

**Table E-2. Employed U.S. scientists and engineers, by highest degree attained, occupation, and employment sector: 1995**

Highest degree and occupation	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> .....	10,114,500	6,893,100	5,565,100	762,800	565,200	1,837,300	876,700	960,600	1,384,100	584,400	799,700
<b>S&amp;E occupations, total</b> .....	3,185,600	2,175,100	1,970,300	113,800	91,000	566,300	453,900	112,500	444,100	252,400	191,700
<b>Scientists, total</b> .....	1,846,600	1,112,900	955,000	80,000	77,900	492,100	387,500	104,600	241,600	135,800	105,800
<b>Computer/math sci, total</b> .....	949,500	734,400	683,200	23,600	27,600	123,900	88,200	35,700	91,100	53,300	37,900
Computer/information scientists .....	839,600	714,600	666,300	22,800	25,600	48,500	37,300	11,300	76,500	44,500	31,900
Mathematical scientists .....	37,900	18,800	15,900	800	2,000	4,900	4,600	200	14,200	8,700	5,500
Postsecondary teachers-computer math sci .....	72,000	1,000	1,000	S	S	70,500	46,300	24,200	400	S	400
<b>Life/related scientists, total</b> ..	305,300	94,000	75,600	7,400	11,000	149,000	133,200	15,800	62,300	37,700	24,600
Agricultural/food scientists ....	43,400	26,800	23,100	3,100	600	8,000	7,900	200	8,600	5,100	3,600
Biological scientists .....	168,600	62,300	50,200	2,300	9,800	68,000	65,300	2,700	38,400	22,400	16,000
Environmental life scientists ..	20,100	4,700	2,300	1,800	600	600	600	S	14,800	10,200	4,500
Postsecondary teachers-life/related sciences .....	73,200	200	S	100	S	72,400	59,500	12,900	600	S	600
<b>Physical/related scientists, total</b> .....	274,300	150,700	138,600	6,500	5,600	79,600	70,300	9,300	44,000	27,600	16,400
Chemistry, except biochemistry .....	111,400	86,900	83,100	1,300	2,400	10,700	10,500	200	13,800	5,900	8,000
Earth scientists/geologists/oceanographers .....	70,700	44,300	39,000	4,000	1,200	9,300	8,900	500	17,100	11,700	5,400
Physicists/astronomers .....	29,000	11,100	9,000	600	1,500	12,300	12,200	100	5,600	5,000	500
Other physical/related scientists .....	17,000	8,200	7,200	400	500	1,700	1,700	S	7,200	5,000	2,200
Postsecondary teachers-physical/related sci .....	46,200	300	200	S	S	45,600	37,100	8,500	300	100	200

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

**Table E-2. Employed U.S. scientists and engineers, by highest degree attained, occupation, and employment sector: 1995**

Highest degree and occupation	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>Social/related scientists, total</b> .....	317,500	133,900	57,600	42,600	33,700	139,500	95,800	43,700	44,200	17,100	27,000
Economists .....	33,100	18,900	15,000	2,700	1,100	2,800	2,700	S	11,400	7,400	4,000
Political/related scientists .....	8,900	4,600	1,800	300	2,600	1,700	1,600	100	2,600	1,400	1,200
Psychologists .....	167,200	97,900	34,600	37,400	25,800	46,600	16,200	30,400	22,800	4,600	18,200
Sociologists/anthropologists ..	16,000	5,400	3,500	1,000	900	6,300	5,200	1,000	4,300	1,900	2,500
Other social/related scientists	12,600	6,300	2,200	1,200	3,000	3,600	3,000	600	2,700	1,700	1,000
Postsecondary teachers-social/related sci .....	79,700	700	500	S	200	78,600	67,000	11,600	400	200	200
<b>Engineers, total</b> .....	1,339,000	1,062,200	1,015,300	33,800	13,200	74,300	66,400	7,900	202,500	116,600	85,900
Aerospace/related engineers ..	72,800	54,900	53,100	700	1,100	3,000	2,900	100	14,900	14,300	500
Chemical engineers .....	71,100	66,100	64,500	1,300	400	2,300	2,200	100	2,700	2,100	600
Civil/architectural engineers ....	198,900	122,200	111,500	9,200	1,600	4,900	4,000	800	71,800	17,700	54,100
Electrical/related engineers .....	357,400	295,900	283,200	7,800	4,800	14,600	13,100	1,500	46,900	39,800	7,100
Industrial engineers .....	69,600	63,700	60,700	1,700	1,300	900	900	S	5,000	4,400	700
Mechanical engineers .....	255,100	229,600	223,100	5,400	1,100	6,800	6,700	100	18,600	15,000	3,600
Other engineers .....	282,800	229,500	218,900	7,700	2,900	10,800	10,500	300	42,500	23,400	19,200
Postsecondary teachers-engineers .....	31,300	300	200	S	100	31,000	25,900	5,100	S	S	S
<b>Non-S&amp;E occupations, total</b> .....	6,928,900	4,717,900	3,594,800	649,000	474,200	1,271,000	422,900	848,100	940,000	332,000	608,000
Managers/administrators .....	1,963,200	1,449,300	1,244,200	80,200	125,000	189,100	88,100	101,100	324,700	139,900	184,800
Health/related .....	758,000	549,500	333,200	111,600	104,800	140,000	123,400	16,500	68,500	23,200	45,300
Teachers, except S&E postsecondary .....	708,000	25,900	10,000	7,600	8,300	672,200	87,800	584,400	9,900	1,800	8,100
Sales/marketing .....	875,800	864,000	730,800	115,400	17,900	4,900	2,700	2,200	6,800	1,800	5,100
Other non-S&E occupations .....	2,623,900	1,829,200	1,276,600	334,200	218,300	264,800	120,900	143,900	530,000	165,300	364,700

