

**Table D-2. U.S. scientists and engineers, by highest degree attained, occupation, and employment status: 1997**

Highest degree and occupation	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
<b>All degree levels<sup>1</sup></b>								
<b>All occupations, total<sup>2</sup></b> .....	12,512,000	10,585,600	9,476,700	1,109,000	191,900	1,734,600	1,005,100	729,500
<b>S&amp;E occupations, total</b> .....	3,899,000	3,369,400	3,105,000	264,400	52,900	476,600	334,300	142,300
<b>Scientists, total</b> .....	2,261,500	1,995,100	1,791,000	204,000	30,000	236,400	126,000	110,500
<b>Computer/math sci, total</b> .....	1,129,700	1,039,500	974,400	65,100	14,600	75,700	40,000	35,700
Computer/information scientists .....	1,003,400	933,200	895,000	38,200	13,200	56,900	28,800	28,200
Mathematical scientists .....	42,400	34,700	31,900	2,900	600	7,000	4,300	2,700
Postsecondary teachers- computer math sci .....	84,000	71,500	47,500	24,000	800	11,700	6,900	4,800
<b>Life/related scientists, total</b> .....	387,300	321,800	292,700	29,000	7,400	58,100	26,700	31,400
Agricultural/food scientists .....	50,500	43,000	40,300	2,700	700	6,700	5,000	1,700
Biological scientists .....	221,000	181,900	172,000	9,900	5,100	33,900	11,500	22,400
Environmental life scientists .....	23,400	20,200	18,500	1,700	S	3,200	3,200	S
Postsecondary teachers- life/related sciences .....	92,400	76,600	61,800	14,800	1,500	14,300	7,000	7,300
<b>Physical/related scientists, total</b> ...	343,500	284,900	259,500	25,300	4,600	54,100	37,000	17,200
Chemistry, except biochemistry .....	147,100	119,800	114,400	5,400	2,000	25,300	17,400	7,900
Earth scientists/ geologists/oceanographers .....	82,100	68,600	63,600	5,000	1,200	12,300	8,900	3,400
Physicists/astronomers .....	38,400	31,500	28,500	3,000	300	6,600	5,600	900
Other physical/related scientists .....	18,700	16,700	16,200	600	600	1,300	600	800
Postsecondary teachers- physical/related sci .....	57,200	48,200	36,800	11,300	400	8,700	4,500	4,200
<b>Social/related scientists, total</b> .....	401,000	349,000	264,400	84,500	3,500	48,500	22,300	26,200
Economists .....	50,800	45,100	37,100	8,000	600	5,100	3,000	2,100
Political/related scientists .....	11,000	9,100	6,900	2,300	200	1,700	400	1,300
Psychologists .....	205,800	181,700	134,600	47,100	1,500	22,600	8,000	14,600
Sociologists/anthropologists .....	19,500	15,800	13,100	2,700	200	3,500	1,000	2,500
Other social/related scientists .....	13,500	11,900	9,200	2,700	300	1,300	300	1,000
Postsecondary teachers- social/related sci .....	100,300	85,300	63,600	21,700	600	14,300	9,600	4,700
<b>Engineers, total</b> .....	1,637,500	1,374,400	1,314,000	60,400	22,900	240,200	208,400	31,800
Aerospace/related engineers .....	99,400	72,500	70,200	2,400	1,100	25,700	23,600	2,100
Chemical engineers .....	93,900	76,300	72,300	3,900	1,100	16,400	13,700	2,800
Civil/architectural engineers .....	245,600	206,800	196,300	10,500	3,200	35,700	30,900	4,800
Electrical/related engineers .....	430,500	364,800	352,300	12,500	6,300	59,500	52,800	6,700
Industrial engineers .....	93,800	79,700	78,400	1,300	1,700	12,400	9,300	3,100
Mechanical engineers .....	319,500	271,100	263,400	7,800	3,400	45,000	40,800	4,200
Other engineers .....	313,600	269,200	253,900	15,300	5,700	38,700	32,400	6,300
Postsecondary teachers-engineers ..	41,300	33,900	27,200	6,700	500	6,800	4,900	1,900
<b>Non-S&amp;E occupations, total</b> .....	8,613,100	7,216,200	6,371,600	844,600	138,900	1,257,900	670,700	587,200
Managers/administrators .....	2,321,300	2,019,900	1,941,100	78,800	29,100	272,300	212,000	60,300
Health/related .....	920,300	802,400	676,700	125,700	10,900	107,000	44,500	62,500
Teachers, except S&E postsecondary	985,500	779,100	626,600	152,500	9,000	197,400	123,000	74,400
Sales/marketing .....	1,085,700	920,300	800,900	119,400	19,900	145,600	69,800	75,800
Other non-S&E occupations .....	3,300,300	2,694,500	2,326,300	368,100	70,100	535,800	221,500	314,300

