

Table 9-19

Employed scientists and engineers, by sector of employment, broad occupation, sex, ethnicity, race, and disability status: 2019

(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	28,627,000	13,720,000	14,907,000	2,646,000	89,000	3,869,000	2,065,000	82,000	19,225,000	650,000	25,699,000	2,928,000
S&E occupations ^b	7,466,000	2,193,000	5,274,000	564,000	S	1,543,000	379,000	17,000	4,784,000	158,000	6,795,000	671,000
Science occupations	5,545,000	1,883,000	3,662,000	405,000	S	1,212,000	302,000	9,000	3,479,000	121,000	5,050,000	495,000
Biological, agricultural, and other life scientist	698,000	337,000	361,000	64,000	1,000	157,000	23,000	D	439,000	14,000	642,000	56,000
Computer and information scientist	3,409,000	820,000	2,589,000	214,000	S	885,000	189,000	6,000	2,017,000	84,000	3,106,000	303,000
Mathematical scientist	365,000	155,000	210,000	24,000	D	70,000	S	D	242,000	4,000	339,000	26,000
Physical scientist	409,000	142,000	267,000	27,000	1,000	55,000	18,000	S	300,000	7,000	364,000	46,000
Psychologist	276,000	220,000	56,000	24,000	*	10,000	14,000	D	222,000	5,000	249,000	27,000
Social scientist	387,000	208,000	179,000	52,000	S	34,000	33,000	S	259,000	7,000	350,000	37,000
Engineering occupations	1,921,000	310,000	1,612,000	159,000	5,000	331,000	77,000	7,000	1,305,000	37,000	1,745,000	177,000
S&E-related occupations ^c	8,893,000	5,109,000	3,785,000	821,000	29,000	1,151,000	613,000	30,000	6,053,000	198,000	8,148,000	745,000
Non-S&E occupations ^d	12,267,000	6,419,000	5,848,000	1,261,000	39,000	1,176,000	1,074,000	35,000	8,388,000	295,000	10,755,000	1,512,000
Business or industry	15,580,000	5,972,000	9,608,000	1,380,000	41,000	2,461,000	933,000	35,000	10,399,000	333,000	14,014,000	1,565,000
S&E occupations ^b	4,878,000	1,118,000	3,760,000	343,000	5,000	1,121,000	223,000	9,000	3,066,000	110,000	4,447,000	431,000
Science occupations	3,375,000	889,000	2,485,000	218,000	2,000	868,000	169,000	S	2,029,000	82,000	3,079,000	296,000
Biological, agricultural, and other life scientist	233,000	113,000	120,000	20,000	S	57,000	8,000	D	142,000	5,000	216,000	16,000
Computer and information scientist	2,674,000	570,000	2,104,000	162,000	S	748,000	138,000	S	1,551,000	68,000	2,441,000	233,000
Mathematical scientist	178,000	68,000	110,000	13,000	D	41,000	S	D	109,000	2,000	168,000	9,000
Physical scientist	169,000	60,000	109,000	11,000	D	15,000	5,000	*	133,000	4,000	147,000	22,000
Psychologist	59,000	49,000	9,000	5,000	D	1,000	2,000	D	50,000	S	50,000	8,000
Social scientist	63,000	30,000	32,000	7,000	D	6,000	S	D	45,000	2,000	56,000	7,000
Engineering occupations	1,503,000	229,000	1,275,000	126,000	3,000	253,000	54,000	3,000	1,037,000	28,000	1,368,000	136,000
S&E-related occupations ^c	4,299,000	2,110,000	2,189,000	430,000	S	618,000	269,000	5,000	2,877,000	85,000	3,930,000	369,000
Non-S&E occupations ^d	6,403,000	2,745,000	3,659,000	606,000	21,000	721,000	440,000	21,000	4,456,000	137,000	5,638,000	765,000
Federal government	1,262,000	492,000	770,000	126,000	S	127,000	156,000	3,000	792,000	43,000	1,123,000	139,000
S&E occupations ^b	421,000	128,000	293,000	27,000	S	42,000	40,000	1,000	286,000	11,000	385,000	36,000
Science occupations	293,000	107,000	186,000	15,000	S	28,000	33,000	D	198,000	6,000	266,000	27,000
Biological, agricultural, and other life scientist	58,000	33,000	26,000	S	D	8,000	2,000	D	43,000	D	54,000	4,000

Table 9-19

Employed scientists and engineers, by sector of employment, broad occupation, sex, ethnicity, race, and disability status: 2019

