

**Table C-12. Employed U.S. scientists and engineers, by level and field of highest degree attained and geographic region of employment: 1997**

Level and field of highest degree	Employed S&Es, total <sup>1</sup>	Geographic region of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All degree levels<sup>2</sup></b>										
<b>All degree fields, total</b> .....	10,585,600	803,100	1,646,800	1,537,200	723,700	1,912,700	407,700	888,800	669,700	1,974,600
<b>S&amp;E degree fields, total</b> .....	7,704,000	568,000	1,141,900	1,105,400	542,300	1,402,000	303,300	669,700	497,600	1,454,200
<b>Sciences, total</b> .....	5,794,700	432,000	883,700	803,900	430,000	1,076,300	227,900	475,600	371,000	1,079,900
<b>Computer/math sciences, total</b> .....	1,003,300	71,200	165,500	135,000	72,900	180,400	39,900	107,300	61,600	165,700
Computer/information sciences .....	543,800	36,800	93,200	74,400	36,100	102,300	13,600	59,900	31,200	93,600
Mathematical sciences .....	459,500	34,400	72,300	60,600	36,800	78,100	26,300	47,400	30,500	72,000
<b>Life/related sciences, total</b> .....	1,204,700	84,300	158,700	169,900	112,100	205,100	54,100	105,000	79,500	233,700
Agricultural/food sciences .....	218,700	10,900	16,400	33,700	34,600	32,000	12,100	24,400	13,300	41,000
Biological sciences .....	889,100	65,900	129,200	126,500	71,800	156,100	37,900	73,900	58,600	167,600
Environmental life sciences .....	96,900	7,500	13,100	9,700	5,600	16,900	4,200	6,600	7,700	25,100
<b>Physical/related sciences, total</b> .....	619,200	41,900	88,000	85,300	34,800	112,700	26,800	63,100	53,500	111,000
Chemistry, except biochemistry .....	275,100	18,300	47,500	45,500	17,900	53,100	12,300	22,500	15,500	42,100
Earth science, geology and oceanography .....	146,900	8,800	14,700	15,400	5,000	22,400	4,600	27,500	17,300	30,800
Physics/astronomy .....	144,100	12,400	19,300	15,700	6,500	26,100	5,600	9,600	15,800	32,300
Other physical sciences .....	53,000	2,400	6,500	8,600	5,400	11,100	4,300	3,600	5,000	5,900
<b>Social/related sciences, total</b> .....	2,967,600	234,600	471,500	413,700	210,100	578,100	107,100	200,200	176,400	569,500
Economics .....	402,800	31,800	69,400	59,200	29,200	74,400	13,400	25,500	20,800	77,500
Political/related sciences .....	558,700	44,600	86,100	78,900	32,900	136,200	21,000	40,300	28,000	89,300
Psychology .....	1,112,800	94,800	191,400	158,700	76,200	197,000	38,900	79,500	64,100	210,900
Sociology/anthropology .....	558,600	43,800	80,000	67,500	44,100	105,200	23,800	33,300	38,600	121,200
Other social sciences .....	334,800	19,500	44,500	49,400	27,700	65,400	10,000	21,600	24,800	70,600
<b>Engineering, total</b> .....	1,909,200	136,100	258,200	301,500	112,300	325,700	75,400	194,200	126,500	374,300
Aerospace/related engineering .....	77,400	2,900	5,900	11,500	5,800	16,400	3,900	7,100	4,600	19,300
Chemical engineering .....	138,400	6,900	20,400	21,700	6,900	23,800	5,800	24,200	9,500	19,000
Civil/architectural engineering .....	322,300	22,300	44,900	43,700	20,300	59,400	11,600	25,000	24,700	69,900
Electrical/related engineering .....	582,100	46,100	74,200	80,600	36,300	90,100	22,100	54,100	42,400	134,100
Industrial engineering .....	105,400	4,300	16,500	22,500	6,000	21,800	5,600	11,000	3,800	13,300
Mechanical engineering .....	386,100	29,700	52,200	79,600	20,600	61,400	14,400	37,200	20,800	69,200
Other engineering .....	297,500	23,800	44,100	41,900	16,500	52,800	11,900	35,700	20,700	49,600

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

**Table C-12. Employed U.S. scientists and engineers, by level and field of highest degree attained and geographic region of employment: 1997**