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

**Table D-2. U.S. scientists and engineers, by highest degree attained, occupation, and employment status: 1997**

Highest degree and occupation	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
<b>Bachelor's</b>								
<b>All occupations, total<sup>2</sup></b> .....	7,456,800	6,193,700	5,545,400	648,300	123,600	1,139,500	604,800	534,700
<b>S&amp;E occupations, total</b> .....	2,252,100	1,916,800	1,794,800	122,000	31,800	303,500	214,100	89,400
<b>Scientists, total</b> .....	1,135,500	1,000,200	915,400	84,800	16,700	118,600	52,300	66,300
<b>Computer/math sci, total</b> .....	731,900	675,300	639,100	36,200	10,500	46,000	21,000	25,000
Computer/information scientists .....	698,700	649,900	622,900	27,000	10,300	38,500	17,500	21,000
Mathematical scientists .....	16,400	11,900	11,400	500	200	4,200	2,700	1,600
Postsecondary teachers- computer math sci .....	16,800	13,500	4,800	8,700	S	3,300	900	2,400
<b>Life/related scientists, total</b> .....	158,100	125,200	111,400	13,800	3,100	29,900	8,700	21,200
Agricultural/food scientists .....	25,800	22,200	21,000	1,200	500	3,100	2,100	1,000
Biological scientists .....	94,300	73,300	69,600	3,600	2,000	19,000	3,600	15,400
Environmental life scientists .....	16,900	14,600	13,100	1,600	S	2,300	2,300	S
Postsecondary teachers- life/related sciences .....	21,100	15,000	7,700	7,400	600	5,500	700	4,800
<b>Physical/related scientists, total</b> ...	163,300	131,700	118,200	13,500	2,400	29,200	18,800	10,400
Chemistry, except biochemistry .....	88,100	70,600	67,900	2,700	1,000	16,500	10,100	6,300
Earth scientists/ geologists/oceanographers .....	42,100	34,900	31,900	2,900	700	6,500	5,400	1,100
Physicists/astronomers .....	10,200	7,400	6,400	1,100	S	2,800	2,500	200
Other physical/related scientists .....	9,000	8,100	7,900	100	600	300	S	300
Postsecondary teachers- physical/related sci .....	13,900	10,700	4,000	6,700	S	3,200	700	2,500
<b>Social/related scientists, total</b> .....	82,200	68,000	46,700	21,300	800	13,500	3,700	9,700
Economists .....	18,500	15,900	11,900	4,100	500	2,100	1,600	500
Political/related scientists .....	6,100	5,100	3,600	1,500	S	1,000	S	1,000
Psychologists .....	32,500	26,200	20,100	6,100	S	6,300	1,000	5,300
Sociologists/anthropologists .....	9,600	7,000	6,000	1,000	S	2,600	500	2,100
Other social/related scientists .....	5,500	4,500	3,000	1,600	200	700	100	600
Postsecondary teachers- social/related sci .....	10,100	9,300	2,200	7,100	S	800	500	300
<b>Engineers, total</b> .....	1,116,600	916,600	879,400	37,200	15,100	184,900	161,800	23,000
Aerospace/related engineers .....	61,200	40,900	39,900	1,000	600	19,700	18,100	1,500
Chemical engineers .....	61,000	49,300	46,700	2,600	300	11,300	9,400	1,900
Civil/architectural engineers .....	181,400	150,500	143,100	7,400	2,600	28,400	24,500	3,800
Electrical/related engineers .....	290,500	239,600	231,700	8,000	4,400	46,500	41,800	4,700
Industrial engineers .....	70,100	58,700	58,200	600	1,400	10,000	8,000	2,100
Mechanical engineers .....	238,500	200,300	194,600	5,700	2,000	36,300	32,900	3,400
Other engineers .....	206,300	171,800	162,500	9,200	3,700	30,800	26,400	4,400
Postsecondary teachers-engineers ..	7,400	5,400	2,700	2,700	100	1,900	800	1,200
<b>Non-S&amp;E occupations, total</b> .....	5,204,700	4,276,900	3,750,600	526,300	91,800	836,000	390,700	445,300
Managers/administrators .....	1,319,600	1,141,100	1,095,300	45,800	14,200	164,300	129,800	34,500
Health/related .....	350,900	280,400	221,900	58,500	6,800	63,700	16,900	46,800
Teachers, except S&E postsecondary	482,800	380,700	294,200	86,400	4,500	97,500	45,000	52,500
Sales/marketing .....	848,600	718,800	630,200	88,600	14,400	115,400	55,500	60,000
Other non-S&E occupations .....	2,202,800	1,755,900	1,508,900	247,000	51,800	395,000	143,600	251,500

