

Table E-13. Employed U.S. scientists and engineers, by highest degree attained, occupation, and geographic region of employment: 1995

Highest degree and occupation	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 occupations, total³	10,114,500	780,300	1,603,100	1,440,300	676,100	1,811,600	399,600	869,100	641,100	1,879,600
S&E occupations, total	3,185,600	234,100	454,100	478,600	199,400	559,300	129,600	305,100	220,700	599,600
Scientists, total	1,846,600	145,100	268,300	254,300	119,800	345,800	71,700	164,700	128,100	346,100
Computer/math sci, total	949,500	79,000	133,400	124,500	53,700	184,800	33,000	90,700	66,600	182,500
Computer/information scientists	839,600	72,000	117,800	109,700	47,100	160,700	25,700	81,600	57,100	166,600
Mathematical scientists	37,900	2,600	5,600	3,800	2,400	10,200	2,500	1,900	3,000	5,900
Postsecondary teachers- computer math sci	72,000	4,400	10,000	11,000	4,200	13,900	4,800	7,100	6,500	9,900
Life/related scientists, total	305,300	24,800	42,300	42,000	29,700	55,200	16,100	20,700	16,600	57,500
Agricultural/food scientists	43,400	800	3,500	4,600	7,500	8,700	2,700	3,200	2,600	9,700
Biological scientists	168,600	16,000	26,400	23,000	12,900	32,900	6,600	9,100	8,300	33,000
Environmental life scientists	20,100	800	1,800	1,900	2,700	2,400	1,300	2,200	2,200	4,800
Postsecondary teachers- life/related sciences	73,200	7,200	10,600	12,500	6,700	11,100	5,400	6,200	3,500	10,000
Physical/related scientists, total ...	274,300	17,000	40,400	40,900	15,900	46,800	11,100	33,200	24,600	44,300
Chemistry, except biochemistry	111,400	7,400	22,000	22,200	5,900	18,500	4,500	9,600	5,700	15,600
Earth scientists/ geologists/oceanographers	70,700	2,900	5,100	6,300	3,500	10,300	2,500	17,600	9,400	13,100
Physicists/astronomers	29,000	2,300	3,400	3,800	900	5,500	1,700	1,100	4,200	6,200
Other physical/related scientists	17,000	900	1,700	1,700	1,500	4,800	500	1,300	1,800	2,700
Postsecondary teachers- physical/related sci	46,200	3,500	8,200	6,900	4,000	7,700	1,900	3,600	3,600	6,700

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

Table E-13. Employed U.S. scientists and engineers, by highest degree attained, occupation, and geographic region of employment: 1995

Highest degree and occupation	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										
Social/related scientists, total	317,500	24,400	52,100	47,000	20,500	59,000	11,500	20,200	20,400	61,900
Economists	33,100	2,300	6,100	3,700	700	11,900	500	1,100	1,700	4,800
Political/related scientists	8,900	700	1,200	900	400	3,400	100	400	700	800
Psychologists	167,200	13,400	26,900	24,500	11,000	25,400	6,400	12,600	11,000	35,900
Sociologists/anthropologists	16,000	600	1,900	900	2,000	2,800	500	1,500	2,200	3,700
Other social/related scientists	12,600	700	1,000	1,500	400	4,800	200	300	500	3,300
Postsecondary teachers- social/related sci	79,700	6,700	15,000	15,300	5,900	10,800	3,700	4,300	4,300	13,500
Engineers, total	1,339,000	89,000	185,800	224,400	79,600	213,600	57,900	140,300	92,600	253,500
Aerospace/related engineers	72,800	3,000	4,100	5,200	4,500	11,600	3,400	8,600	6,000	26,400
Chemical engineers	71,100	3,800	11,500	11,100	5,200	9,300	3,200	13,900	4,600	8,400
Civil/architectural engineers	198,900	13,000	27,900	27,600	14,200	35,800	6,800	16,000	13,500	43,800
Electrical/related engineers	357,400	26,200	47,600	47,800	20,300	56,800	17,900	34,400	28,100	77,900
Industrial engineers	69,600	4,400	8,500	15,500	5,500	11,900	4,600	5,500	3,200	10,300
Mechanical engineers	255,100	17,200	37,500	64,400	15,600	37,500	8,400	25,100	13,600	35,400
Other engineers	282,800	19,200	44,400	47,400	12,200	45,400	11,700	33,800	20,700	47,100
Postsecondary teachers-engineers ..	31,300	2,200	4,300	5,400	2,300	5,000	1,900	3,100	3,000	4,100
Non-S&E occupations, total	6,928,900	546,200	1,149,000	961,700	476,600	1,252,300	270,000	564,000	420,500	1,280,000
Managers/administrators	1,963,200	166,100	324,500	271,900	112,800	389,100	81,500	173,400	111,500	329,500
Health/related	758,000	62,500	123,200	106,200	56,500	129,500	35,200	65,600	41,400	137,600
Teachers, except S&E postsecondary	708,000	53,800	121,200	93,500	54,700	109,400	29,700	60,700	42,900	141,800
Sales/marketing	875,800	67,900	142,500	121,900	63,700	156,600	30,100	64,800	51,900	175,000
Other non-S&E occupations	2,623,900	196,000	437,500	368,200	189,000	467,700	93,700	199,500	172,800	496,100