Level and field of highest degree	Employed S&Es, total <sup>1</sup>	Geographic region of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All degree levels<sup>2</sup> — continued</b>										
<b>Non-S&amp;E degrees, total</b> .....	2,881,700	235,100	504,900	431,800	181,400	510,800	104,400	219,000	172,100	520,400
<b>Bachelor's</b>										
<b>All degree fields, total</b> .....	6,193,700	449,500	887,700	907,000	459,400	1,115,800	242,400	547,900	399,100	1,170,000
<b>S&amp;E degree fields, total</b> .....	5,683,700	416,400	813,500	829,000	420,800	1,029,500	223,400	496,700	366,400	1,073,800
<b>Sciences, total</b> .....	4,303,400	319,400	636,400	600,000	335,100	792,700	166,300	350,400	276,600	815,800
<b>Computer/math sciences, total</b> .....	721,600	49,800	110,700	98,900	59,300	126,800	29,900	82,100	45,000	116,400
Computer/information sciences .....	385,000	23,900	59,700	57,100	30,600	70,200	10,700	47,600	20,800	62,400
Mathematical sciences .....	336,600	25,900	51,000	41,800	28,700	56,500	19,200	34,500	24,200	54,000
<b>Life/related sciences, total</b> .....	884,500	60,700	112,900	122,000	87,300	144,300	39,300	77,600	59,100	179,600
Agricultural/food sciences .....	175,200	8,900	13,500	25,900	29,100	25,500	9,400	18,600	10,600	33,400
Biological sciences .....	634,500	45,800	90,600	88,500	53,900	106,000	26,000	54,100	42,400	125,800
Environmental life sciences .....	74,800	6,100	8,800	7,600	4,200	12,800	3,800	4,900	6,100	20,300
<b>Physical/related sciences, total</b> .....	381,900	24,300	50,900	53,900	23,200	70,100	18,100	38,100	32,100	69,600
Chemistry, except biochemistry .....	176,100	10,000	27,700	28,600	12,200	36,500	8,700	13,600	10,000	28,500
Earth science, geology and oceanography .....	96,300	6,300	9,300	10,500	2,700	15,000	2,600	17,300	11,700	20,700
Physics/astronomy .....	68,800	6,700	8,800	7,400	3,500	10,900	3,300	4,300	7,100	16,000
Other physical sciences .....	40,700	1,400	5,100	7,400	4,900	7,600	3,500	2,800	3,300	4,400
<b>Social/related sciences, total</b> .....	2,315,500	184,600	361,800	325,100	165,300	451,500	79,000	152,600	140,300	450,200
Economics .....	337,300	27,600	58,400	51,500	23,700	58,900	11,300	20,100	16,600	68,100
Political/related sciences .....	476,100	40,100	70,500	69,600	30,800	109,800	17,100	35,000	25,500	76,900
Psychology .....	750,000	64,500	130,000	107,100	49,200	139,300	23,800	51,500	42,600	141,000
Sociology/anthropology .....	496,300	39,400	69,600	59,200	39,300	96,000	20,000	30,100	34,300	107,500
Other social sciences .....	255,900	13,000	33,300	37,800	22,400	47,500	6,900	15,900	21,300	56,700

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

**Table C-12. Employed U.S. scientists and engineers, by level and field of highest degree attained and geographic region of employment: 1997**

