,600	1,500	100
Female	3,900	3,800	3,500	300	S	S	S
Chemical engineering	127,500	120,000	106,500	13,400	7,500	6,700	700
Male	104,700	99,500	89,600	9,900	5,200	4,600	500
Female	22,800	20,400	17,000	3,500	2,300	2,100	200
Civil/architectural engineering	283,600	266,000	235,000	31,000	17,500	15,500	2,000
Male	260,900	245,200	217,500	27,700	15,700	14,200	1,500
Female	22,700	20,900	17,500	3,400	1,800	1,400	400
Electrical/related engineering	480,400	455,700	404,000	51,800	24,600	20,300	4,300
Male	449,100	427,400	380,700	46,700	21,700	17,900	3,800
Female	31,200	28,300	23,300	5,000	2,900	2,400	500

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Table B-11. U.S. scientists and engineers, by level and field of highest degree attained, sex, and citizenship status: 1993

Level and field of highest degree, and sex	S&Es, total	U.S. citizen			Non-U.S. citizen		
		Total ¹	Native	Naturalized	Total ²	Permanent resident	Temporary resident
Bachelor's — continued							
Industrial engineering	102,800	99,000	93,900	5,000	3,800	3,800	100
Male	88,900	85,900	81,700	4,200	3,000	3,000	100
Female	13,900	13,100	12,200	900	800	800	S
Mechanical engineering	374,100	359,600	326,600	33,000	14,500	11,500	2,800
Male	356,400	343,000	311,700	31,200	13,500	10,900	2,400
Female	17,700	16,600	14,800	1,800	1,000	600	400
Other engineering	233,700	224,100	206,700	17,400	9,600	8,300	1,300
Male	215,200	206,700	191,900	14,900	8,400	7,200	1,200
Female	18,500	17,400	14,800	2,500	1,100	1,100	100
Non-S&E degrees, total	572,800	555,200	516,400	38,700	17,600	15,900	1,700
Male	386,700	375,700	350,300	25,400	11,000	9,700	1,300
Female	186,100	179,500	166,100	13,300	6,600	6,200	400
Master's							
All degree fields, total	3,011,700	2,832,600	2,600,100	232,500	179,100	127,100	51,300
Male	1,930,800	1,803,400	1,641,200	162,200	127,300	88,200	38,600
Female	1,081,000	1,029,100	958,800	70,300	51,800	38,900	12,700
S&E degree fields, total	1,571,900	1,431,700	1,276,500	155,300	140,200	94,400	45,100
Male	1,051,900	950,800	839,400	111,400	101,000	66,100	34,500
Female	520,100	480,900	437,100	43,800	39,200	28,300	10,700
Sciences, total	1,123,600	1,041,300	959,800	81,400	82,400	55,700	26,300
Male	640,600	590,600	547,000	43,600	50,000	32,400	17,400
Female	483,000	450,700	412,800	37,900	32,400	23,400	8,800
Computer/math sciences, total	250,600	222,900	195,400	27,500	27,600	20,600	7,000
Male	171,700	152,000	133,700	18,300	19,600	14,100	5,500
Female	78,900	70,900	61,700	9,200	8,000	6,500	1,500
Computer/information sciences	134,200	114,000	95,600	18,400	20,200	15,700	4,500
Male	96,100	81,200	68,600	12,600	14,900	11,100	3,800
Female	38,100	32,800	27,000	5,800	5,300	4,600	700
Mathematical sciences	116,400	108,900	99,700	9,200	7,500	4,900	2,500
Male	75,600	70,800	65,100	5,800	4,700	3,000	1,700
Female	40,800	38,100	34,700	3,400	2,700	1,900	800
Life/related sciences, total	187,500	174,400	161,600	12,800	13,100	7,600	5,600
Male	104,200	98,200	93,500	4,700	6,000	3,100	2,900
Female	83,400	76,300	68,100	8,100	7,100	4,400	2,700
Agricultural/food sciences	33,100	29,500	27,800	1,800	3,600	1,900	1,600
Male	23,500	21,400	20,800	700	2,100	1,100	1,000
Female	9,600	8,100	7,000	1,100	1,500	800	700
Biological sciences	137,800	129,200	118,500	10,700	8,600	5,000	3,500
Male	70,100	67,000	63,300	3,700	3,100	1,500	1,600
Female	67,600	62,100	55,200	6,900	5,500	3,500	2,000
Environmental life sciences	16,700	15,700	15,300	400	1,000	600	400
Male	10,500	9,700	9,400	300	800	500	300
Female	6,200	6,000	5,900	100	200	100	S