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

Table E-13. Employed U.S. scientists and engineers, by highest degree attained, occupation, and geographic region of employment: 1995

Highest degree and occupation	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										
All occupations, total³	5,926,700	434,700	869,300	861,600	429,000	1,057,500	238,900	534,900	380,900	1,112,200
S&E occupations, total	1,845,800	128,200	238,900	280,000	126,200	325,600	77,700	193,200	126,600	347,100
Scientists, total	937,500	73,200	122,800	122,700	69,300	175,300	35,800	92,500	64,700	180,300
Computer/math sci, total	625,500	52,000	83,600	80,700	40,000	119,600	20,200	63,600	42,900	122,400
Computer/information scientists	595,600	49,800	79,500	78,200	37,600	113,200	18,100	61,200	40,600	117,000
Mathematical scientists	15,900	1,600	1,900	900	1,300	3,500	1,200	1,100	1,100	3,200
Postsecondary teachers- computer math sci	14,000	600	2,200	1,600	1,100	2,800	900	1,400	1,200	2,200
Life/related scientists, total	122,200	8,300	15,100	15,900	16,000	22,000	6,100	7,300	6,300	25,000
Agricultural/food scientists	24,700	200	1,700	1,900	4,500	5,600	1,000	1,600	1,300	6,900
Biological scientists	70,200	5,300	9,400	10,200	7,400	14,000	3,000	3,900	2,900	13,600
Environmental life scientists	13,400	500	1,100	1,000	2,500	1,400	1,200	1,300	1,200	3,100
Postsecondary teachers- life/related sciences	13,900	2,300	2,900	2,800	1,500	900	800	500	800	1,400
Physical/related scientists, total ...	128,300	6,700	16,100	19,500	8,400	22,700	6,300	18,000	10,400	20,200
Chemistry, except biochemistry	65,300	4,200	10,800	12,900	3,600	11,200	3,300	5,900	3,700	9,600
Earth scientists/ geologists/oceanographers	36,200	1,100	2,500	3,400	2,000	5,300	1,500	10,300	4,300	5,900
Physicists/astronomers	7,200	400	500	800	200	1,600	900	400	600	1,900
Other physical/related scientists	9,300	400	1,000	800	1,200	2,800	200	900	500	1,500
Postsecondary teachers- physical/related sci	10,200	600	1,300	1,600	1,400	1,700	500	500	1,300	1,300

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

Table E-13. Employed U.S. scientists and engineers, by highest degree attained, occupation, and geographic region of employment: 1995