(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
Computer and information scientist	105,000	27,000	79,000	3,000	D	13,000	13,000	D	61,000	3,000	93,000	12,000
Mathematical scientist	32,000	10,000	22,000	S	D	1,000	7,000	D	20,000	*	30,000	2,000
Physical scientist	43,000	12,000	31,000	1,000	D	3,000	S	D	33,000	1,000	38,000	5,000
Psychologist	12,000	8,000	3,000	D	D	D	D	D	9,000	D	11,000	S
Social scientist	42,000	17,000	26,000	2,000	D	3,000	5,000	D	32,000	1,000	41,000	2,000
Engineering occupations	128,000	21,000	107,000	12,000	D	14,000	8,000	D	88,000	5,000	118,000	9,000
S&E-related occupations ^c	299,000	128,000	171,000	34,000	S	44,000	43,000	D	174,000	3,000	265,000	34,000
Non-S&E occupations ^d	542,000	236,000	305,000	64,000	1,000	41,000	73,000	S	333,000	28,000	473,000	69,000
Nonprofit	3,354,000	2,272,000	1,083,000	275,000	7,000	382,000	289,000	24,000	2,281,000	95,000	3,067,000	287,000
S&E occupations ^b	378,000	171,000	207,000	27,000	D	65,000	16,000	D	261,000	5,000	348,000	30,000
Science occupations	342,000	167,000	176,000	26,000	D	59,000	15,000	D	237,000	5,000	314,000	28,000
Biological, agricultural, and other life scientist	56,000	24,000	32,000	7,000	D	12,000	D	D	37,000	S	50,000	6,000
Computer and information scientist	196,000	90,000	106,000	11,000	D	39,000	10,000	D	132,000	S	182,000	14,000
Mathematical scientist	27,000	14,000	13,000	S	D	4,000	D	D	21,000	D	22,000	5,000
Physical scientist	8,000	2,000	6,000	S	D	*	D	D	5,000	D	8,000	D
Psychologist	21,000	16,000	5,000	3,000	D	1,000	D	D	16,000	D	19,000	S
Social scientist	35,000	20,000	15,000	2,000	D	3,000	2,000	D	27,000	*	33,000	2,000
Engineering occupations	35,000	4,000	31,000	1,000	D	6,000	S	D	24,000	D	34,000	2,000
S&E-related occupations ^c	1,757,000	1,267,000	490,000	112,000	3,000	230,000	138,000	S	1,208,000	49,000	1,638,000	120,000
Non-S&E occupations ^d	1,220,000	834,000	386,000	137,000	4,000	87,000	135,000	S	811,000	42,000	1,082,000	138,000
Self-employed	1,658,000	828,000	830,000	110,000	2,000	165,000	97,000	D	1,240,000	43,000	1,433,000	225,000
S&E occupations ^b	189,000	72,000	117,000	15,000	D	21,000	4,000	D	147,000	1,000	166,000	23,000
Science occupations	151,000	66,000	85,000	10,000	D	18,000	3,000	D	120,000	S	135,000	16,000
Biological, agricultural, and other life scientist	14,000	7,000	7,000	D	D	3,000	D	D	10,000	D	13,000	1,000
Computer and information scientist	70,000	19,000	51,000	4,000	D	12,000	2,000	D	52,000	D	60,000	10,000
Mathematical scientist	S	S	S	D	D	*	D	D	S	D	S	D
Physical scientist	12,000	S	10,000	D	D	D	D	D	10,000	D	10,000	S
Psychologist	46,000	34,000	12,000	4,000	D	1,000	D	D	39,000	D	42,000	4,000

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(Number)