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

**Table E-2. Employed U.S. scientists and engineers, by highest degree attained, occupation, and employment sector: 1995**

Highest degree and occupation	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</b>											
<b>All occupations, total<sup>2</sup></b> .....	5,926,700	4,368,700	3,713,600	366,800	288,400	709,700	288,700	421,100	848,300	347,600	500,600
<b>S&amp;E occupations, total</b> .....	1,845,800	1,413,700	1,323,700	48,800	41,100	152,700	123,100	29,600	279,400	150,100	129,300
<b>Scientists, total</b> .....	937,500	676,300	616,100	25,400	34,800	128,200	101,700	26,500	133,000	70,200	62,700
<b>Computer/math sci, total</b> .....	625,500	518,300	482,800	16,000	19,600	45,800	31,900	13,900	61,400	35,000	26,400
Computer/information scientists .....	595,600	509,900	474,900	15,800	19,200	31,600	23,200	8,400	54,100	30,600	23,500
Mathematical scientists .....	15,900	7,800	7,300	200	300	900	800	200	7,300	4,400	2,900
Postsecondary teachers-computer math sci .....	14,000	700	700	S	S	13,300	7,900	5,300	S	S	S
<b>Life/related scientists, total</b> ..	122,200	46,900	39,000	3,600	4,300	41,300	35,900	5,400	33,900	17,100	16,800
Agricultural/food scientists ....	24,700	17,300	15,600	1,500	100	2,100	2,100	S	5,300	2,800	2,500
Biological scientists .....	70,200	26,800	22,200	800	3,700	25,800	24,100	1,700	17,700	7,000	10,700
Environmental life scientists ..	13,400	2,700	1,100	1,200	400	200	200	S	10,400	7,300	3,100
Postsecondary teachers-life/related sciences .....	13,900	100	S	100	S	13,300	9,500	3,800	500	S	500
<b>Physical/related scientists, total</b> .....	128,300	84,000	78,700	3,100	2,200	20,600	18,400	2,200	23,700	12,500	11,200
Chemistry, except biochemistry .....	65,300	52,000	49,700	600	1,700	4,500	4,500	S	8,800	2,900	5,900
Earth scientists/geologists/oceanographers .....	36,200	24,400	22,000	2,100	300	2,700	2,500	300	9,100	5,800	3,300
Physicists/astronomers .....	7,200	2,500	2,400	100	S	2,900	2,900	S	1,800	1,400	400
Other physical/related scientists .....	9,300	4,900	4,400	300	200	600	600	S	3,800	2,400	1,400
Postsecondary teachers-physical/related sci .....	10,200	200	200	S	S	9,800	7,900	2,000	200	100	100

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

**Table E-2. Employed U.S. scientists and engineers, by highest degree attained, occupation, and employment sector: 1995**

