

TABLE 9-19

Employed scientists and engineers, by sector of employment, broad occupation, sex, ethnicity, race, and disability status: 2017

(Number)

Sector and occupation	Total	Sex		Hispanic or Latino ^a	Not Hispanic or Latino						Disability status	
		Female	Male		American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Without disability	With disability
All sectors	27,273,000	13,002,000	14,271,000	2,328,000	79,000	3,546,000	2,008,000	67,000	18,750,000	495,000	24,454,000	2,820,000
S&E occupations ^b	6,769,000	1,966,000	4,803,000	505,000	14,000	1,338,000	382,000	23,000	4,397,000	109,000	6,120,000	649,000
Science occupations	5,041,000	1,697,000	3,344,000	362,000	9,000	1,056,000	320,000	16,000	3,201,000	78,000	4,572,000	469,000
Biological/life scientist	610,000	292,000	319,000	38,000	S	126,000	20,000	1,000	415,000	9,000	570,000	41,000
Computer and information scientist	3,128,000	796,000	2,332,000	185,000	4,000	788,000	225,000	11,000	1,866,000	49,000	2,842,000	286,000
Mathematical scientist	292,000	123,000	168,000	15,000	D	53,000	17,000	D	203,000	3,000	270,000	21,000
Physical scientist	366,000	107,000	259,000	29,000	S	51,000	11,000	S	265,000	7,000	332,000	34,000
Psychologist	250,000	173,000	77,000	33,000	*	14,000	11,000	D	187,000	4,000	226,000	24,000
Social scientist	396,000	206,000	190,000	63,000	S	24,000	37,000	S	264,000	5,000	333,000	63,000
Engineering occupations	1,728,000	269,000	1,459,000	143,000	5,000	283,000	62,000	8,000	1,196,000	31,000	1,548,000	180,000
S&E-related occupations ^c	8,271,000	4,764,000	3,507,000	702,000	28,000	1,042,000	610,000	16,000	5,726,000	147,000	7,532,000	739,000
Non-S&E occupations	12,233,000	6,271,000	5,962,000	1,121,000	37,000	1,166,000	1,016,000	27,000	8,628,000	239,000	10,802,000	1,431,000
Business or industry	14,541,000	5,611,000	8,930,000	1,189,000	33,000	2,270,000	873,000	33,000	9,903,000	241,000	13,065,000	1,475,000
S&E occupations ^b	4,317,000	983,000	3,334,000	307,000	7,000	954,000	221,000	16,000	2,745,000	65,000	3,917,000	400,000
Science occupations	3,003,000	793,000	2,210,000	199,000	3,000	743,000	176,000	11,000	1,829,000	42,000	2,733,000	270,000
Biological/life scientist	196,000	90,000	106,000	12,000	D	34,000	8,000	*	137,000	4,000	184,000	12,000
Computer and information scientist	2,390,000	537,000	1,853,000	125,000	1,000	660,000	158,000	10,000	1,403,000	34,000	2,186,000	203,000
Mathematical scientist	126,000	52,000	74,000	9,000	D	27,000	3,000	D	85,000	1,000	122,000	4,000
Physical scientist	141,000	45,000	95,000	9,000	D	14,000	4,000	*	110,000	2,000	128,000	13,000
Psychologist	44,000	26,000	18,000	7,000	D	S	1,000	D	33,000	D	40,000	4,000
Social scientist	107,000	43,000	65,000	S	D	7,000	1,000	D	61,000	*	73,000	S
Engineering occupations	1,314,000	190,000	1,124,000	108,000	4,000	211,000	45,000	6,000	917,000	23,000	1,184,000	130,000
S&E-related occupations ^c	3,842,000	1,904,000	1,938,000	339,000	7,000	587,000	253,000	4,000	2,599,000	53,000	3,489,000	353,000
Non-S&E occupations	6,382,000	2,724,000	3,658,000	542,000	19,000	728,000	398,000	13,000	4,558,000	123,000	5,660,000	722,000
Federal government	1,287,000	542,000	746,000	120,000	S	135,000	170,000	3,000	816,000	34,000	1,129,000	158,000
S&E occupations ^b	415,000	140,000	275,000	33,000	S	45,000	45,000	2,000	281,000	8,000	361,000	54,000
Science occupations	300,000	118,000	182,000	24,000	S	36,000	39,000	S	195,000	5,000	257,000	44,000
Biological/life scientist	60,000	27,000	34,000	3,000	D	11,000	2,000	D	43,000	1,000	56,000	4,000
Computer and information scientist	128,000	47,000	81,000	10,000	D	18,000	25,000	D	72,000	2,000	100,000	28,000
Mathematical scientist	19,000	9,000	10,000	2,000	D	1,000	S	D	13,000	S	13,000	S
Physical scientist	42,000	11,000	30,000	8,000	D	4,000	2,000	D	26,000	S	39,000	3,000
Psychologist	10,000	7,000	3,000	D	D	D	1,000	D	8,000	D	9,000	D

