

Table C-12. Employed U.S. scientists and engineers, by level and field of highest degree attained and geographic region of employment: 1993

Level and field of highest degree	Employed S&Es, total ¹	Geographic region of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All degree levels²										
All degree fields, total	9,793,500	766,400	1,600,800	1,395,200	647,700	1,717,800	376,200	833,200	560,700	1,888,100
S&E degree fields, total	7,035,800	537,800	1,115,700	979,700	472,400	1,239,200	267,000	621,800	412,100	1,382,800
Sciences, total	5,202,100	407,400	847,600	701,700	373,300	933,000	190,800	429,300	300,800	1,013,100
Computer/math sciences, total	918,000	63,600	157,000	127,200	61,300	165,700	38,700	99,600	47,300	156,500
Computer/information sciences	477,400	31,800	82,100	71,200	27,800	90,000	14,800	51,300	23,300	84,600
Mathematical sciences	440,600	31,800	75,000	56,000	33,500	75,600	24,000	48,300	24,000	71,900
Life/related sciences, total	1,073,100	75,400	148,800	152,300	94,500	175,700	42,200	96,500	67,300	220,000
Agricultural/food sciences	204,300	9,800	17,300	28,200	30,300	29,000	10,300	23,000	15,100	41,300
Biological sciences	785,100	58,500	121,000	113,800	58,600	133,300	29,200	68,300	45,900	156,100
Environmental life sciences	83,700	7,100	10,400	10,200	5,700	13,400	2,800	5,300	6,300	22,500
Physical/related sciences, total	599,800	40,400	95,900	80,000	32,100	109,100	26,900	62,800	46,900	105,200
Chemistry, except biochemistry	262,800	18,400	54,000	41,800	15,400	47,200	12,100	20,900	12,600	40,200
Earth science, geology and oceanography	144,100	7,700	14,200	14,000	5,500	20,400	5,400	29,500	18,300	29,000
Physics/astronomy	142,100	12,300	20,200	14,500	6,400	30,200	4,500	9,900	12,800	31,200
Other physical sciences	26,700	1,000	7,000	1,600	2,400	4,700	1,100	2,000	2,500	4,400
Social/related sciences, total	2,611,200	228,000	445,800	342,200	185,300	482,500	83,000	170,400	139,400	531,400
Economics	395,000	33,800	74,500	54,700	29,600	70,800	11,600	24,800	17,900	76,600
Political/related sciences	481,400	44,600	81,300	57,100	29,400	114,700	15,100	31,100	25,300	82,100
Psychology	960,700	88,400	173,700	132,200	65,700	163,400	29,300	65,900	45,600	195,500
Sociology/anthropology	485,900	41,000	77,100	58,700	36,400	85,400	18,200	27,400	30,800	110,200
Other social sciences	288,200	20,200	39,200	39,500	24,100	48,200	8,800	21,100	19,700	67,000
Engineering, total	1,833,700	130,400	268,200	278,100	99,100	306,200	76,200	192,500	111,300	369,700
Aerospace/related engineering	78,900	3,500	6,900	10,200	4,100	16,400	3,300	6,600	6,800	21,100
Chemical engineering	135,000	7,700	20,700	22,200	7,200	21,100	5,500	25,100	5,500	20,000
Civil/architectural engineering	310,300	19,800	46,800	41,800	18,100	54,000	12,700	26,500	20,400	69,800
Electrical/related engineering	544,300	42,200	77,300	76,000	31,200	85,100	22,200	48,400	38,700	122,600
Industrial engineering	103,300	4,800	15,300	18,500	5,900	20,100	7,300	14,200	3,300	13,600
Mechanical engineering	371,500	28,700	54,200	72,600	16,700	61,100	13,200	36,800	18,400	69,400
Other engineering	289,900	23,700	47,000	36,700	16,000	48,400	11,900	34,400	18,200	53,200