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

Table B-11. U.S. scientists and engineers, by level and field of highest degree attained, sex, and citizenship status: 1993

Level and field of highest degree, and sex	S&Es, total	U.S. citizen			Non-U.S. citizen		
		Total ¹	Native	Naturalized	Total ²	Permanent resident	Temporary resident
Master's — continued							
Physical/related sciences, total	139,200	125,400	114,000	11,500	13,700	8,400	5,300
Male	108,100	98,000	90,600	7,400	10,100	5,900	4,200
Female	31,100	27,500	23,400	4,100	3,600	2,500	1,100
Chemistry, except biochemistry	44,000	38,700	33,100	5,500	5,300	3,600	1,700
Male	29,900	26,600	23,800	2,800	3,400	2,000	1,300
Female	14,000	12,100	9,300	2,800	1,900	1,500	400
Earth science, geology and oceanography	41,500	39,200	37,100	2,000	2,300	1,400	900
Male	32,800	30,600	28,900	1,700	2,100	1,400	800
Female	8,700	8,500	8,200	300	200	100	100
Physics/astronomy	39,100	33,600	30,400	3,300	5,500	3,200	2,300
Male	33,900	29,800	27,400	2,400	4,100	2,300	1,800
Female	5,200	3,800	3,000	800	1,400	900	500
Other physical sciences	8,700	8,100	7,800	400	600	200	400
Male	6,600	6,200	5,900	300	500	200	300
Female	2,100	2,000	1,800	100	100	S	100
Social/related sciences, total	546,300	518,500	488,800	29,600	27,900	19,200	8,300
Male	256,600	242,400	229,200	13,200	14,200	9,200	4,900
Female	289,700	276,100	259,600	16,400	13,600	10,000	3,400
Economics	52,300	43,500	37,000	6,500	8,700	4,800	3,800
Male	39,600	33,600	29,700	3,800	6,100	3,600	2,400
Female	12,600	10,000	7,300	2,700	2,700	1,200	1,400
Political/related sciences	73,300	69,000	64,400	4,700	4,200	3,100	1,200
Male	48,500	46,200	43,600	2,600	2,300	1,400	800
Female	24,800	22,800	20,700	2,100	2,000	1,600	300
Psychology	304,300	296,800	286,300	10,500	7,500	6,200	1,100
Male	111,800	109,200	106,100	3,100	2,600	2,000	500
Female	192,400	187,600	180,200	7,300	4,900	4,200	700
Sociology/anthropology	51,500	48,000	44,700	3,300	3,500	2,600	800
Male	23,300	21,900	20,500	1,400	1,300	1,000	400
Female	28,200	26,100	24,200	1,900	2,100	1,600	500
Other social sciences	65,100	61,100	56,400	4,700	4,000	2,400	1,400
Male	33,400	31,400	29,200	2,300	2,000	1,100	800
Female	31,700	29,600	27,200	2,400	2,000	1,300	500
Engineering, total	448,300	390,500	316,700	73,800	57,800	38,600	18,900
Male	411,300	360,200	292,400	67,900	51,000	33,700	17,000
Female	37,000	30,200	24,300	5,900	6,800	4,900	1,900
Aerospace/related engineering	23,300	22,100	20,600	1,500	1,300	900	400
Male	22,900	21,700	20,200	1,400	1,200	900	400
Female	400	400	400	100	S	S	S
Chemical engineering	28,800	25,000	19,600	5,400	3,800	2,500	1,300
Male	25,400	22,100	17,800	4,300	3,200	2,100	1,200
Female	3,400	2,900	1,800	1,000	500	400	100

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

Table B-11. U.S. scientists and engineers, by level and field of highest degree attained, sex, and citizenship status: 1993

