

TABLE 9-6

## Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2017

(Number)

Highest degree and occupation	All ethnicities and races	Hispanic or Latino <sup>a</sup>	Not Hispanic or Latino					
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race
All degrees <sup>b</sup>	27,273,000	2,328,000	79,000	3,546,000	2,008,000	67,000	18,750,000	495,000
S&E occupations	6,769,000	505,000	14,000	1,338,000	382,000	23,000	4,397,000	109,000
Science occupations	5,041,000	362,000	9,000	1,056,000	320,000	16,000	3,201,000	78,000
Biological/life scientist	610,000	38,000	S	126,000	20,000	1,000	415,000	9,000
Agricultural/food science	41,000	4,000	D	7,000	1,000	D	28,000	D
Biological/scientist	455,000	28,000	D	109,000	16,000	1,000	293,000	8,000
Forestry and conservation scientist	27,000	S	D	*	*	D	25,000	D
Postsecondary teacher	87,000	5,000	D	9,000	2,000	D	69,000	S
Computer and information scientist	3,128,000	185,000	4,000	788,000	225,000	11,000	1,866,000	49,000
Computer/information scientist	3,096,000	181,000	4,000	778,000	223,000	11,000	1,851,000	48,000
Postsecondary teacher	32,000	4,000	D	10,000	2,000	D	15,000	D
Mathematical scientist	292,000	15,000	D	53,000	17,000	D	203,000	3,000
Mathematical scientist	209,000	12,000	D	37,000	14,000	D	143,000	2,000
Postsecondary teacher	82,000	2,000	D	16,000	3,000	D	60,000	1,000
Physical scientist	366,000	29,000	S	51,000	11,000	S	265,000	7,000
Chemist, except biochemist	109,000	8,000	D	18,000	6,000	D	75,000	S
Earth scientist/geologist/oceanographer	69,000	3,000	D	5,000	1,000	D	60,000	1,000
Physicist/astronomer	42,000	2,000	D	13,000	D	D	25,000	1,000
Other physical scientist	65,000	13,000	D	5,000	3,000	D	41,000	2,000
Postsecondary teachers	81,000	3,000	D	11,000	1,000	D	65,000	D
Psychologist	250,000	33,000	*	14,000	11,000	D	187,000	4,000
Psychologist	199,000	30,000	D	10,000	9,000	D	148,000	2,000
Postsecondary teacher	51,000	3,000	D	4,000	2,000	D	39,000	S
Social scientist	396,000	63,000	S	24,000	37,000	S	264,000	5,000
Economist	47,000	4,000	D	3,000	1,000	D	37,000	S
Political scientist	33,000	11,000	D	S	S	D	18,000	D
Sociologist/anthropologist	24,000	S	D	1,000	S	D	20,000	*
Other social scientist	159,000	S	D	9,000	12,000	D	95,000	3,000
Postsecondary teacher	133,000	6,000	D	9,000	21,000	D	94,000	1,000
Engineering occupations	1,728,000	143,000	5,000	283,000	62,000	8,000	1,196,000	31,000
Aerospace engineer	132,000	13,000	D	13,000	3,000	D	98,000	2,000
Chemical engineer	93,000	5,000	D	16,000	1,000	D	71,000	*
Civil engineer	264,000	27,000	D	31,000	10,000	D	191,000	4,000

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(Number)