Highest degree and occupation	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										
Social/related scientists, total	61,500	6,200	8,000	6,600	4,900	11,100	3,100	3,600	5,100	12,700
Economists	11,100	1,200	1,600	2,000	300	2,200	300	200	700	2,600
Political/related scientists	4,900	500	600	400	300	1,400	100	300	700	500
Psychologists	26,300	2,900	3,400	2,000	2,400	4,100	1,800	1,900	2,400	5,500
Sociologists/anthropologists	7,900	300	1,000	300	1,300	800	200	1,000	1,200	1,700
Other social/related scientists	3,900	300	300	200	200	1,700	100	100	S	1,000
Postsecondary teachers- social/related sci	7,400	1,000	1,100	1,700	400	800	600	100	100	1,500
Engineers, total	908,300	55,100	116,100	157,300	57,000	150,400	42,000	100,700	61,900	166,800
Aerospace/related engineers	42,600	1,100	2,700	1,700	3,000	6,400	2,100	5,700	3,700	16,300
Chemical engineers	45,900	2,300	6,200	6,900	3,600	6,400	1,900	10,000	3,300	5,200
Civil/architectural engineers	143,600	9,400	19,500	21,200	10,200	26,600	4,800	11,500	9,200	31,000
Electrical/related engineers	241,200	16,000	27,600	35,300	14,700	39,800	14,500	23,700	19,800	49,500
Industrial engineers	52,500	3,300	5,500	11,700	4,600	9,700	3,300	4,100	2,300	8,100
Mechanical engineers	191,500	11,200	27,700	47,600	11,900	30,200	7,300	20,400	9,700	25,300
Other engineers	185,800	11,600	26,200	31,800	8,700	30,100	8,100	25,000	13,500	30,600
Postsecondary teachers-engineers ..	5,200	200	700	1,100	400	1,100	200	400	500	700
Non-S&E occupations, total	4,080,900	306,400	630,400	581,600	302,800	731,800	161,200	341,700	254,300	765,100
Managers/administrators	1,095,200	88,100	167,900	167,400	73,800	202,700	48,000	103,000	60,700	182,200
Health/related	257,600	22,300	37,600	36,000	18,000	41,500	13,200	23,300	15,100	50,700
Teachers, except S&E postsecondary	319,300	22,400	45,900	36,800	25,100	52,100	12,100	33,400	18,200	73,100
Sales/marketing	689,200	54,800	106,400	97,900	51,000	122,600	23,900	51,500	45,000	135,000
Other non-S&E occupations	1,719,700	118,900	272,500	243,600	135,000	312,900	64,000	130,600	115,200	324,100

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

Table E-13. Employed U.S. scientists and engineers, by highest degree attained, occupation, and geographic region of employment: 1995

Highest degree and occupation	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										
All occupations, total³	2,656,800	220,500	470,400	366,200	147,700	473,900	97,900	217,700	170,600	487,700
S&E occupations, total	891,600	70,600	139,100	133,700	45,900	153,900	33,000	77,200	64,200	172,200
Scientists, total	532,900	41,700	79,900	78,400	26,800	100,800	20,900	44,100	39,800	99,300
Computer/math sci, total	267,200	23,100	40,000	37,500	10,600	54,300	10,700	22,600	19,200	48,500
Computer/information scientists	219,000	20,100	33,200	29,700	8,200	43,500	7,200	18,700	14,600	43,000
Mathematical scientists	14,400	700	1,900	2,200	800	4,200	1,100	400	1,500	1,600
Postsecondary teachers-computer math sci	33,700	2,200	4,800	5,600	1,600	6,600	2,400	3,500	3,100	3,900
Life/related scientists, total	63,700	5,200	10,000	9,000	5,200	11,100	3,800	4,000	4,400	10,800
Agricultural/food scientists	9,300	200	1,100	1,700	1,500	1,200	1,000	700	700	1,200
Biological scientists	32,600	3,100	6,200	4,100	2,300	5,800	1,200	1,000	2,500	6,300
Environmental life scientists	5,800	300	600	900	100	700	S	900	900	1,500
Postsecondary teachers-life/related sciences	15,900	1,700	2,200	2,400	1,300	3,400	1,500	1,400	300	1,800
Physical/related scientists, total ...	67,200	4,600	10,700	9,500	3,100	10,400	2,000	8,700	7,100	11,000
Chemistry, except biochemistry	20,300	1,600	5,000	4,100	800	3,200	400	1,700	900	2,700
Earth scientists/geologists/oceanographers	24,100	1,100	2,000	2,100	1,300	3,300	800	5,600	3,100	4,800
Physicists/astronomers	7,700	800	900	1,200	200	1,100	300	300	1,800	1,100
Other physical/related scientists	5,000	400	400	800	300	1,500	300	300	600	600
Postsecondary teachers-physical/related sci	10,000	600	2,400	1,400	500	1,300	300	800	700	2,000