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

**Table D-2. U.S. scientists and engineers, by highest degree attained, occupation, and employment status: 1997**

Highest degree and occupation	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
<b>Master's</b>								
<b>All occupations, total<sup>2</sup></b> .....	3,311,300	2,819,800	2,503,300	316,500	52,200	439,300	289,600	149,700
<b>S&amp;E occupations, total</b> .....	1,100,000	967,900	863,800	104,100	14,000	118,200	76,300	41,900
<b>Scientists, total</b> .....	671,100	592,000	507,400	84,600	7,200	71,900	37,700	34,200
<b>Computer/math sci, total</b> .....	328,500	301,600	277,400	24,200	3,100	23,800	14,600	9,200
Computer/information scientists .....	272,500	254,200	244,600	9,500	2,400	15,900	9,700	6,200
Mathematical scientists .....	18,100	15,900	14,200	1,700	200	2,000	1,200	800
Postsecondary teachers- computer math sci .....	37,800	31,500	18,600	12,900	500	5,900	3,700	2,200
<b>Life/related scientists, total</b> .....	83,800	70,300	61,700	8,500	1,200	12,400	5,700	6,600
Agricultural/food scientists .....	12,300	10,900	10,300	600	100	1,400	900	400
Biological scientists .....	45,400	37,600	34,800	2,800	800	7,000	2,500	4,500
Environmental life scientists .....	4,900	4,200	4,100	100	S	700	700	S
Postsecondary teachers- life/related sciences .....	21,200	17,600	12,600	5,000	300	3,300	1,500	1,800
<b>Physical/related scientists, total</b> ...	83,300	69,100	61,800	7,300	1,000	13,100	8,200	4,900
Chemistry, except biochemistry .....	24,600	20,200	18,900	1,300	500	3,900	3,200	600
Earth scientists/ geologists/oceanographers .....	28,000	23,100	21,500	1,600	300	4,600	2,500	2,100
Physicists/astronomers .....	11,300	9,000	7,800	1,200	100	2,200	1,700	400
Other physical/related scientists .....	7,800	7,100	6,700	400	S	700	300	400
Postsecondary teachers- physical/related sci .....	11,600	9,700	6,900	2,800	100	1,800	500	1,300
<b>Social/related scientists, total</b> .....	175,600	151,100	106,500	44,600	2,000	22,600	9,200	13,400
Economists .....	23,200	21,100	17,700	3,400	S	2,100	600	1,500
Political/related scientists .....	3,700	3,200	2,500	700	100	400	100	300
Psychologists .....	108,600	95,000	67,100	27,900	1,300	12,300	4,800	7,600
Sociologists/anthropologists .....	5,600	5,200	4,100	1,100	200	200	S	200
Other social/related scientists .....	4,100	3,700	2,700	1,000	S	400	S	400
Postsecondary teachers- social/related sci .....	30,400	22,900	12,400	10,500	300	7,200	3,700	3,400
<b>Engineers, total</b> .....	428,900	375,900	356,300	19,500	6,800	46,300	38,500	7,700
Aerospace/related engineers .....	32,900	27,300	26,000	1,200	400	5,300	4,800	500
Chemical engineers .....	24,600	19,900	18,900	1,000	600	4,100	3,400	800
Civil/architectural engineers .....	59,100	51,700	48,800	2,800	600	6,900	6,000	900
Electrical/related engineers .....	120,200	107,400	103,500	3,900	1,700	11,100	9,400	1,700
Industrial engineers .....	21,800	19,300	18,700	600	300	2,200	1,300	900
Mechanical engineers .....	70,800	61,600	59,900	1,700	1,300	7,900	7,100	800
Other engineers .....	87,100	79,500	74,500	4,900	1,700	5,900	4,300	1,600
Postsecondary teachers-engineers ..	12,400	9,300	6,000	3,300	400	2,800	2,300	500
<b>Non-S&amp;E occupations, total</b> .....	2,211,300	1,851,900	1,639,600	212,400	38,100	321,200	213,400	107,800
Managers/administrators .....	826,600	724,800	698,500	26,300	13,300	88,400	65,700	22,800
Health/related .....	109,900	92,500	73,400	19,100	1,800	15,600	8,100	7,500
Teachers, except S&E postsecondary	412,700	323,300	268,700	54,600	2,500	86,900	68,200	18,700
Sales/marketing .....	215,700	183,100	157,800	25,300	5,400	27,200	13,500	13,600
Other non-S&E occupations .....	646,300	528,200	441,200	87,000	15,100	103,100	57,900	45,100

