

Table 1-3

## Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2021

(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>	30,255,000	2,953,000	66,000	4,240,000	2,241,000	74,000	20,007,000	673,000
S&E occupations	7,894,000	692,000	10,000	1,665,000	399,000	16,000	4,943,000	169,000
Science occupations	5,945,000	514,000	8,000	1,348,000	333,000	10,000	3,598,000	133,000
Biological, agricultural, and other life scientist	794,000	72,000	2,000	167,000	32,000	1,000	501,000	19,000
Agricultural or food scientist	74,000	9,000	D	8,000	S	D	53,000	1,000
Biological and medical scientist	572,000	52,000	S	145,000	27,000	1,000	335,000	11,000
Environmental life scientist	45,000	3,000	D	S	D	D	34,000	S
Postsecondary teacher	103,000	8,000	D	12,000	3,000	D	78,000	*
Computer and information scientist	3,663,000	305,000	4,000	992,000	210,000	6,000	2,060,000	85,000
Computer and information scientist	3,627,000	303,000	4,000	976,000	209,000	6,000	2,044,000	85,000
Postsecondary teacher	36,000	3,000	D	16,000	1,000	D	16,000	D
Mathematical scientist	368,000	23,000	D	72,000	32,000	D	237,000	4,000
Mathematical scientist	293,000	17,000	D	54,000	30,000	D	189,000	3,000
Postsecondary teacher	75,000	6,000	D	18,000	2,000	D	47,000	1,000
Physical scientist	408,000	32,000	1,000	61,000	16,000	S	288,000	9,000
Chemist, except biochemist	114,000	8,000	D	23,000	5,000	D	75,000	2,000
Earth, atmospheric, and ocean scientist	91,000	6,000	D	8,000	1,000	D	74,000	2,000
Physicist	41,000	S	D	11,000	D	D	22,000	D
Other physical and related scientist, including astronomer	82,000	5,000	D	6,000	S	D	64,000	3,000
Postsecondary teacher	80,000	8,000	D	14,000	2,000	D	54,000	1,000
Psychologist	280,000	27,000	*	15,000	12,000	D	216,000	9,000
Psychologist	233,000	25,000	*	10,000	10,000	D	180,000	S
Postsecondary teacher	47,000	2,000	D	5,000	1,000	D	36,000	2,000
Social scientist	432,000	54,000	D	42,000	32,000	S	296,000	7,000
Economist	47,000	4,000	D	5,000	1,000	D	36,000	1,000
Political scientist	39,000	S	D	3,000	D	D	24,000	1,000
Anthropologist	13,000	1,000	D	D	D	D	11,000	D
Other social scientist, including sociologist	191,000	27,000	D	18,000	17,000	*	126,000	3,000
Postsecondary teacher	141,000	13,000	D	16,000	11,000	D	99,000	2,000
Engineering occupations	1,949,000	178,000	2,000	316,000	65,000	7,000	1,345,000	36,000
Aerospace, aeronautical, or astronautical engineer	127,000	10,000	D	15,000	3,000	D	96,000	3,000
Chemical engineer	80,000	4,000	D	13,000	3,000	D	58,000	1,000
Civil, architectural, or sanitary engineer	303,000	34,000	D	40,000	10,000	D	213,000	5,000
Electrical or computer hardware engineer	399,000	33,000	D	105,000	20,000	S	232,000	7,000
Industrial engineer	96,000	12,000	D	12,000	3,000	D	67,000	1,000