Level and field of highest degree	Employed S&Es, total <sup>1</sup>	Geographic region of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>Bachelor's — continued</b>										
<b>Engineering, total</b> .....	1,380,300	97,000	177,100	229,000	85,700	236,800	57,200	146,300	89,800	258,000
Aerospace/related engineering .....	55,200	1,700	4,200	9,000	4,400	11,000	2,800	5,800	3,400	12,900
Chemical engineering .....	102,100	4,800	13,300	16,600	5,300	17,500	4,200	17,500	8,100	14,600
Civil/architectural engineering .....	243,800	17,400	33,000	35,600	14,800	47,600	7,800	18,800	18,200	50,200
Electrical/related engineering .....	413,200	31,700	48,500	61,900	28,000	63,900	19,100	40,400	30,000	88,200
Industrial engineering .....	79,300	3,300	13,300	17,600	5,100	16,100	3,800	7,100	2,900	9,800
Mechanical engineering .....	308,500	22,400	40,100	63,700	16,800	51,500	11,800	32,200	15,400	53,800
Other engineering .....	178,200	15,900	24,700	24,600	11,300	29,100	7,700	24,400	11,900	28,400
<b>Non-S&amp;E degrees, total</b> .....	510,000	33,100	74,200	78,100	38,600	86,400	19,000	51,200	32,800	96,200
<b>Master's</b>										
<b>All degree fields, total</b> .....	2,819,800	232,200	486,500	401,400	161,700	510,000	104,000	226,000	176,100	517,000
<b>S&amp;E degree fields, total</b> .....	1,431,600	105,100	229,500	193,300	86,100	265,000	56,200	128,200	91,500	272,500
<b>Sciences, total</b> .....	1,001,000	72,900	164,000	135,800	63,900	191,000	41,700	89,300	62,700	177,100
<b>Computer/math sciences, total</b> .....	244,700	18,300	48,400	31,100	11,500	47,300	8,300	22,900	14,300	41,600
Computer/information sciences .....	148,800	12,200	31,600	16,200	5,000	30,900	2,700	11,500	9,800	28,300
Mathematical sciences .....	95,800	6,100	16,800	14,900	6,500	16,500	5,700	11,400	4,400	13,300
<b>Life/related sciences, total</b> .....	156,600	11,100	20,600	25,000	12,600	28,000	7,000	14,500	10,900	26,500
Agricultural/food sciences .....	26,700	1,400	1,300	5,200	2,800	3,700	1,500	4,400	1,400	5,100
Biological sciences .....	112,500	8,500	15,400	18,100	8,600	21,000	5,500	8,800	8,500	18,000
Environmental life sciences .....	17,400	1,200	3,900	1,800	1,200	3,300	100	1,400	1,000	3,400
<b>Physical/related sciences, total</b> .....	114,500	7,000	16,400	14,600	5,700	21,500	4,700	15,100	11,400	17,900
Chemistry, except biochemistry .....	36,500	2,900	7,300	6,400	1,600	6,300	1,500	3,800	2,400	4,200
Earth science, geology and oceanography .....	34,400	1,100	4,100	3,500	1,900	4,600	1,400	8,100	2,900	6,600
Physics/astronomy .....	33,200	2,200	3,900	3,800	1,700	7,400	1,100	2,600	4,600	5,900
Other physical sciences .....	10,500	800	1,100	1,000	500	3,100	700	700	1,400	1,200

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

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Level and field of highest degree	Employed S&Es, total <sup>1</sup>	Geographic region of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>Master's — continued</b>										
<b>Social/related sciences, total</b> .....	485,300	36,500	78,500	65,000	34,100	94,200	21,600	36,800	26,100	91,100
Economics .....	44,000	2,300	7,600	4,900	4,000	9,700	1,200	4,100	3,300	6,300
Political/related sciences .....	66,000	2,900	13,400	6,700	1,000	22,400	3,100	4,500	1,800	9,800
Psychology .....	271,500	23,500	42,800	38,700	21,600	41,500	11,700	22,000	16,100	53,400
Sociology/anthropology .....	39,500	2,600	6,000	5,400	3,000	5,500	2,800	1,700	2,500	10,000
Other social sciences .....	64,300	5,300	8,700	9,300	4,500	15,200	2,700	4,600	2,400	11,600
<b>Engineering, total</b> .....	430,600	32,200	65,500	57,500	22,200	74,000	14,500	39,000	28,900	95,400
Aerospace/related engineering .....	18,200	1,000	1,300	2,100	1,000	4,400	900	1,000	1,000	5,300
Chemical engineering .....	23,000	1,300	4,200	3,200	900	4,300	1,200	4,300	600	2,900
Civil/architectural engineering .....	69,200	4,200	10,900	6,900	5,100	10,300	3,500	5,300	5,300	17,600
Electrical/related engineering .....	142,700	12,300	21,300	15,800	7,300	22,300	2,300	11,700	10,500	38,500
Industrial engineering .....	22,800	1,000	2,700	4,200	800	5,200	1,600	3,500	700	2,900
Mechanical engineering .....	65,800	6,500	10,600	13,500	3,200	8,400	2,100	4,100	4,200	12,900
Other engineering .....	89,100	5,800	14,600	11,900	3,900	19,000	3,000	8,900	6,600	15,300
<b>Non-S&amp;E degrees, total</b> .....	1,388,200	127,100	257,000	208,100	75,600	245,000	47,800	97,800	84,600	244,500
<b>Doctorate</b>										
<b>All degree fields, total</b> .....	696,000	54,100	115,100	98,600	46,300	128,300	29,800	51,800	46,900	124,100
<b>S&amp;E degree fields, total</b> .....	580,300	46,300	96,800	81,400	35,400	105,600	23,600	44,200	39,300	106,600
<b>Sciences, total</b> .....	482,000	39,300	81,300	66,400	31,000	90,700	20,000	35,300	31,500	85,700
<b>Computer/math sciences, total</b> .....	36,900	3,000	6,400	4,900	2,100	6,300	1,600	2,400	2,400	7,600
Computer/information sciences .....	9,700	600	1,800	1,000	500	1,200	200	800	500	2,800
Mathematical sciences .....	27,200	2,400	4,500	3,900	1,600	5,100	1,400	1,600	1,800	4,700
<b>Life/related sciences, total</b> .....	162,500	12,400	25,100	22,900	12,300	32,200	7,900	12,900	9,500	27,300
Agricultural/food sciences .....	16,800	700	1,600	2,600	2,700	2,800	1,200	1,500	1,300	2,500
Biological sciences .....	141,200	11,600	23,100	19,900	9,300	28,500	6,400	11,000	7,700	23,600
Environmental life sciences .....	4,500	100	400	400	200	900	300	300	600	1,200