Highest degree and occupation	All ethnicities and races	Hispanic or Latino <sup>a</sup>	Not Hispanic or Latino					
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race
Electrical engineer	374,000	28,000	D	98,000	16,000	S	222,000	8,000
Industrial engineer	88,000	15,000	D	10,000	3,000	D	59,000	*
Mechanical engineer	313,000	21,000	S	45,000	7,000	D	233,000	5,000
Other engineer	406,000	33,000	D	51,000	19,000	4,000	288,000	10,000
Postsecondary teacher	59,000	3,000	D	18,000	S	D	35,000	S
S&E-related occupations	8,271,000	702,000	28,000	1,042,000	610,000	16,000	5,726,000	147,000
Health occupations	5,181,000	433,000	23,000	649,000	416,000	10,000	3,551,000	99,000
S&E managers, including health	1,048,000	72,000	4,000	136,000	52,000	3,000	768,000	13,000
S&E pre-college teacher	961,000	76,000	1,000	35,000	83,000	*	744,000	21,000
S&E technician/technologist	837,000	94,000	D	185,000	54,000	1,000	493,000	10,000
Other S&E-related occupation	244,000	27,000	D	36,000	5,000	D	170,000	4,000
Non-S&E occupations	12,233,000	1,121,000	37,000	1,166,000	1,016,000	27,000	8,628,000	239,000
Arts, humanities, and related occupation	385,000	29,000	D	22,000	33,000	D	289,000	12,000
Management-related occupation	2,256,000	217,000	12,000	317,000	203,000	6,000	1,460,000	40,000
Non-S&E manager	2,018,000	150,000	6,000	192,000	97,000	7,000	1,540,000	27,000
Non-S&E postsecondary teacher	226,000	14,000	D	21,000	16,000	D	170,000	3,000
Non-S&E precollege teacher	902,000	99,000	1,000	68,000	114,000	S	609,000	9,000
Sales and marketing occupation	1,425,000	102,000	S	138,000	78,000	1,000	1,059,000	43,000
Social service and related occupation	967,000	115,000	4,000	38,000	148,000	1,000	647,000	14,000
Other non-S&E occupation	4,054,000	395,000	9,000	369,000	326,000	11,000	2,854,000	90,000
Bachelor's	15,198,000	1,438,000	52,000	1,655,000	1,146,000	47,000	10,550,000	310,000
S&E occupations	3,846,000	331,000	9,000	522,000	252,000	19,000	2,641,000	72,000
Science occupations	2,786,000	238,000	5,000	414,000	214,000	12,000	1,852,000	51,000
Biological/life scientist	230,000	17,000	D	24,000	8,000	1,000	175,000	5,000
Agricultural/food science	18,000	2,000	D	3,000	D	D	12,000	D
Biological/scientist	183,000	14,000	D	20,000	7,000	1,000	136,000	4,000
Forestry and conservation scientist	15,000	D	D	D	D	D	14,000	D
Postsecondary teacher	S	D	D	S	D	D	S	D
Computer and information scientist	2,100,000	145,000	S	359,000	190,000	10,000	1,354,000	39,000
Computer/information scientist	2,096,000	145,000	S	357,000	189,000	10,000	1,353,000	39,000
Postsecondary teacher	4,000	D	D	S	D	D	S	D
Mathematical scientist	119,000	8,000	D	10,000	3,000	D	96,000	1,000

TABLE 9-6

## Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2017

(Number)

Highest degree and occupation	All ethnicities and races	Hispanic or Latino <sup>a</sup>	Not Hispanic or Latino					
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race
Mathematical scientist	108,000	8,000	D	8,000	3,000	D	88,000	1,000
Postsecondary teacher	11,000	D	D	2,000	D	D	8,000	D
Physical scientist	164,000	17,000	S	17,000	6,000	S	119,000	3,000
Chemist, except biochemist	63,000	6,000	D	5,000	4,000	D	47,000	S
Earth scientist/geologist/oceanographer	28,000	1,000	D	S	D	D	24,000	1,000
Physicist/astronomer	9,000	D	D	5,000	D	D	4,000	D
Other physical scientist	35,000	9,000	D	3,000	2,000	D	19,000	D
Postsecondary teachers	29,000	S	D	S	D	D	25,000	D
Psychologist	33,000	3,000	D	1,000	2,000	D	26,000	D
Psychologist	18,000	3,000	D	D	2,000	D	12,000	D
Postsecondary teacher	S	D	D	D	D	D	S	D
Social scientist	139,000	S	D	3,000	5,000	D	82,000	S
Economist	S	S	D	*	*	D	S	D
Political scientist	12,000	D	D	D	D	D	S	D
Sociologist/anthropologist	6,000	S	D	D	D	D	4,000	D
Other social scientist	89,000	S	D	2,000	1,000	D	49,000	S
Postsecondary teacher	9,000	D	D	D	D	D	4,000	D
Engineering occupations	1,061,000	93,000	4,000	109,000	37,000	7,000	789,000	21,000
Aerospace engineer	69,000	6,000	D	8,000	S	D	50,000	S
Chemical engineer	59,000	3,000	D	5,000	*	D	51,000	D
Civil engineer	169,000	19,000	D	16,000	6,000	D	127,000	2,000
Electrical engineer	215,000	18,000	D	31,000	9,000	S	149,000	5,000
Industrial engineer	57,000	9,000	D	3,000	3,000	D	42,000	*
Mechanical engineer	219,000	16,000	D	21,000	4,000	D	175,000	2,000
Other engineer	259,000	22,000	D	22,000	13,000	4,000	188,000	9,000
Postsecondary teacher	12,000	D	D	S	D	D	7,000	D
S&E-related occupations	4,338,000	415,000	17,000	479,000	351,000	9,000	2,983,000	84,000
Health occupations	2,671,000	236,000	14,000	303,000	251,000	6,000	1,804,000	57,000
S&E managers, including health	515,000	47,000	D	46,000	23,000	1,000	389,000	8,000
S&E pre-college teacher	400,000	38,000	1,000	17,000	29,000	D	304,000	11,000
S&E technician/technologist	586,000	76,000	D	88,000	45,000	1,000	370,000	6,000
Other S&E-related occupation	166,000	19,000	D	25,000	S	D	116,000	D
Non-S&E occupations	7,014,000	692,000	25,000	654,000	543,000	19,000	4,926,000	153,000