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Highest degree and occupation	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 scientists, total	134,900	8,900	19,200	22,300	8,000	25,000	4,300	8,800	9,200	29,100
Economists	14,900	800	3,400	1,200	100	6,000	200	700	900	1,700
Political/related scientists	2,800	S	400	500	S	1,600	S	100	S	200
Psychologists	88,200	6,500	12,500	15,100	5,800	12,300	3,100	6,800	5,700	20,200
Sociologists/anthropologists	5,100	100	200	400	500	1,200	200	300	800	1,300
Other social/related scientists	4,700	200	300	1,000	100	1,500	S	100	100	1,300
Postsecondary teachers- social/related sci	19,100	1,200	2,300	4,100	1,500	2,400	800	800	1,700	4,400
Engineers, total	358,700	28,800	59,300	55,300	19,000	53,100	12,100	33,000	24,400	72,900
Aerospace/related engineers	25,900	1,700	1,200	3,000	1,400	4,400	1,000	2,800	1,900	8,500
Chemical engineers	19,300	1,200	4,000	3,200	1,100	2,000	1,100	3,000	1,000	2,700
Civil/architectural engineers	50,800	3,400	8,100	6,100	3,400	8,300	1,700	4,100	3,900	11,900
Electrical/related engineers	102,000	9,200	17,200	11,200	5,200	15,300	2,800	9,500	7,300	24,100
Industrial engineers	16,300	1,200	2,800	3,600	900	2,100	1,300	1,400	800	2,100
Mechanical engineers	55,200	5,200	8,900	14,100	3,500	6,300	800	4,400	3,400	8,600
Other engineers	80,500	6,500	15,700	13,100	2,800	13,000	3,000	6,900	5,300	13,800
Postsecondary teachers-engineers ..	8,700	500	1,200	800	800	1,600	500	1,100	800	1,300
Non-S&E occupations, total	1,765,200	149,900	331,300	232,600	101,900	320,000	64,900	140,500	106,400	315,500
Managers/administrators	697,100	63,800	127,400	82,600	30,400	149,600	25,200	57,000	42,100	117,700
Health/related	84,000	7,100	20,400	11,000	3,300	12,800	3,500	7,900	4,700	13,500
Teachers, except S&E postsecondary	306,900	25,900	60,000	46,900	22,800	44,400	13,000	20,800	18,800	54,100
Sales/marketing	168,500	12,000	31,400	22,600	12,200	29,100	5,300	12,100	6,200	37,200
Other non-S&E occupations	508,600	41,000	92,100	69,500	33,100	84,100	17,900	42,700	34,500	93,000