Highest degree and occupation	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> .....	61,500	27,100	15,600	2,800	8,700	20,500	15,500	5,000	13,900	5,700	8,300
Economists .....	11,100	5,000	4,100	900	S	300	300	S	5,800	2,700	3,000
Political/related scientists .....	4,900	2,500	800	S	1,700	900	900	S	1,500	600	900
Psychologists .....	26,300	15,300	7,500	1,400	6,400	7,800	4,600	3,200	3,100	400	2,700
Sociologists/anthropologists ..	7,900	2,500	2,000	300	200	3,200	2,600	600	2,200	800	1,400
Other social/related scientists	3,900	1,500	1,200	100	300	1,200	900	300	1,200	1,000	200
Postsecondary teachers-social/related sci .....	7,400	200	S	S	200	7,000	6,200	800	200	200	S
<b>Engineers, total</b> .....	908,300	737,400	707,600	23,400	6,300	24,600	21,400	3,100	146,400	79,900	66,500
Aerospace/related engineers ..	42,600	33,300	32,500	300	400	1,400	1,400	S	7,900	7,700	200
Chemical engineers .....	45,900	43,000	41,800	900	200	1,000	1,000	S	2,000	1,400	600
Civil/architectural engineers ....	143,600	84,000	76,600	6,400	1,000	2,700	1,900	800	57,000	12,900	44,100
Electrical/related engineers .....	241,200	203,300	195,400	5,500	2,500	6,000	5,400	600	31,900	26,700	5,200
Industrial engineers .....	52,500	47,900	46,700	1,000	300	400	400	S	4,200	3,600	600
Mechanical engineers .....	191,500	173,500	168,400	4,500	500	3,600	3,600	S	14,400	11,400	3,000
Other engineers .....	185,800	152,200	146,000	4,800	1,400	4,500	4,200	300	29,100	16,300	12,800
Postsecondary teachers-engineers .....	5,200	200	200	S	S	4,900	3,500	1,400	S	S	S
<b>Non-S&amp;E occupations, total</b> .....	4,080,900	2,955,000	2,389,800	317,900	247,300	557,000	165,600	391,400	568,900	197,500	371,300
Managers/administrators .....	1,095,200	872,100	776,200	45,200	50,700	55,100	29,400	25,800	168,000	72,700	95,400
Health/related .....	257,600	178,100	113,100	8,700	56,300	47,300	40,100	7,200	32,100	8,300	23,900
Teachers, except S&E postsecondary .....	319,300	17,400	7,400	5,400	4,700	297,700	11,900	285,900	4,100	700	3,500
Sales/marketing .....	689,200	680,900	576,400	90,400	14,100	2,700	1,100	1,600	5,600	1,500	4,100
Other non-S&E occupations .....	1,719,700	1,206,600	916,800	168,300	121,500	154,100	83,200	70,900	359,000	114,400	244,600

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		Total	Profit	Self-employed	Non-profit	Total	4 yr. College/university	Other	Total	Federal	State/local
<b>Master's</b>											
<b>All occupations, total<sup>2</sup></b> .....	2,656,800	1,610,700	1,264,400	152,700	193,700	668,600	204,600	464,000	377,500	158,800	218,700
<b>S&amp;E occupations, total</b> .....	891,600	595,900	524,700	39,500	31,700	172,500	106,200	66,300	123,200	71,200	52,000
<b>Scientists, total</b> .....	532,900	312,500	254,600	31,400	26,500	147,700	85,500	62,200	72,700	39,200	33,500
<b>Computer/math sci, total</b> .....	267,200	191,500	178,900	6,200	6,400	49,500	30,100	19,400	26,100	15,600	10,600
Computer/information scientists .....	219,000	184,200	173,000	5,700	5,400	14,300	11,900	2,300	20,600	12,500	8,100
Mathematical scientists .....	14,400	7,200	5,800	400	1,000	2,100	2,100	S	5,100	3,100	2,000
Postsecondary teachers-computer math sci .....	33,700	100	100	S	S	33,200	16,100	17,100	400	S	400
<b>Life/related scientists, total</b> ..	63,700	21,100	16,800	2,100	2,200	26,100	18,900	7,200	16,500	10,600	5,900
Agricultural/food scientists ....	9,300	5,400	3,900	1,200	300	2,300	2,100	200	1,600	700	900
Biological scientists .....	32,600	14,000	11,900	300	1,800	7,700	7,400	400	10,900	7,200	3,700
Environmental life scientists ..	5,800	1,700	1,000	600	100	200	200	S	3,900	2,600	1,300
Postsecondary teachers-life/related sciences .....	15,900	S	S	S	S	15,900	9,200	6,700	S	S	S
<b>Physical/related scientists, total</b> .....	67,200	35,700	32,700	2,100	1,000	19,600	14,500	5,100	11,800	7,400	4,400
Chemistry, except biochemistry .....	20,300	14,700	14,200	200	200	2,700	2,600	200	2,900	1,100	1,800
Earth scientists/geologists/oceanographers .....	24,100	16,100	14,300	1,600	200	2,900	2,700	200	5,200	3,300	1,900
Physicists/astronomers .....	7,700	2,900	2,500	200	300	3,600	3,500	100	1,200	1,200	S
Other physical/related scientists .....	5,000	1,900	1,600	S	200	600	600	S	2,500	1,800	700
Postsecondary teachers-physical/related sci .....	10,000	100	S	S	S	9,800	5,100	4,700	100	S	100