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## Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2017

(Number)

Highest degree and occupation	All ethnicities and races	Hispanic or Latino <sup>a</sup>	Not Hispanic or Latino					
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race
Arts, humanities, and related occupation	217,000	11,000	D	12,000	16,000	D	173,000	S
Management-related occupation	1,346,000	121,000	S	176,000	107,000	5,000	896,000	30,000
Non-S&E manager	1,022,000	84,000	4,000	74,000	32,000	S	815,000	9,000
Non-S&E postsecondary teacher	40,000	2,000	D	S	S	D	28,000	D
Non-S&E precollege teacher	421,000	50,000	S	50,000	55,000	D	260,000	5,000
Sales and marketing occupation	1,065,000	78,000	S	90,000	55,000	S	803,000	36,000
Social service and related occupation	373,000	60,000	D	10,000	57,000	D	235,000	8,000
Other non-S&E occupation	2,530,000	285,000	6,000	237,000	218,000	7,000	1,716,000	60,000
Master's	8,236,000	610,000	13,000	1,273,000	663,000	13,000	5,534,000	128,000
S&E occupations	2,069,000	119,000	3,000	607,000	98,000	4,000	1,211,000	27,000
Science occupations	1,521,000	77,000	2,000	476,000	75,000	3,000	869,000	19,000
Biological/life scientist	149,000	8,000	D	34,000	6,000	D	98,000	2,000
Agricultural/food science	13,000	S	D	2,000	D	D	9,000	D
Biological/scientist	108,000	4,000	D	30,000	5,000	D	66,000	2,000
Forestry and conservation scientist	11,000	D	D	D	D	D	10,000	D
Postsecondary teacher	17,000	2,000	D	S	S	D	13,000	D
Computer and information scientist	921,000	33,000	D	385,000	32,000	S	459,000	10,000
Computer/information scientist	911,000	31,000	D	382,000	32,000	S	454,000	9,000
Postsecondary teacher	10,000	D	D	S	D	D	5,000	D
Mathematical scientist	117,000	4,000	D	26,000	11,000	D	74,000	2,000
Mathematical scientist	75,000	3,000	D	19,000	S	D	42,000	2,000
Postsecondary teacher	42,000	1,000	D	8,000	1,000	D	32,000	D
Physical scientist	98,000	7,000	D	13,000	3,000	D	73,000	2,000
Chemist, except biochemist	26,000	1,000	D	6,000	2,000	D	17,000	D
Earth scientist/geologist/oceanographer	29,000	2,000	D	1,000	D	D	25,000	1,000
Physicist/astronomer	12,000	D	D	3,000	D	D	7,000	D
Other physical scientist	21,000	S	D	S	S	D	16,000	D
Postsecondary teachers	10,000	D	D	2,000	D	D	8,000	D