Table 1-3

## Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2021

(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
Mechanical engineer	388,000	31,000	D	53,000	9,000	1,000	287,000	7,000
Other engineer	501,000	50,000	S	63,000	16,000	2,000	360,000	9,000
Postsecondary teacher	55,000	5,000	D	15,000	1,000	D	32,000	1,000
S&E-related occupations	9,522,000	843,000	22,000	1,264,000	756,000	36,000	6,412,000	189,000
Health-related occupation	6,136,000	575,000	13,000	820,000	534,000	30,000	4,026,000	138,000
S&E manager, including health	1,135,000	91,000	S	158,000	60,000	S	803,000	17,000
S&E pre-college teacher	915,000	51,000	S	29,000	80,000	1,000	734,000	13,000
S&E technician/technologist	1,088,000	103,000	1,000	223,000	77,000	2,000	666,000	16,000
Other S&E-related occupation	248,000	22,000	D	34,000	4,000	D	183,000	4,000
Non-S&E occupations	12,840,000	1,418,000	33,000	1,312,000	1,087,000	22,000	8,652,000	315,000
Arts, humanities, and related occupation	317,000	28,000	D	36,000	16,000	D	225,000	11,000
Management-related occupation	3,082,000	341,000	8,000	384,000	246,000	S	2,023,000	75,000
Non-S&E manager	2,217,000	185,000	5,000	270,000	133,000	S	1,573,000	43,000
Non-S&E postsecondary teacher	185,000	18,000	D	21,000	16,000	D	124,000	5,000
Non-S&E precollege teacher	862,000	111,000	2,000	43,000	85,000	2,000	605,000	13,000
Sales and marketing occupation	1,312,000	132,000	1,000	148,000	66,000	D	931,000	32,000
Social service and related occupation	1,092,000	161,000	7,000	45,000	165,000	1,000	680,000	33,000
Other non-S&E occupation	3,773,000	440,000	10,000	364,000	360,000	5,000	2,490,000	103,000
Bachelor's	16,827,000	1,824,000	36,000	2,035,000	1,184,000	51,000	11,296,000	401,000
S&E occupations	4,438,000	438,000	8,000	683,000	238,000	11,000	2,947,000	114,000
Science occupations	3,216,000	313,000	5,000	558,000	196,000	6,000	2,047,000	90,000
Biological, agricultural, and other life scientist	295,000	36,000	S	34,000	16,000	1,000	201,000	6,000
Agricultural or food scientist	34,000	5,000	D	2,000	S	D	25,000	D
Biological and medical scientist	216,000	28,000	S	30,000	14,000	1,000	137,000	5,000
Environmental life scientist	26,000	D	D	D	D	D	25,000	D
Postsecondary teacher	18,000	D	D	S	D	D	14,000	D
Computer and information scientist	2,443,000	225,000	4,000	476,000	158,000	4,000	1,505,000	70,000
Computer and information scientist	2,438,000	224,000	4,000	473,000	158,000	4,000	1,504,000	70,000
Postsecondary teacher	4,000	D	D	3,000	D	D	1,000	D
Mathematical scientist	131,000	12,000	D	16,000	8,000	D	94,000	1,000
Mathematical scientist	124,000	10,000	D	15,000	7,000	D	90,000	1,000
Postsecondary teacher	7,000	S	D	S	D	D	4,000	D
Physical scientist	177,000	17,000	*	17,000	7,000	*	129,000	6,000
Chemist, except biochemist	65,000	6,000	D	8,000	3,000	D	45,000	2,000

