

Table 9-7

## Employed scientists and engineers, by ethnicity, race, occupation, highest degree level, and sex: 2019

(Number)

Ethnicity, race, and occupation	All degrees <sup>a</sup>		Bachelor's		Master's		Doctorate	
	Female	Male	Female	Male	Female	Male	Female	Male
All ethnicities and races	13,720,000	14,907,000	7,460,000	8,581,000	4,537,000	4,087,000	742,000	1,019,000
S&E occupations <sup>b</sup>	2,193,000	5,274,000	1,034,000	3,142,000	757,000	1,529,000	365,000	573,000
Science occupations	1,883,000	3,662,000	870,000	2,147,000	631,000	1,036,000	345,000	454,000
Biological, agricultural, and other life scientist	337,000	361,000	129,000	148,000	83,000	69,000	118,000	137,000
Computer and information scientist	820,000	2,589,000	522,000	1,755,000	269,000	745,000	24,000	82,000
Mathematical scientist	155,000	210,000	46,000	80,000	71,000	84,000	36,000	46,000
Physical scientist	142,000	267,000	78,000	112,000	37,000	60,000	28,000	94,000
Psychologist	220,000	56,000	44,000	6,000	85,000	16,000	70,000	29,000
Social scientist	208,000	179,000	51,000	46,000	86,000	62,000	69,000	66,000
Engineering occupations	310,000	1,612,000	163,000	995,000	126,000	493,000	20,000	119,000
S&E-related occupations <sup>c</sup>	5,109,000	3,785,000	2,845,000	1,949,000	1,469,000	864,000	188,000	199,000
Non-S&E occupations <sup>d</sup>	6,419,000	5,848,000	3,581,000	3,490,000	2,311,000	1,695,000	188,000	248,000
Hispanic or Latino <sup>e</sup>	1,376,000	1,270,000	836,000	831,000	375,000	286,000	52,000	63,000
S&E occupations <sup>b</sup>	182,000	382,000	99,000	273,000	55,000	81,000	24,000	25,000
Science occupations	151,000	255,000	79,000	183,000	45,000	49,000	23,000	20,000
Biological, agricultural, and other life scientist	33,000	30,000	17,000	19,000	9,000	5,000	7,000	5,000
Computer and information scientist	40,000	174,000	29,000	141,000	10,000	30,000	S	2,000
Mathematical scientist	9,000	15,000	3,000	9,000	3,000	5,000	S	1,000
Physical scientist	11,000	17,000	5,000	9,000	4,000	3,000	2,000	4,000
Psychologist	22,000	2,000	S	D	11,000	1,000	7,000	S
Social scientist	35,000	17,000	S	4,000	9,000	6,000	3,000	6,000
Engineering occupations	31,000	128,000	20,000	90,000	10,000	31,000	1,000	5,000
S&E-related occupations <sup>c</sup>	492,000	328,000	292,000	193,000	117,000	58,000	13,000	22,000
Non-S&E occupations <sup>d</sup>	702,000	559,000	445,000	366,000	203,000	147,000	15,000	16,000
Not Hispanic or Latino								
American Indian or Alaska Native	42,000	48,000	24,000	28,000	S	9,000	2,000	S
S&E occupations <sup>b</sup>	4,000	S	3,000	S	1,000	2,000	*	D
Science occupations	3,000	S	S	S	S	1,000	*	D
Biological, agricultural, and other life scientist	*	S	D	S	D	D	D	D
Computer and information scientist	D	S	D	S	D	D	D	D
Mathematical scientist	D	D	D	D	D	D	D	D
Physical scientist	D	1,000	D	D	D	D	D	D
Psychologist	D	D	D	D	D	D	D	D
Social scientist	D	D	D	D	D	D	D	D
Engineering occupations	S	3,000	D	S	D	S	D	D
S&E-related occupations <sup>c</sup>	15,000	14,000	8,000	4,000	S	S	D	D
Non-S&E occupations <sup>d</sup>	22,000	17,000	14,000	9,000	7,000	5,000	D	D
Asian	1,711,000	2,158,000	849,000	980,000	551,000	774,000	144,000	255,000
S&E occupations <sup>b</sup>	488,000	1,055,000	190,000	447,000	215,000	435,000	77,000	166,000
Science occupations	425,000	787,000	162,000	340,000	184,000	318,000	71,000	122,000
Biological, agricultural, and other life scientist	72,000	86,000	15,000	19,000	18,000	13,000	35,000	51,000
Computer and information scientist	273,000	612,000	130,000	297,000	130,000	279,000	11,000	34,000
Mathematical scientist	34,000	36,000	7,000	S	18,000	13,000	9,000	14,000
Physical scientist	15,000	40,000	5,000	14,000	3,000	7,000	8,000	19,000
Psychologist	9,000	1,000	2,000	D	3,000	D	3,000	S

Table 9-7

**Employed scientists and engineers, by ethnicity, race, occupation, highest degree level, and sex: 2019**

(Number)