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		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Doctorate										
All occupations, total³	689,900	53,400	115,100	96,200	43,800	132,400	28,900	52,800	43,000	123,000
S&E occupations, total	417,100	32,900	69,900	60,600	25,700	74,800	17,400	33,100	28,300	73,400
Scientists, total	347,500	27,900	59,600	48,900	22,500	65,000	14,000	26,700	22,300	59,800
Computer/math sci, total	53,700	3,800	8,800	6,200	2,600	10,600	2,100	4,500	4,200	10,800
Computer/information scientists	22,100	2,000	4,000	1,800	800	3,700	300	1,800	1,700	5,900
Mathematical scientists	7,500	300	1,800	700	200	2,500	200	400	400	1,100
Postsecondary teachers-computer math sci	24,100	1,400	3,000	3,800	1,600	4,400	1,500	2,300	2,200	3,800
Life/related scientists, total	102,300	9,200	15,000	14,300	7,800	19,100	5,200	8,500	5,200	17,800
Agricultural/food scientists	9,300	400	800	1,100	1,300	2,000	700	900	500	1,600
Biological scientists	57,800	5,800	9,800	8,100	2,900	11,400	2,200	3,900	2,500	11,100
Environmental life scientists	900	100	100	100	S	300	S	100	100	200
Postsecondary teachers-life/related sciences	34,400	2,900	4,300	5,100	3,500	5,400	2,200	3,600	2,200	4,900
Physical/related scientists, total ...	78,700	5,700	13,500	11,800	4,500	13,700	2,700	6,500	7,100	13,000
Chemistry, except biochemistry	25,800	1,600	6,200	5,200	1,500	4,100	800	2,000	1,100	3,300
Earth scientists/geologists/oceanographers	10,400	700	500	800	200	1,800	200	1,700	2,000	2,400
Physicists/astronomers	14,100	1,000	2,000	1,800	500	2,700	500	400	1,800	3,300
Other physical/related scientists	2,600	100	400	100	S	400	100	100	700	600
Postsecondary teachers-physical/related sci	25,900	2,300	4,500	3,800	2,100	4,700	1,100	2,300	1,500	3,500

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		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Doctorate — continued										
Social/related scientists, total	112,800	9,200	22,400	16,600	7,600	21,500	4,100	7,300	5,800	18,200
Economists	7,000	300	1,000	500	400	3,700	100	300	100	500
Political/related scientists	1,200	200	200	100	100	500	S	S	S	100
Psychologists	47,800	4,000	9,500	6,700	2,900	8,000	1,500	3,300	2,600	9,400
Sociologists/anthropologists	3,000	100	700	200	100	700	100	200	200	600
Other social/related scientists	3,100	200	400	300	100	1,100	100	100	400	600
Postsecondary teachers- social/related sci	50,700	4,500	10,600	8,800	4,100	7,500	2,300	3,400	2,500	6,900
Engineers, total	69,600	5,000	10,300	11,700	3,200	9,800	3,400	6,400	6,000	13,600
Aerospace/related engineers	4,200	200	200	400	100	800	400	100	400	1,700
Chemical engineers	5,800	300	1,300	1,000	400	800	200	1,000	300	500
Civil/architectural engineers	3,800	100	300	200	100	900	300	400	500	900
Electrical/related engineers	13,100	1,100	2,700	1,200	300	1,500	300	1,000	900	4,100
Industrial engineers	800	S	200	200	100	200	S	100	S	100
Mechanical engineers	8,000	800	800	2,700	200	1,000	300	300	500	1,500
Other engineers	16,400	1,100	2,600	2,500	800	2,300	700	1,900	1,700	2,800
Postsecondary teachers-engineers ..	17,400	1,500	2,400	3,400	1,100	2,300	1,300	1,600	1,800	2,000
Non-S&E occupations, total	272,800	20,500	45,200	35,600	18,100	57,600	11,500	19,700	14,700	49,600
Managers/administrators	119,400	10,100	18,800	15,300	6,900	26,500	4,500	9,000	6,500	21,600
Health/related	22,500	1,700	4,100	3,200	1,300	5,300	900	1,500	1,200	3,300
Teachers, except S&E postsecondary	67,400	4,500	12,800	9,100	5,100	11,500	4,000	5,100	3,400	11,900
Sales/marketing	8,200	600	2,600	800	300	1,800	100	300	500	1,300
Other non-S&E occupations	55,200	3,700	6,900	7,200	4,500	12,600	2,000	3,700	3,100	11,500

1 Includes individuals employed in the U.S. who reported employer address outside the U.S., not shown separately
2 Includes professional degrees
3 Total excludes 49,100 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 were employed in a S&E occupation during either the 1993 or 1995 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, 1995 SESTAT (Scientists and Engineers Statistical Data System)