Level and field of highest degree, and sex	S&Es, total	U.S. citizen			Non-U.S. citizen		
		Total ¹	Native	Naturalized	Total ²	Permanent resident	Temporary resident
Master's — continued							
Civil/architectural engineering	72,600	61,800	46,000	15,700	10,800	7,500	3,100
Male	66,500	56,900	42,900	14,000	9,600	6,800	2,600
Female	6,100	4,900	3,200	1,700	1,200	700	500
Electrical/related engineering	145,100	125,200	102,500	22,700	19,900	13,800	6,100
Male	136,000	118,200	97,000	21,200	17,800	12,200	5,500
Female	9,100	7,000	5,500	1,500	2,100	1,500	600
Industrial engineering	21,600	18,000	15,000	3,000	3,600	2,400	1,200
Male	18,200	15,200	12,700	2,500	3,000	1,900	1,100
Female	3,400	2,800	2,300	500	600	500	100
Mechanical engineering	69,000	59,900	46,500	13,400	9,000	6,200	2,900
Male	65,800	57,100	43,800	13,200	8,700	5,900	2,800
Female	3,200	2,900	2,700	200	300	200	100
Other engineering	87,700	78,400	66,400	12,100	9,300	5,300	4,000
Male	76,500	69,000	57,900	11,100	7,400	3,900	3,500
Female	11,300	9,400	8,400	900	1,900	1,300	500
Non-S&E degrees, total	1,439,800	1,400,800	1,323,600	77,300	38,900	32,800	6,200
Male	878,900	852,600	801,800	50,800	26,300	22,100	4,100
Female	560,900	548,200	521,700	26,500	12,700	10,600	2,000
Doctorate							
All degree fields, total	706,700	625,700	540,200	85,400	81,000	61,400	19,200
Male	554,600	489,600	420,000	69,500	65,000	48,900	15,700
Female	152,100	136,200	120,200	15,900	16,000	12,400	3,500
S&E degree fields, total	589,600	516,300	438,900	77,400	73,400	55,100	17,900
Male	468,700	409,400	345,900	63,400	59,400	44,500	14,600
Female	120,900	107,000	93,000	14,000	14,000	10,600	3,300
Sciences, total	497,400	441,600	385,200	56,300	55,900	41,800	13,800
Male	380,900	337,800	294,400	43,300	43,100	32,100	10,800
Female	116,600	103,800	90,800	13,000	12,800	9,700	3,100
Computer/math sciences, total	34,800	27,700	23,100	4,600	7,100	4,900	2,200
Male	30,400	24,100	20,200	3,900	6,300	4,300	2,000
Female	4,400	3,600	2,900	700	800	600	200
Computer/information sciences	6,900	4,300	3,500	800	2,600	1,800	800
Male	5,900	3,600	2,900	700	2,300	1,600	700
Female	1,000	700	600	200	300	200	100
Mathematical sciences	27,900	23,400	19,600	3,800	4,500	3,100	1,400
Male	24,500	20,500	17,300	3,200	4,000	2,700	1,300
Female	3,300	2,800	2,300	600	500	400	100
Life/related sciences, total	168,700	147,800	125,100	22,600	20,900	15,400	5,500
Male	124,100	109,500	93,100	16,300	14,600	10,700	3,800
Female	44,600	38,300	32,000	6,300	6,300	4,600	1,600
Agricultural/food sciences	18,600	16,800	14,900	1,900	1,800	1,200	500
Male	16,000	14,700	13,100	1,500	1,300	900	400
Female	2,600	2,100	1,800	300	500	300	100

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

Table B-11. U.S. scientists and engineers, by level and field of highest degree attained, sex, and citizenship status: 1993