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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
Social scientist	7,000	2,000	5,000	*	D	D	D	D	6,000	D	7,000	*
Engineering occupations	38,000	6,000	32,000	5,000	D	3,000	D	D	28,000	*	31,000	7,000
S&E-related occupations ^c	414,000	257,000	157,000	22,000	D	42,000	22,000	D	305,000	23,000	371,000	44,000
Non-S&E occupations ^d	1,055,000	499,000	556,000	74,000	2,000	102,000	70,000	D	788,000	19,000	896,000	159,000
State or local government	1,640,000	850,000	790,000	227,000	6,000	155,000	227,000	8,000	987,000	31,000	1,455,000	185,000
S&E occupations ^b	377,000	145,000	231,000	41,000	S	54,000	34,000	S	237,000	7,000	338,000	39,000
Science occupations	278,000	124,000	154,000	33,000	*	37,000	27,000	S	174,000	6,000	250,000	28,000
Biological, agricultural, and other life scientist	62,000	26,000	36,000	7,000	D	6,000	S	D	43,000	S	57,000	S
Computer and information scientist	119,000	45,000	74,000	11,000	D	27,000	14,000	D	65,000	2,000	105,000	14,000
Mathematical scientist	S	S	2,000	1,000	D	*	S	D	S	D	S	*
Physical scientist	42,000	17,000	24,000	4,000	D	2,000	S	D	32,000	1,000	36,000	6,000
Psychologist	9,000	8,000	*	D	D	D	S	D	5,000	D	8,000	D
Social scientist	34,000	18,000	16,000	9,000	D	2,000	S	D	19,000	S	32,000	2,000
Engineering occupations	99,000	21,000	78,000	9,000	D	17,000	7,000	D	63,000	1,000	88,000	11,000
S&E-related occupations ^c	332,000	195,000	137,000	49,000	1,000	40,000	45,000	S	188,000	5,000	299,000	33,000
Non-S&E occupations ^d	931,000	510,000	421,000	136,000	3,000	62,000	149,000	2,000	562,000	19,000	819,000	113,000
Universities and 4-year colleges ^e	2,290,000	1,275,000	1,015,000	215,000	S	419,000	132,000	8,000	1,464,000	42,000	2,099,000	192,000
S&E occupations ^b	1,013,000	450,000	563,000	91,000	1,000	226,000	46,000	2,000	631,000	16,000	925,000	89,000
Science occupations	905,000	421,000	484,000	85,000	*	188,000	44,000	S	572,000	15,000	824,000	81,000
Biological, agricultural, and other life scientist	253,000	121,000	132,000	23,000	D	70,000	8,000	D	147,000	5,000	232,000	21,000
Computer and information scientist	176,000	45,000	131,000	17,000	D	41,000	8,000	D	107,000	3,000	160,000	16,000
Mathematical scientist	80,000	32,000	48,000	3,000	D	21,000	3,000	D	52,000	S	75,000	5,000
Physical scientist	127,000	45,000	81,000	8,000	D	33,000	3,000	D	81,000	*	117,000	9,000
Psychologist	83,000	64,000	19,000	3,000	D	3,000	4,000	D	70,000	3,000	77,000	6,000
Social scientist	187,000	114,000	73,000	31,000	D	19,000	18,000	D	115,000	2,000	164,000	23,000
Engineering occupations	108,000	29,000	79,000	6,000	D	38,000	2,000	D	59,000	2,000	101,000	7,000
S&E-related occupations ^c	648,000	433,000	215,000	60,000	D	132,000	32,000	S	402,000	10,000	625,000	23,000

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(Number)

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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
Non-S&E occupations ^d	629,000	392,000	237,000	64,000	2,000	61,000	53,000	S	432,000	15,000	549,000	80,000
Other educational institutions	2,843,000	2,031,000	811,000	314,000	9,000	160,000	231,000	3,000	2,062,000	64,000	2,508,000	335,000
S&E occupations ^b	211,000	109,000	102,000	19,000	D	14,000	15,000	D	156,000	6,000	188,000	24,000
Science occupations	201,000	108,000	92,000	19,000	D	13,000	12,000	D	150,000	6,000	182,000	18,000
Biological, agricultural, and other life scientist	23,000	14,000	9,000	2,000	D	S	D	D	19,000	D	21,000	S
Computer and information scientist	68,000	24,000	44,000	6,000	D	S	S	D	50,000	S	64,000	4,000
Mathematical scientist	34,000	19,000	15,000	2,000	D	2,000	S	D	27,000	D	30,000	S
Physical scientist	9,000	3,000	6,000	2,000	D	1,000	D	D	5,000	D	7,000	D
Psychologist	47,000	41,000	7,000	7,000	D	3,000	3,000	D	34,000	S	42,000	6,000
Social scientist	19,000	7,000	13,000	1,000	D	D	2,000	D	15,000	D	19,000	1,000
Engineering occupations	11,000	D	10,000	D	D	D	D	D	6,000	D	5,000	S
S&E-related occupations ^c	1,144,000	719,000	425,000	113,000	1,000	44,000	62,000	1,000	900,000	23,000	1,021,000	123,000
Non-S&E occupations ^d	1,487,000	1,203,000	284,000	181,000	7,000	102,000	154,000	2,000	1,007,000	34,000	1,299,000	188,000

* = 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; race categories exclude Hispanic origin.

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

^c S&E-related occupations include health-related occupations (e.g., diagnosing practitioners, registered nurses, and postsecondary teachers in health and related sciences), S&E managers, S&E precollege teachers, S&E technicians and technologists, and other S&E-related occupations.

^d Non-S&E occupations do not include S&E-related occupations.

^e 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 Center for Science and Engineering Statistics, National Survey of College Graduates, 2019.