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(Number)

Sector and occupation	Total	Sex		Hispanic or Latino ^a	Not Hispanic or Latino					Disability status		
		Female	Male		American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Without disability	With disability
Social scientist	42,000	18,000	S	1,000	D	1,000	S	D	32,000	*	40,000	1,000
Engineering occupations	115,000	22,000	93,000	9,000	D	10,000	5,000	D	86,000	4,000	105,000	10,000
S&E-related occupations ^c	314,000	141,000	173,000	31,000	S	43,000	46,000	D	180,000	6,000	275,000	39,000
Non-S&E occupations	558,000	260,000	298,000	56,000	S	47,000	79,000	S	355,000	19,000	493,000	65,000
Nonprofit	3,226,000	2,201,000	1,026,000	251,000	8,000	326,000	297,000	7,000	2,270,000	67,000	2,969,000	257,000
S&E occupations ^b	360,000	154,000	206,000	29,000	D	49,000	15,000	D	262,000	4,000	337,000	23,000
Science occupations	328,000	148,000	180,000	24,000	D	46,000	14,000	D	240,000	4,000	308,000	20,000
Biological/life scientist	62,000	30,000	32,000	4,000	D	14,000	S	D	43,000	D	60,000	3,000
Computer and information scientist	197,000	74,000	123,000	13,000	D	26,000	10,000	D	145,000	3,000	183,000	14,000
Mathematical scientist	S	S	3,000	D	D	1,000	D	D	S	*	S	S
Physical scientist	7,000	3,000	4,000	D	D	1,000	D	D	5,000	D	6,000	1,000
Psychologist	17,000	11,000	6,000	5,000	D	1,000	D	D	11,000	D	16,000	D
Social scientist	28,000	15,000	12,000	2,000	D	2,000	2,000	D	22,000	*	27,000	1,000
Engineering occupations	32,000	6,000	26,000	5,000	D	3,000	S	D	22,000	D	28,000	4,000
S&E-related occupations ^c	1,656,000	1,205,000	451,000	106,000	S	192,000	155,000	5,000	1,154,000	40,000	1,550,000	106,000
Non-S&E occupations	1,210,000	842,000	368,000	115,000	4,000	86,000	127,000	2,000	853,000	23,000	1,083,000	127,000
Self-employed	1,652,000	777,000	875,000	142,000	5,000	137,000	68,000	1,000	1,274,000	25,000	1,414,000	238,000
S&E occupations ^b	211,000	80,000	131,000	17,000	D	22,000	5,000	D	160,000	7,000	187,000	24,000
Science occupations	169,000	76,000	93,000	15,000	D	18,000	4,000	D	125,000	7,000	151,000	18,000
Biological/life scientist	8,000	3,000	5,000	D	D	D	D	D	6,000	D	7,000	1,000
Computer and information scientist	89,000	27,000	62,000	10,000	D	13,000	D	D	58,000	6,000	81,000	9,000
Mathematical scientist	S	1,000	S	D	D	D	D	D	S	D	S	D
Physical scientist	7,000	1,000	5,000	D	D	S	D	D	4,000	D	6,000	D
Psychologist	46,000	35,000	11,000	3,000	D	1,000	D	D	40,000	D	42,000	5,000
Social scientist	11,000	S	3,000	D	D	D	D	D	9,000	S	10,000	S
Engineering occupations	42,000	4,000	37,000	2,000	D	3,000	D	D	35,000	*	36,000	5,000
S&E-related occupations ^c	371,000	209,000	162,000	44,000	D	33,000	14,000	D	273,000	5,000	320,000	51,000
Non-S&E occupations	1,071,000	488,000	583,000	81,000	3,000	82,000	50,000	1,000	841,000	13,000	907,000	163,000
State or local government	1,614,000	804,000	809,000	198,000	6,000	157,000	214,000	8,000	994,000	37,000	1,440,000	174,000
S&E occupations ^b	370,000	134,000	235,000	47,000	1,000	52,000	41,000	2,000	220,000	8,000	331,000	39,000
Science occupations	267,000	113,000	154,000	34,000	1,000	37,000	35,000	S	152,000	6,000	245,000	22,000
Biological/life scientist	43,000	20,000	23,000	2,000	D	5,000	S	D	31,000	S	40,000	3,000