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: 1993

Level and field of highest degree	Employed S&Es, total ¹	Geographic region of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All degree levels² — continued										
Non-S&E degrees, total	2,757,700	228,700	485,100	415,500	175,300	478,600	109,200	211,400	148,700	505,200
Bachelor's										
All degree fields, total	5,727,200	441,000	870,500	803,600	411,000	1,005,200	218,800	519,200	326,400	1,125,800
S&E degree fields, total	5,172,600	402,100	791,900	720,900	367,200	905,800	194,400	464,700	298,600	1,021,600
Sciences, total	3,814,400	307,900	604,200	504,100	289,200	677,900	134,400	315,000	218,100	759,700
Computer/math sciences, total	663,800	45,900	104,300	93,400	49,900	116,600	28,300	76,800	33,900	113,800
Computer/information sciences	346,200	20,900	52,100	55,200	24,500	63,900	12,500	41,700	16,300	58,600
Mathematical sciences	317,700	25,000	52,100	38,200	25,400	52,700	15,900	35,100	17,600	55,200
Life/related sciences, total	773,600	56,000	103,700	104,600	73,200	121,300	28,400	69,100	50,000	167,200
Agricultural/food sciences	162,200	8,200	13,700	21,200	25,200	22,500	7,700	17,600	12,400	33,700
Biological sciences	546,400	41,800	82,900	75,200	43,400	88,300	18,600	47,800	32,900	115,500
Environmental life sciences	65,000	6,000	7,100	8,200	4,500	10,500	2,200	3,700	4,700	18,000
Physical/related sciences, total	372,500	22,600	57,000	48,500	22,700	69,800	17,400	40,100	26,800	67,400
Chemistry, except biochemistry	168,800	10,600	32,800	25,300	10,800	32,500	8,700	13,000	7,500	27,500
Earth science, geology and oceanography	94,700	4,400	8,500	8,800	3,900	14,800	2,800	20,400	11,800	19,300
Physics/astronomy	70,700	6,800	10,000	6,600	3,800	14,500	2,100	5,100	5,200	16,700
Other physical sciences	18,800	300	5,300	1,100	2,000	3,100	800	1,000	1,600	3,500
Social/related sciences, total	2,004,400	183,400	339,200	257,600	143,400	370,300	60,200	129,000	107,400	411,300
Economics	332,800	30,200	63,400	46,600	24,800	55,800	9,700	19,800	14,500	67,400
Political/related sciences	407,400	40,800	66,800	50,000	26,300	92,300	11,800	27,300	23,100	68,700
Psychology	619,600	60,000	114,600	83,800	41,000	110,700	16,300	42,300	26,500	123,600
Sociology/anthropology	424,400	37,100	66,500	49,300	32,400	76,900	15,600	23,200	26,600	96,300
Other social sciences	220,300	15,300	27,900	27,900	19,000	34,600	6,800	16,400	16,700	55,400

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: 1993

Level and field of highest degree	Employed S&Es, total ¹	Geographic region of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Bachelor's — continued										
Engineering, total	1,358,300	94,200	187,800	216,800	77,900	227,900	60,000	149,700	80,500	261,900
Aerospace/related engineering	57,600	2,300	5,000	7,900	3,300	10,600	2,500	5,000	5,400	15,500
Chemical engineering	97,700	5,600	11,800	16,500	5,800	16,000	3,800	18,900	4,400	14,900
Civil/architectural engineering	236,700	16,000	35,200	34,500	14,100	41,300	9,600	19,600	15,100	51,200
Electrical/related engineering	395,600	29,100	52,200	60,200	25,100	63,400	18,600	37,700	27,200	81,700
Industrial engineering	82,300	3,700	12,500	14,900	4,800	16,100	5,800	10,800	2,500	10,800
Mechanical engineering	301,000	21,500	42,900	59,500	13,800	51,200	11,000	32,100	14,700	53,900
Other engineering	187,000	16,000	28,200	23,400	11,100	29,300	8,600	25,100	11,200	33,900
Non-S&E degrees, total	554,500	38,900	78,600	82,700	43,800	99,400	24,400	54,600	27,900	104,300
Master's										
All degree fields, total	2,575,600	207,900	466,000	371,600	140,300	444,600	95,800	204,800	155,000	488,300
S&E degree fields, total	1,328,400	93,300	227,700	182,000	75,500	233,800	51,000	116,500	81,200	266,200
Sciences, total	937,700	63,200	162,200	133,400	58,200	169,000	38,300	81,400	56,100	175,100
Computer/math sciences, total	221,400	14,900	46,400	29,500	9,700	43,200	8,900	20,700	11,400	36,500
Computer/information sciences	124,400	10,300	28,100	15,300	2,900	25,400	2,200	9,000	6,600	24,300
Mathematical sciences	97,000	4,500	18,200	14,200	6,800	17,800	6,700	11,700	4,800	12,200
Life/related sciences, total	151,000	8,700	21,100	26,400	11,200	25,200	7,200	15,300	9,200	26,700
Agricultural/food sciences	26,100	900	1,700	4,700	2,900	3,500	1,700	3,700	1,600	5,300
Biological sciences	110,200	6,900	16,500	20,000	7,400	19,500	5,100	10,400	6,600	17,700
Environmental life sciences	14,800	900	2,900	1,700	900	2,200	400	1,200	900	3,600
Physical/related sciences, total	111,300	7,600	17,900	15,300	4,100	18,700	5,400	13,300	11,500	17,500
Chemistry, except biochemistry	34,000	2,600	8,000	6,300	1,200	4,500	1,600	3,000	2,400	4,400
Earth science, geology and oceanography	34,000	2,100	4,300	3,700	1,100	3,200	2,000	7,200	4,100	6,300
Physics/astronomy	32,400	1,900	4,000	3,700	1,200	8,100	1,100	2,200	4,200	6,000
Other physical sciences	6,500	700	1,400	200	400	1,200	200	900	700	800