Ethnicity, race, and occupation	All degrees <sup>a</sup>		Bachelor's		Master's		Doctorate	
	Female	Male	Female	Male	Female	Male	Female	Male
Social scientist	21,000	13,000	3,000	2,000	12,000	6,000	5,000	5,000
Engineering occupations	64,000	268,000	28,000	106,000	31,000	117,000	5,000	44,000
S&E-related occupations <sup>c</sup>	625,000	525,000	310,000	223,000	139,000	139,000	41,000	48,000
Non-S&E occupations <sup>d</sup>	597,000	579,000	348,000	310,000	198,000	200,000	26,000	41,000
Black or African American	1,136,000	930,000	596,000	557,000	440,000	251,000	52,000	58,000
S&E occupations <sup>b</sup>	135,000	244,000	63,000	156,000	50,000	65,000	18,000	22,000
Science occupations	123,000	180,000	58,000	112,000	44,000	46,000	18,000	20,000
Biological, agricultural, and other life scientist	12,000	11,000	5,000	5,000	5,000	2,000	2,000	3,000
Computer and information scientist	56,000	133,000	42,000	97,000	13,000	33,000	D	3,000
Mathematical scientist	S	11,000	1,000	S	S	3,000	S	S
Physical scientist	7,000	11,000	6,000	S	S	5,000	*	2,000
Psychologist	11,000	2,000	D	D	S	S	5,000	D
Social scientist	22,000	12,000	3,000	S	10,000	1,000	9,000	7,000
Engineering occupations	12,000	65,000	6,000	44,000	6,000	19,000	D	2,000
S&E-related occupations <sup>c</sup>	355,000	257,000	184,000	152,000	129,000	47,000	16,000	S
Non-S&E occupations <sup>d</sup>	645,000	428,000	349,000	249,000	262,000	138,000	17,000	19,000
Native Hawaiian or Other Pacific Islander	26,000	56,000	14,000	49,000	8,000	5,000	D	*
S&E occupations <sup>b</sup>	3,000	14,000	1,000	11,000	2,000	3,000	D	D
Science occupations	2,000	7,000	S	S	S	S	D	D
Biological, agricultural, and other life scientist	D	D	D	D	D	D	D	D
Computer and information scientist	D	S	D	S	D	D	D	D
Mathematical scientist	D	D	D	D	D	D	D	D
Physical scientist	D	D	D	D	D	D	D	D
Psychologist	D	D	D	D	D	D	D	D
Social scientist	D	*	D	D	D	D	D	D
Engineering occupations	D	7,000	D	S	D	S	D	D
S&E-related occupations <sup>c</sup>	9,000	S	5,000	S	S	S	D	D
Non-S&E occupations <sup>d</sup>	15,000	20,000	9,000	19,000	5,000	S	D	D
White	9,088,000	10,137,000	4,944,000	5,944,000	3,049,000	2,675,000	472,000	632,000
S&E occupations <sup>b</sup>	1,322,000	3,461,000	638,000	2,171,000	422,000	917,000	241,000	355,000
Science occupations	1,132,000	2,347,000	538,000	1,441,000	345,000	602,000	228,000	289,000
Biological, agricultural, and other life scientist	212,000	227,000	87,000	100,000	49,000	48,000	72,000	76,000
Computer and information scientist	423,000	1,595,000	296,000	1,158,000	113,000	389,000	12,000	43,000
Mathematical scientist	97,000	146,000	35,000	58,000	39,000	61,000	23,000	26,000
Physical scientist	105,000	196,000	59,000	82,000	28,000	43,000	18,000	69,000
Psychologist	173,000	49,000	40,000	5,000	64,000	14,000	54,000	26,000
Social scientist	123,000	136,000	20,000	38,000	52,000	47,000	50,000	47,000
Engineering occupations	190,000	1,114,000	100,000	730,000	77,000	315,000	13,000	66,000
S&E-related occupations <sup>c</sup>	3,491,000	2,562,000	1,985,000	1,313,000	1,044,000	597,000	108,000	108,000
Non-S&E occupations <sup>d</sup>	4,275,000	4,113,000	2,320,000	2,460,000	1,582,000	1,161,000	123,000	169,000
More than one race	342,000	308,000	197,000	191,000	98,000	87,000	20,000	9,000
S&E occupations <sup>b</sup>	58,000	100,000	39,000	70,000	12,000	25,000	5,000	5,000
Science occupations	48,000	73,000	32,000	52,000	11,000	17,000	4,000	3,000
Biological, agricultural, and other life scientist	6,000	7,000	3,000	5,000	2,000	1,000	1,000	2,000

**Table 9-7****Employed scientists and engineers, by ethnicity, race, occupation, highest degree level, and sex: 2019**

(Number)

Ethnicity, race, and occupation	All degrees <sup>a</sup>		Bachelor's		Master's		Doctorate	
	Female	Male	Female	Male	Female	Male	Female	Male
Computer and information scientist	26,000	58,000	23,000	45,000	3,000	12,000	D	D
Mathematical scientist	2,000	2,000	S	S	1,000	S	D	*
Physical scientist	4,000	3,000	S	S	S	S	D	*
Psychologist	4,000	S	D	D	1,000	D	S	*
Social scientist	6,000	1,000	S	D	3,000	1,000	1,000	D
Engineering occupations	10,000	27,000	8,000	18,000	2,000	8,000	D	1,000
S&E-related occupations <sup>c</sup>	121,000	76,000	62,000	44,000	32,000	20,000	S	3,000
Non-S&E occupations <sup>d</sup>	163,000	131,000	96,000	78,000	54,000	43,000	6,000	2,000

\* = 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> All degrees includes professional degrees, which are not shown separately.

<sup>b</sup> S&E occupations include S&E postsecondary teachers.

<sup>c</sup> 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.

<sup>d</sup> Non-S&E occupations do not include S&E-related occupations.

<sup>e</sup> Hispanic or Latino may be any race; race categories exclude Hispanic origin.

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