TABLE 9-6

## Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2017

(Number)

Highest degree and occupation	All ethnicities and races	Hispanic or Latino <sup>a</sup>	Not Hispanic or Latino					
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race
Psychologist	102,000	18,000	D	7,000	4,000	D	72,000	1,000
Psychologist	86,000	17,000	D	3,000	3,000	D	62,000	S
Postsecondary teacher	16,000	D	D	D	S	D	10,000	D
Social scientist	133,000	6,000	S	12,000	18,000	S	92,000	2,000
Economist	14,000	2,000	D	2,000	D	D	9,000	*
Political scientist	12,000	*	D	S	S	D	10,000	D
Sociologist/anthropologist	13,000	D	D	S	D	D	11,000	*
Other social scientist	55,000	3,000	D	6,000	10,000	D	35,000	1,000
Postsecondary teacher	40,000	1,000	D	2,000	7,000	D	28,000	*
Engineering occupations	548,000	42,000	1,000	132,000	23,000	1,000	342,000	9,000
Aerospace engineer	54,000	7,000	D	5,000	D	D	40,000	*
Chemical engineer	22,000	1,000	D	S	D	D	14,000	D
Civil engineer	91,000	7,000	D	15,000	5,000	D	62,000	2,000
Electrical engineer	138,000	9,000	D	57,000	6,000	D	64,000	2,000
Industrial engineer	28,000	5,000	D	7,000	*	D	17,000	D
Mechanical engineer	80,000	4,000	D	18,000	3,000	D	53,000	3,000
Other engineer	122,000	8,000	D	22,000	5,000	D	85,000	1,000
Postsecondary teacher	12,000	S	D	3,000	D	D	8,000	D
S&E-related occupations	2,262,000	153,000	3,000	271,000	168,000	5,000	1,623,000	40,000
Health occupations	1,066,000	78,000	S	91,000	85,000	S	788,000	20,000
S&E managers, including health	383,000	18,000	S	72,000	22,000	D	264,000	4,000
S&E pre-college teacher	527,000	36,000	D	17,000	50,000	*	414,000	10,000
S&E technician/technologist	209,000	12,000	D	80,000	9,000	D	103,000	4,000
Other S&E-related occupation	77,000	9,000	D	11,000	2,000	D	54,000	S
Non-S&E occupations	3,904,000	338,000	7,000	395,000	398,000	4,000	2,701,000	61,000
Arts, humanities, and related occupation	137,000	15,000	D	9,000	S	D	89,000	8,000
Management-related occupation	795,000	90,000	S	119,000	87,000	1,000	487,000	9,000
Non-S&E manager	795,000	51,000	2,000	98,000	54,000	3,000	576,000	12,000
Non-S&E postsecondary teacher	81,000	S	D	4,000	5,000	D	64,000	1,000
Non-S&E precollege teacher	454,000	47,000	D	18,000	57,000	D	327,000	4,000
Sales and marketing occupation	322,000	19,000	D	44,000	22,000	D	231,000	6,000
Social service and related occupation	552,000	52,000	S	23,000	79,000	D	390,000	6,000
Other non-S&E occupation	769,000	56,000	S	81,000	77,000	*	537,000	15,000
Doctorate	1,503,000	88,000	5,000	323,000	69,000	1,000	998,000	19,000