Level and field of highest degree, and sex	S&Es, total	U.S. citizen			Non-U.S. citizen		
		Total ¹	Native	Naturalized	Total ²	Permanent resident	Temporary resident
Doctorate — continued							
Biological sciences	145,700	126,800	106,300	20,500	18,900	13,900	4,900
Male	104,100	90,900	76,300	14,600	13,200	9,700	3,400
Female	41,600	35,900	30,000	5,900	5,700	4,200	1,500
Environmental life sciences	4,400	4,200	4,000	200	200	200	S
Male	4,000	3,900	3,700	200	100	100	S
Female	400	300	300	S	100	100	S
Physical/related sciences, total	131,800	113,700	95,900	17,800	18,200	13,800	4,300
Male	117,700	102,400	87,300	15,100	15,300	11,800	3,500
Female	14,100	11,200	8,600	2,600	2,900	2,000	800
Chemistry, except biochemistry	69,300	60,200	50,400	9,700	9,100	7,200	1,900
Male	60,100	52,800	44,800	8,000	7,200	5,800	1,500
Female	9,200	7,400	5,700	1,700	1,800	1,400	400
Earth science, geology and oceanography	17,600	15,800	14,300	1,600	1,800	1,400	400
Male	15,900	14,400	13,000	1,500	1,500	1,200	300
Female	1,600	1,400	1,300	100	300	200	100
Physics/astronomy	43,500	36,400	30,200	6,200	7,000	5,100	2,000
Male	40,600	34,200	28,700	5,500	6,400	4,600	1,700
Female	2,900	2,200	1,500	800	700	400	200
Other physical sciences	1,400	1,300	1,000	200	200	200	S
Male	1,200	1,000	800	200	200	200	S
Female	300	300	200	100	S	S	S
Social/related sciences, total	162,200	152,500	141,100	11,300	9,700	7,700	1,900
Male	108,600	101,800	93,800	8,000	6,800	5,300	1,500
Female	53,500	50,700	47,300	3,300	2,900	2,500	400
Economics	22,900	19,900	17,800	2,100	3,000	1,900	1,000
Male	19,900	17,400	15,500	1,800	2,600	1,600	900
Female	3,000	2,600	2,200	300	400	300	100
Political/related sciences	17,400	16,100	14,700	1,500	1,300	1,000	300
Male	14,100	12,900	11,700	1,200	1,200	900	300
Female	3,300	3,300	3,000	200	100	100	S
Psychology	82,400	80,100	76,100	4,000	2,300	2,100	200
Male	48,600	47,500	45,300	2,200	1,100	1,000	100
Female	33,800	32,600	30,800	1,800	1,200	1,100	S
Sociology/anthropology	24,100	22,700	20,900	1,800	1,300	1,200	100
Male	15,400	14,700	13,300	1,400	700	600	S
Female	8,700	8,000	7,600	400	700	500	100
Other social sciences	15,400	13,600	11,700	1,900	1,800	1,500	300
Male	10,700	9,400	8,000	1,400	1,300	1,100	200
Female	4,700	4,200	3,700	500	600	400	100
Engineering, total	92,200	74,800	53,700	21,100	17,400	13,300	4,000
Male	87,800	71,600	51,500	20,100	16,300	12,400	3,800
Female	4,400	3,200	2,200	1,000	1,200	900	200

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

Table B-11. U.S. scientists and engineers, by level and field of highest degree attained, sex, and citizenship status: 1993

Level and field of highest degree, and sex	S&Es, total	U.S. citizen			Non-U.S. citizen		
		Total ¹	Native	Naturalized	Total ²	Permanent resident	Temporary resident
Doctorate — continued							
Aerospace/related engineering	3,700	3,200	2,500	700	600	400	100
Male	3,700	3,100	2,500	600	600	400	100
Female	S	S	S	S	S	S	S
Chemical engineering	13,600	11,400	8,500	2,900	2,200	1,500	700
Male	12,900	10,800	8,100	2,700	2,100	1,500	600
Female	700	600	400	200	100	S	S
Civil/architectural engineering	8,900	6,800	4,200	2,600	2,100	1,500	600
Male	8,500	6,500	4,100	2,400	2,100	1,500	600
Female	300	300	100	200	100	S	S
Electrical/related engineering	23,200	18,300	12,900	5,400	4,900	4,000	900
Male	22,500	17,700	12,600	5,200	4,700	3,900	800
Female	800	600	400	200	200	200	S
Industrial engineering	2,500	1,800	1,400	400	700	700	100
Male	2,100	1,500	1,100	400	500	500	100
Female	400	200	200	S	200	200	S
Mechanical engineering	11,500	9,300	6,600	2,700	2,200	1,600	600
Male	11,200	9,100	6,400	2,600	2,100	1,500	600
Female	300	200	100	100	100	100	S
Other engineering	28,800	24,100	17,600	6,500	4,600	3,500	1,100
Male	27,000	22,900	16,700	6,200	4,100	3,100	1,000
Female	1,800	1,300	900	300	500	400	100
Non-S&E degrees, total	117,100	109,400	101,400	8,000	7,700	6,300	1,300
Male	85,800	80,200	74,100	6,100	5,600	4,500	1,100
Female	31,200	29,200	27,300	1,900	2,000	1,800	200

- 1 Includes U.S. citizens who did not specify mode of gaining citizenship
- 2 Includes non-citizens who did not specify visa status
- 3 Includes professional degrees

NOTES: The term "Scientists and Engineers" (S&Es) includes all persons who have ever received a bachelor's degree or higher in a science or engineering (S&E) field, plus persons holding a non-S&E bachelor's or higher degree who 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)