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: 1993

Level and field of highest degree	Employed S&Es, total ¹	Geographic region of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Master's — continued										
Social/related sciences, total	453,900	32,000	76,800	62,200	33,200	82,000	16,900	32,100	24,100	94,300
Economics	41,800	2,000	7,500	5,400	3,700	9,000	900	4,000	2,500	6,800
Political/related sciences	58,300	2,000	12,400	4,800	2,300	18,400	2,600	2,900	1,700	11,200
Psychology	259,700	22,000	41,500	36,500	20,200	38,700	10,000	18,600	14,900	57,100
Sociology/anthropology	39,900	2,000	6,600	5,900	2,500	4,800	2,000	2,900	2,800	10,400
Other social sciences	54,200	4,000	8,900	9,600	4,400	11,100	1,500	3,800	2,200	8,700
Engineering, total	390,700	30,100	65,500	48,600	17,400	64,700	12,700	35,100	25,100	91,200
Aerospace/related engineering	17,900	1,000	1,400	2,000	600	5,100	700	1,300	1,100	4,700
Chemical engineering	24,800	1,400	6,200	3,700	900	3,300	1,100	4,100	400	3,700
Civil/architectural engineering	65,100	3,200	10,500	6,000	3,800	11,300	2,700	6,200	4,500	16,800
Electrical/related engineering	127,300	11,300	21,100	13,200	5,400	18,400	2,900	9,100	10,200	35,600
Industrial engineering	18,700	1,000	2,400	3,100	1,000	3,800	1,400	3,100	600	2,300
Mechanical engineering	59,900	6,300	9,900	11,000	2,300	8,000	1,800	4,000	2,900	13,600
Other engineering	76,900	5,900	14,000	9,600	3,400	14,900	2,100	7,300	5,300	14,300
Non-S&E degrees, total	1,247,100	114,600	238,300	189,600	64,800	210,800	44,800	88,300	73,800	222,100
Doctorate										
All degree fields, total	634,800	49,200	110,800	92,900	38,000	119,400	27,000	48,700	35,700	112,600
S&E degree fields, total	529,200	42,300	94,100	75,500	29,600	98,400	21,500	40,700	32,100	94,400
Sciences, total	444,500	36,300	79,200	62,800	25,800	84,800	18,000	33,000	26,400	77,800
Computer/math sciences, total	32,800	2,900	6,300	4,200	1,700	5,900	1,500	2,100	1,900	6,200
Computer/information sciences	6,800	600	1,800	600	400	800	100	600	300	1,700
Mathematical sciences	26,000	2,300	4,600	3,600	1,300	5,100	1,400	1,500	1,600	4,500
Life/related sciences, total	148,500	10,700	24,000	21,300	10,200	29,300	6,600	12,100	8,100	26,200
Agricultural/food sciences	16,100	700	2,000	2,300	2,200	3,000	900	1,600	1,100	2,300
Biological sciences	128,500	9,800	21,700	18,600	7,800	25,600	5,500	10,200	6,400	23,000
Environmental life sciences	3,900	200	300	300	300	700	200	300	600	900

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: 1993

Level and field of highest degree	Employed S&Es, total ¹	Geographic region of employment								
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Doctorate — continued										
Physical/related sciences, total	115,900	10,200	21,100	16,200	5,300	20,600	4,100	9,400	8,600	20,200
Chemistry, except biochemistry	60,000	5,200	13,200	10,300	3,400	10,200	1,900	4,900	2,700	8,200
Earth science, geology and oceanography	15,400	1,200	1,500	1,500	500	2,500	600	1,900	2,400	3,300
Physics/astronomy	39,000	3,700	6,200	4,200	1,400	7,600	1,400	2,500	3,400	8,600
Other physical sciences	1,400	100	200	300	S	300	100	100	200	100
Social/related sciences, total	147,300	12,500	27,800	21,100	8,600	29,100	5,800	9,300	7,700	25,200
Economics	20,400	1,600	3,700	2,700	1,100	6,000	1,000	1,100	800	2,400
Political/related sciences	15,600	1,800	2,200	2,300	800	4,100	700	1,000	600	2,200
Psychology	75,900	6,400	15,700	10,500	4,500	12,800	2,900	5,000	3,900	14,200
Sociology/anthropology	21,700	2,000	3,900	3,500	1,600	3,600	700	1,300	1,500	3,400
Other social sciences	13,700	900	2,400	2,100	700	2,600	500	900	900	2,900
Engineering, total	84,700	6,000	14,900	12,700	3,800	13,600	3,500	7,700	5,700	16,700
Aerospace/related engineering	3,400	200	500	400	200	700	100	200	300	800
Chemical engineering	12,500	600	2,800	2,000	500	1,800	600	2,200	700	1,300
Civil/architectural engineering	8,500	600	1,100	1,200	200	1,500	300	700	800	1,900
Electrical/related engineering	21,400	1,700	4,100	2,600	800	3,200	800	1,500	1,300	5,300
Industrial engineering	2,300	100	400	500	100	200	100	300	100	500
Mechanical engineering	10,700	900	1,400	2,200	600	1,900	400	700	800	1,800
Other engineering	26,000	1,800	4,700	3,800	1,400	4,300	1,200	2,100	1,700	5,000
Non-S&E degrees, total	105,600	6,800	16,700	17,400	8,400	21,000	5,500	8,100	3,600	18,100

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

² 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)