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

**Table D-2. U.S. scientists and engineers, by highest degree attained, occupation, and employment status: 1997**

Highest degree and occupation	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
<b>Doctorate</b>								
<b>All occupations, total<sup>2</sup></b> .....	789,700	696,000	637,400	58,700	9,700	83,900	67,700	16,200
<b>S&amp;E occupations, total</b> .....	511,900	454,700	418,900	35,800	6,300	50,900	41,300	9,600
<b>Scientists, total</b> .....	422,700	375,300	342,800	32,400	5,300	42,100	33,500	8,600
<b>Computer/math sci, total</b> .....	64,800	59,000	54,500	4,500	1,000	4,900	3,900	1,000
Computer/information scientists .....	27,900	25,700	24,300	1,400	600	1,700	1,100	600
Mathematical scientists .....	7,800	6,900	6,300	700	100	700	500	200
Postsecondary teachers- computer math sci .....	29,100	26,300	23,900	2,400	300	2,500	2,300	200
<b>Life/related scientists, total</b> .....	128,400	111,800	105,500	6,300	2,400	14,200	10,900	3,200
Agricultural/food scientists .....	12,200	9,800	8,900	900	200	2,200	1,900	300
Biological scientists .....	73,400	64,100	60,900	3,200	2,000	7,300	4,900	2,400
Environmental life scientists .....	1,500	1,200	1,200	S	S	300	300	S
Postsecondary teachers- life/related sciences .....	41,300	36,700	34,600	2,100	200	4,400	3,900	500
<b>Physical/related scientists, total</b> ...	96,100	83,700	79,200	4,500	1,200	11,200	9,500	1,700
Chemistry, except biochemistry .....	34,400	28,900	27,500	1,400	600	5,000	4,000	900
Earth scientists/ geologists/oceanographers .....	11,900	10,500	10,000	500	200	1,200	1,000	200
Physicists/astronomers .....	16,900	15,100	14,300	800	100	1,600	1,300	300
Other physical/related scientists .....	1,700	1,400	1,400	S	S	300	300	S
Postsecondary teachers- physical/related sci .....	31,200	27,800	25,900	1,800	300	3,100	2,800	300
<b>Social/related scientists, total</b> .....	133,300	120,800	103,600	17,200	800	11,800	9,200	2,600
Economists .....	8,700	7,800	7,300	600	100	800	700	100
Political/related scientists .....	1,200	900	800	100	100	300	300	S
Psychologists .....	58,000	54,300	42,400	11,800	200	3,500	2,100	1,400
Sociologists/anthropologists .....	4,300	3,600	3,000	600	S	700	500	200
Other social/related scientists .....	3,000	2,700	2,600	100	S	300	200	100
Postsecondary teachers- social/related sci .....	58,100	51,600	47,600	4,000	300	6,200	5,400	800
<b>Engineers, total</b> .....	89,200	79,400	76,100	3,300	1,000	8,800	7,800	900
Aerospace/related engineers .....	5,100	4,300	4,200	100	100	700	600	100
Chemical engineers .....	8,300	7,100	6,700	300	300	1,000	900	100
Civil/architectural engineers .....	4,500	4,000	3,700	300	S	400	400	100
Electrical/related engineers .....	18,800	16,800	16,400	400	200	1,800	1,600	200
Industrial engineers .....	1,400	1,400	1,300	100	S	S	S	S
Mechanical engineers .....	9,900	9,000	8,700	300	100	800	800	S
Other engineers .....	19,900	17,700	16,600	1,100	300	2,000	1,800	200
Postsecondary teachers-engineers ..	21,300	19,200	18,500	700	100	2,000	1,900	200

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**Table D-2. U.S. scientists and engineers, by highest degree attained, occupation, and employment status: 1997**

Highest degree and occupation	S&Es, total	Employed			Unemploy- ed/seeking job	Not in labor force		
		Total	Full-time	Part-time		Total	Retired	Not seeking job
<b>Doctorate — continued</b>								
<b>Non-S&amp;E occupations, total</b> .....	277,800	241,300	218,400	22,900	3,400	33,100	26,400	6,700
Managers/administrators .....	115,300	102,400	98,300	4,100	1,200	11,700	10,600	1,100
Health/related .....	26,400	21,800	18,900	2,900	400	4,100	3,100	1,000
Teachers, except S&E postsecondary .....	68,100	57,900	51,800	6,100	700	9,500	8,000	1,400
Sales/marketing .....	9,600	8,300	6,500	1,800	100	1,200	700	500
Other non-S&E occupations .....	58,500	51,000	43,000	8,000	1,000	6,500	3,900	2,600

<sup>1</sup> Includes professional degrees

<sup>2</sup> Total excludes 18,700 individuals who reported never having worked. For unemployed individuals, occupation is for their previous reported job.

**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)