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

**Table E-2. Employed U.S. scientists and engineers, by highest degree attained, occupation, and employment sector: 1995**

Highest degree and occupation	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>Social/related scientists, total</b> .....	134,900	64,200	26,100	21,000	17,000	52,400	22,000	30,400	18,300	5,600	12,600
Economists .....	14,900	9,600	7,500	1,300	800	1,500	1,500	S	3,800	2,900	800
Political/related scientists .....	2,800	1,800	800	200	700	200	100	100	800	500	300
Psychologists .....	88,200	48,100	16,400	18,500	13,200	28,600	5,400	23,100	11,500	1,200	10,300
Sociologists/anthropologists ..	5,100	1,800	1,000	500	300	1,900	1,800	200	1,400	600	800
Other social/related scientists	4,700	2,900	400	500	2,000	1,100	900	200	800	300	500
Postsecondary teachers-social/related sci .....	19,100	S	S	S	S	19,100	12,300	6,800	S	S	S
<b>Engineers, total</b> .....	358,700	283,400	270,100	8,100	5,200	24,800	20,700	4,200	50,500	32,000	18,500
Aerospace/related engineers ..	25,900	18,500	17,800	200	400	1,300	1,200	100	6,200	5,900	300
Chemical engineers .....	19,300	18,200	18,000	200	S	600	500	100	500	500	S
Civil/architectural engineers ....	50,800	35,300	32,500	2,500	300	1,600	1,600	S	13,900	4,400	9,600
Electrical/related engineers .....	102,000	81,300	77,700	1,600	2,000	7,100	6,300	800	13,700	11,800	1,900
Industrial engineers .....	16,300	15,100	13,400	700	1,000	300	300	S	900	800	100
Mechanical engineers .....	55,200	49,500	48,600	500	400	2,200	2,200	S	3,500	2,900	600
Other engineers .....	80,500	65,500	62,100	2,400	1,100	3,100	3,000	S	11,900	5,800	6,000
Postsecondary teachers-engineers .....	8,700	S	S	S	S	8,700	5,600	3,100	S	S	S
<b>Non-S&amp;E occupations, total</b> .....	1,765,200	1,014,900	739,700	113,200	162,000	496,100	98,400	397,600	254,300	87,600	166,700
Managers/administrators .....	697,100	479,900	393,100	28,000	58,800	87,900	28,200	59,700	129,300	52,700	76,600
Health/related .....	84,000	55,000	30,800	5,800	18,400	15,000	11,100	3,900	14,100	2,900	11,200
Teachers, except S&E postsecondary .....	306,900	6,100	1,700	1,300	3,100	295,700	27,600	268,100	5,100	1,000	4,100
Sales/marketing .....	168,500	165,100	141,900	20,500	2,700	2,200	1,600	600	1,200	200	1,000
Other non-S&E occupations .....	508,600	308,700	172,100	57,600	79,000	95,300	30,000	65,300	104,600	30,800	73,800