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		Female	Male		American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Without disability	With disability
Computer and information scientist	122,000	46,000	76,000	11,000	D	27,000	20,000	D	62,000	S	112,000	10,000
Mathematical scientist	23,000	3,000	21,000	*	D	1,000	D	D	S	D	23,000	S
Physical scientist	35,000	15,000	19,000	5,000	D	3,000	2,000	D	23,000	1,000	29,000	5,000
Psychologist	9,000	7,000	2,000	4,000	D	D	1,000	D	4,000	D	8,000	D
Social scientist	35,000	22,000	13,000	S	D	S	S	D	19,000	S	32,000	S
Engineering occupations	103,000	21,000	82,000	13,000	D	14,000	6,000	D	68,000	2,000	87,000	16,000
S&E-related occupations ^c	330,000	205,000	125,000	45,000	S	41,000	35,000	S	195,000	8,000	304,000	26,000
Non-S&E occupations	914,000	465,000	449,000	107,000	2,000	64,000	138,000	3,000	579,000	21,000	805,000	109,000
Universities and 4-year colleges ^d	2,168,000	1,166,000	1,002,000	147,000	13,000	371,000	124,000	12,000	1,462,000	40,000	1,961,000	208,000
S&E occupations ^b	880,000	364,000	516,000	55,000	S	198,000	44,000	S	565,000	14,000	793,000	87,000
Science occupations	764,000	339,000	425,000	49,000	S	157,000	41,000	S	501,000	12,000	690,000	74,000
Biological/life scientist	222,000	109,000	113,000	15,000	D	59,000	6,000	D	138,000	3,000	206,000	16,000
Computer and information scientist	150,000	41,000	110,000	13,000	D	36,000	7,000	D	92,000	2,000	136,000	15,000
Mathematical scientist	61,000	27,000	34,000	2,000	D	16,000	2,000	D	40,000	1,000	57,000	4,000
Physical scientist	109,000	29,000	81,000	4,000	D	27,000	2,000	D	73,000	S	99,000	11,000
Psychologist	67,000	43,000	25,000	4,000	D	7,000	3,000	D	51,000	S	59,000	8,000
Social scientist	154,000	91,000	63,000	11,000	D	12,000	22,000	D	107,000	2,000	134,000	20,000
Engineering occupations	116,000	25,000	91,000	6,000	D	41,000	3,000	D	63,000	2,000	103,000	14,000
S&E-related occupations ^c	595,000	370,000	225,000	45,000	D	106,000	20,000	S	406,000	11,000	557,000	38,000
Non-S&E occupations	694,000	433,000	261,000	47,000	S	67,000	61,000	S	492,000	14,000	611,000	83,000
Other educational institutions	2,785,000	1,901,000	884,000	282,000	6,000	151,000	262,000	2,000	2,032,000	51,000	2,475,000	310,000
S&E occupations ^b	216,000	110,000	106,000	17,000	S	19,000	12,000	D	163,000	2,000	194,000	22,000
Science occupations	210,000	110,000	100,000	17,000	S	18,000	11,000	D	159,000	2,000	188,000	22,000
Biological/life scientist	19,000	12,000	7,000	2,000	D	S	D	D	16,000	D	16,000	3,000
Computer and information scientist	51,000	24,000	27,000	3,000	D	8,000	3,000	D	34,000	1,000	44,000	7,000
Mathematical scientist	38,000	18,000	20,000	S	D	6,000	1,000	D	30,000	D	33,000	4,000
Physical scientist	26,000	2,000	24,000	1,000	D	D	D	D	24,000	D	26,000	D
Psychologist	57,000	44,000	13,000	S	D	2,000	4,000	D	41,000	1,000	52,000	5,000
Social scientist	20,000	10,000	10,000	S	D	1,000	3,000	D	15,000	D	17,000	3,000
Engineering occupations	6,000	D	6,000	D	D	1,000	D	D	4,000	D	6,000	D
S&E-related occupations ^c	1,165,000	731,000	434,000	93,000	1,000	40,000	87,000	1,000	919,000	24,000	1,039,000	126,000

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(Number)

Sector and occupation	Total	Sex		Hispanic or Latino ^a	Not Hispanic or Latino					Disability status		
		Female	Male		American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	Without disability	With disability
Non-S&E occupations	1,405,000	1,060,000	345,000	173,000	2,000	91,000	162,000	S	950,000	25,000	1,243,000	162,000

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

S&E = science and engineering.

^a Hispanic or Latino may be any race.

^b S&E occupations include S&E postsecondary teachers.

^c S&E-related occupations include health occupations.

^d Includes medical schools and university-affiliated research institutes.

Note(s)

Numbers are rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. The National Survey of College Graduates asks the degree of difficulty—none, slight, moderate, severe, or unable to do—an individual has in seeing (with glasses), hearing (with hearing aid), walking without assistance, lifting 10 pounds, or concentrating, remembering, or making decisions. Respondents who answered "moderate," "severe," or "unable to do" for any activity were classified as having a disability. 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.