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			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race
S&E occupations	786,000	43,000	S	198,000	31,000	D	503,000	9,000
Science occupations	670,000	36,000	S	156,000	29,000	D	440,000	7,000
Biological/life scientist	217,000	11,000	D	62,000	5,000	D	135,000	2,000
Agricultural/food science	10,000	*	D	2,000	D	D	6,000	D
Biological/scientist	153,000	9,000	D	53,000	3,000	D	87,000	2,000
Forestry and conservation scientist	1,000	D	D	D	D	D	S	D
Postsecondary teacher	53,000	2,000	D	7,000	1,000	D	41,000	D
Computer and information scientist	95,000	S	D	42,000	3,000	D	45,000	D
Computer/information scientist	78,000	S	D	36,000	1,000	D	36,000	D
Postsecondary teacher	17,000	S	D	5,000	D	D	9,000	D
Mathematical scientist	55,000	2,000	D	16,000	2,000	D	34,000	D
Mathematical scientist	25,000	1,000	D	10,000	1,000	D	13,000	D
Postsecondary teacher	30,000	1,000	D	6,000	1,000	D	21,000	D
Physical scientist	101,000	4,000	D	21,000	2,000	D	72,000	1,000
Chemist, except biochemist	20,000	1,000	D	7,000	1,000	D	12,000	D
Earth scientist/geologist/oceanographer	11,000	D	D	2,000	D	D	9,000	D
Physicist/astronomer	21,000	S	D	5,000	D	D	14,000	D
Other physical scientist	8,000	D	D	2,000	D	D	5,000	D
Postsecondary teachers	41,000	2,000	D	6,000	1,000	D	32,000	D
Psychologist	92,000	8,000	D	5,000	5,000	D	72,000	2,000
Psychologist	75,000	7,000	D	5,000	3,000	D	59,000	1,000
Postsecondary teacher	16,000	1,000	D	*	1,000	D	13,000	D
Social scientist	110,000	4,000	D	10,000	12,000	D	82,000	1,000
Economist	10,000	1,000	D	1,000	S	D	8,000	D
Political scientist	2,000	D	D	D	D	D	2,000	D
Sociologist/anthropologist	5,000	D	D	D	D	D	5,000	D
Other social scientist	14,000	D	D	S	D	D	11,000	D
Postsecondary teacher	79,000	3,000	D	6,000	11,000	D	57,000	D
Engineering occupations	116,000	8,000	D	42,000	2,000	D	63,000	2,000

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(Number)

Highest degree and occupation	All ethnicities and races	Hispanic or Latino <sup>a</sup>	Not Hispanic or Latino					
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race
Aerospace engineer	8,000	D	D	D	D	D	7,000	D
Chemical engineer	11,000	D	D	5,000	D	D	6,000	D
Civil engineer	4,000	D	D	1,000	D	D	2,000	D
Electrical engineer	20,000	*	D	11,000	D	D	9,000	D
Industrial engineer	2,000	D	D	D	D	D	D	D
Mechanical engineer	12,000	D	D	7,000	D	D	4,000	D
Other engineer	24,000	2,000	D	7,000	D	D	14,000	D
Postsecondary teacher	35,000	1,000	D	12,000	1,000	D	20,000	S
S&E-related occupations	267,000	22,000	D	62,000	6,000	D	173,000	3,000
Health occupations	166,000	14,000	D	35,000	4,000	D	110,000	2,000
S&E managers, including health	46,000	4,000	D	9,000	S	D	31,000	1,000
S&E pre-college teacher	22,000	2,000	D	S	1,000	D	18,000	D
S&E technician/technologist	32,000	2,000	D	16,000	D	D	14,000	D
Other S&E-related occupation	S	D	D	D	D	D	D	D
Non-S&E occupations	450,000	22,000	3,000	62,000	33,000	D	322,000	8,000
Arts, humanities, and related occupation	22,000	D	D	S	D	D	19,000	D
Management-related occupation	65,000	3,000	D	13,000	5,000	D	42,000	S
Non-S&E manager	131,000	3,000	D	17,000	9,000	D	101,000	1,000
Non-S&E postsecondary teacher	88,000	4,000	D	12,000	6,000	D	62,000	D
Non-S&E precollege teacher	11,000	D	D	D	D	D	9,000	D
Sales and marketing occupation	13,000	D	D	D	D	D	8,000	D
Social service and related occupation	30,000	3,000	D	3,000	8,000	D	17,000	D
Other non-S&E occupation	90,000	3,000	D	16,000	S	D	64,000	S

\* = estimate < 500. D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

<sup>a</sup> Hispanic or Latino may be any race.

<sup>b</sup> All degrees includes professional degrees, which are not shown separately.

**Note(s)**

Numbers are rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and engineers are individuals under the age of 76 who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

**Source(s)**

National Science Foundation, National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.