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

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Level and field of highest degree	Employed S&Es, total <sup>1</sup>	Geographic region of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>Doctorate — continued</b>										
<b>Physical/related sciences, total</b> .....	122,200	10,600	20,600	16,800	5,900	21,100	4,000	9,900	9,800	23,200
Chemistry, except biochemistry .....	62,500	5,400	12,500	10,600	4,100	10,300	2,100	5,100	3,000	9,300
Earth science, geology and oceanography .....	16,100	1,400	1,300	1,400	400	2,800	600	2,100	2,500	3,500
Physics/astronomy .....	41,800	3,600	6,600	4,500	1,300	7,700	1,200	2,700	4,000	10,100
Other physical sciences .....	1,800	100	300	200	S	400	100	100	300	300
<b>Social/related sciences, total</b> .....	160,500	13,300	29,200	21,800	10,700	31,000	6,500	10,200	9,800	27,600
Economics .....	21,500	1,900	3,300	2,800	1,500	5,800	800	1,300	1,000	3,000
Political/related sciences .....	16,500	1,600	2,300	2,500	1,100	4,000	900	800	700	2,500
Psychology .....	85,000	6,700	16,800	11,200	5,500	14,800	3,400	5,400	5,200	15,900
Sociology/anthropology .....	22,800	1,900	4,400	3,000	1,800	3,800	1,000	1,500	1,700	3,700
Other social sciences .....	14,600	1,300	2,400	2,300	800	2,700	400	1,100	1,200	2,400
<b>Engineering, total</b> .....	98,200	6,900	15,500	14,900	4,400	14,900	3,600	8,900	7,800	20,900
Aerospace/related engineering .....	4,000	300	300	400	400	900	100	200	200	1,000
Chemical engineering .....	13,300	800	2,900	1,900	600	2,000	500	2,300	900	1,500
Civil/architectural engineering .....	9,400	700	1,000	1,200	400	1,500	400	900	1,200	2,100
Electrical/related engineering .....	26,300	2,000	4,500	2,900	1,000	3,900	700	2,000	1,900	7,400
Industrial engineering .....	3,300	100	500	700	100	500	200	300	200	600
Mechanical engineering .....	11,800	900	1,500	2,500	500	1,500	500	800	1,200	2,500
Other engineering .....	30,100	2,100	4,800	5,400	1,400	4,700	1,300	2,400	2,200	5,800
<b>Non-S&amp;E degrees, total</b> .....	115,800	7,800	18,300	17,200	10,900	22,700	6,200	7,600	7,500	17,600

<sup>1</sup> Includes individuals employed in the U.S. who reported employer address outside the U.S., not shown separately

<sup>2</sup> Includes professional degrees

**NOTES:** The term "Scientists and Engineers" (S&Es) includes all persons who have ever received a bachelor's degree or higher in a science or engineering (S&E) field, plus persons holding a non-S&E bachelor's or higher degree who were employed in a S&E occupation during either the 1993, 1995 or 1997 SESTAT surveys. Figures are rounded to nearest hundred. Details may not add to total because of rounding.

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

**SOURCE:** National Science Foundation/Science Resources Studies Division, 1997 SESTAT (Scientists and Engineers Statistical Data System)