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		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> .....	689,900	278,600	199,700	43,900	35,000	348,700	294,700	54,100	62,600	41,700	20,900
<b>S&amp;E occupations, total</b> .....	417,100	153,800	114,400	23,100	16,200	225,800	211,700	14,100	37,600	28,300	9,300
<b>Scientists, total</b> .....	347,500	114,100	78,500	21,000	14,500	200,900	187,500	13,500	32,500	24,000	8,500
<b>Computer/math sci, total</b> .....	53,700	21,800	18,700	1,500	1,600	28,500	26,100	2,400	3,300	2,500	900
Computer/information scientists .....	22,100	17,900	15,700	1,300	1,000	2,700	2,100	600	1,500	1,100	300
Mathematical scientists .....	7,500	3,800	2,900	200	700	1,900	1,800	100	1,900	1,300	500
Postsecondary teachers-computer math sci .....	24,100	100	100	S	S	24,000	22,100	1,800	S	S	S
<b>Life/related scientists, total</b> ..	102,300	22,900	17,800	1,300	3,900	69,500	67,100	2,400	9,900	8,300	1,600
Agricultural/food scientists ....	9,300	4,100	3,500	400	200	3,700	3,700	S	1,500	1,400	100
Biological scientists .....	57,800	18,500	14,000	800	3,600	31,400	30,700	700	7,900	6,600	1,300
Environmental life scientists ..	900	300	200	100	100	200	200	S	400	300	100
Postsecondary teachers-life/related sciences .....	34,400	100	S	S	S	34,200	32,500	1,700	100	S	100
<b>Physical/related scientists, total</b> .....	78,700	30,900	27,200	1,300	2,500	39,400	37,400	1,900	8,400	7,700	700
Chemistry, except biochemistry .....	25,800	20,100	19,100	500	500	3,500	3,500	S	2,200	1,900	300
Earth scientists/geologists/oceanographers .....	10,400	3,800	2,700	300	700	3,700	3,700	100	2,800	2,600	300
Physicists/astronomers .....	14,100	5,600	4,100	400	1,200	5,800	5,800	S	2,600	2,500	100
Other physical/related scientists .....	2,600	1,400	1,200	100	100	400	400	S	800	700	100
Postsecondary teachers-physical/related sci .....	25,900	S	S	S	S	25,900	24,100	1,800	S	S	S

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**Table E-2. Employed U.S. scientists and engineers, by highest degree attained, occupation, and employment sector: 1995**

Highest degree and occupation	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>Social/related scientists, total</b> .....	112,800	38,400	14,900	16,900	6,600	63,500	56,900	6,700	10,900	5,600	5,400
Economists .....	7,000	4,100	3,400	400	300	1,000	1,000	S	1,900	1,700	200
Political/related scientists .....	1,200	300	100	S	200	500	500	S	300	300	S
Psychologists .....	47,800	31,600	10,600	15,600	5,300	9,100	5,900	3,200	7,100	2,700	4,400
Sociologists/anthropologists ..	3,000	1,200	400	300	500	1,100	900	200	700	500	300
Other social/related scientists	3,100	1,100	200	600	300	1,300	1,200	100	700	400	300
Postsecondary teachers-social/related sci .....	50,700	100	100	S	S	50,400	47,400	3,000	200	100	200
<b>Engineers, total</b> .....	69,600	39,700	35,900	2,100	1,700	24,900	24,300	600	5,000	4,300	700
Aerospace/related engineers ..	4,200	3,100	2,800	100	200	300	300	S	700	700	S
Chemical engineers .....	5,800	5,000	4,700	200	200	600	600	S	200	200	S
Civil/architectural engineers ....	3,800	2,500	2,000	300	300	500	500	S	800	400	400
Electrical/related engineers .....	13,100	10,500	9,400	700	300	1,500	1,500	100	1,100	1,000	S
Industrial engineers .....	800	600	600	S	S	200	200	S	S	S	S
Mechanical engineers .....	8,000	6,400	5,900	300	200	1,000	900	100	600	600	S
Other engineers .....	16,400	11,500	10,700	500	400	3,300	3,300	S	1,600	1,300	300
Postsecondary teachers-engineers .....	17,400	100	S	S	100	17,400	16,900	500	S	S	S

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



**Table E-2. Employed U.S. scientists and engineers, by highest degree attained, occupation, and employment sector: 1995**

Highest degree and occupation	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>Non-S&amp;E occupations, total</b> .....	272,800	124,800	85,300	20,700	18,800	122,900	82,900	40,000	25,000	13,400	11,600
Managers/administrators .....	119,400	63,800	50,800	4,000	9,000	39,000	26,800	12,200	16,600	9,200	7,400
Health/related .....	22,500	13,100	8,400	2,900	1,800	7,100	6,300	800	2,200	1,200	1,000
Teachers, except S&E postsecondary .....	67,400	1,600	500	700	400	65,700	44,500	21,200	200	100	100
Sales/marketing .....	8,200	8,200	6,200	1,600	400	S	S	S	S	S	S
Other non-S&E occupations .....	55,200	38,100	19,300	11,500	7,200	11,100	5,300	5,800	6,000	2,800	3,200

- 1 Includes professional degrees
- 2 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)