Table 1-3

## Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2021

(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
Earth, atmospheric, and ocean scientist	40,000	S	D	1,000	D	D	36,000	1,000
Physicist	11,000	S	D	3,000	D	D	5,000	D
Other physical and related scientist, including astronomer	47,000	3,000	D	2,000	S	D	37,000	2,000
Postsecondary teacher	14,000	S	D	4,000	D	D	S	D
Psychologist	41,000	1,000	D	1,000	1,000	D	34,000	D
Psychologist	38,000	1,000	D	1,000	D	D	31,000	D
Postsecondary teacher	3,000	D	D	D	D	D	3,000	D
Social scientist	129,000	22,000	D	14,000	S	D	84,000	2,000
Economist	9,000	1,000	D	1,000	D	D	S	D
Political scientist	10,000	D	D	D	D	D	9,000	D
Anthropologist	3,000	D	D	D	D	D	3,000	D
Other social scientist, including sociologist	91,000	19,000	D	8,000	S	D	57,000	2,000
Postsecondary teacher	15,000	S	D	D	D	D	8,000	D
Engineering occupations	1,222,000	125,000	2,000	125,000	42,000	5,000	899,000	24,000
Aerospace, aeronautical, or astronautical engineer	66,000	6,000	D	7,000	2,000	D	49,000	S
Chemical engineer	53,000	3,000	D	5,000	S	D	42,000	1,000
Civil, architectural, or sanitary engineer	194,000	23,000	D	18,000	7,000	D	140,000	4,000
Electrical or computer hardware engineer	242,000	22,000	D	36,000	13,000	D	163,000	5,000
Industrial engineer	62,000	8,000	D	4,000	2,000	D	47,000	*
Mechanical engineer	274,000	24,000	D	24,000	7,000	D	214,000	5,000
Other engineer	323,000	36,000	S	29,000	10,000	2,000	241,000	5,000
Postsecondary teacher	7,000	D	D	2,000	D	D	4,000	D
S&E-related occupations	5,031,000	498,000	12,000	646,000	378,000	27,000	3,372,000	98,000
Health-related occupation	3,160,000	332,000	5,000	433,000	274,000	S	2,024,000	70,000
S&E manager, including health	553,000	48,000	D	60,000	14,000	S	418,000	10,000
S&E pre-college teacher	377,000	23,000	S	12,000	32,000	*	299,000	4,000
S&E technician/technologist	784,000	82,000	1,000	121,000	55,000	1,000	512,000	12,000
Other S&E-related occupation	157,000	13,000	D	21,000	S	D	119,000	S
Non-S&E occupations	7,358,000	888,000	17,000	706,000	568,000	13,000	4,977,000	189,000
Arts, humanities, and related occupation	171,000	14,000	D	14,000	12,000	D	124,000	S
Management-related occupation	1,819,000	225,000	2,000	200,000	113,000	S	1,225,000	50,000
Non-S&E manager	1,122,000	97,000	S	114,000	46,000	S	840,000	19,000
Non-S&E postsecondary teacher	24,000	5,000	D	S	S	D	13,000	D
Non-S&E precollege teacher	353,000	58,000	S	20,000	28,000	S	238,000	7,000

Table 1-3

## Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2021

(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
Sales and marketing occupation	976,000	109,000	1,000	98,000	47,000	D	701,000	20,000
Social service and related occupation	400,000	70,000	S	19,000	72,000	D	227,000	9,000
Other non-S&E occupation	2,492,000	310,000	7,000	239,000	246,000	4,000	1,609,000	77,000
Master's	9,187,000	781,000	18,000	1,479,000	800,000	20,000	5,886,000	203,000
S&E occupations	2,411,000	183,000	1,000	706,000	130,000	5,000	1,344,000	41,000
Science occupations	1,827,000	141,000	1,000	563,000	109,000	4,000	977,000	32,000
Biological, agricultural, and other life scientist	188,000	14,000	D	34,000	7,000	D	123,000	S
Agricultural or food scientist	23,000	2,000	D	2,000	D	D	17,000	S
Biological and medical scientist	133,000	9,000	D	29,000	7,000	D	86,000	2,000
Environmental life scientist	16,000	S	D	D	D	D	7,000	S
Postsecondary teacher	16,000	1,000	D	3,000	D	D	12,000	D
Computer and information scientist	1,088,000	78,000	D	460,000	51,000	S	483,000	14,000
Computer and information scientist	1,072,000	76,000	D	454,000	50,000	S	476,000	14,000
Postsecondary teacher	15,000	S	D	6,000	D	D	7,000	D
Mathematical scientist	164,000	6,000	D	32,000	S	D	101,000	2,000
Mathematical scientist	133,000	5,000	D	25,000	S	D	81,000	1,000
Postsecondary teacher	31,000	2,000	D	7,000	1,000	D	20,000	S
Physical scientist	105,000	10,000	D	16,000	5,000	D	71,000	2,000
Chemist, except biochemist	19,000	1,000	D	4,000	1,000	D	13,000	D
Earth, atmospheric, and ocean scientist	32,000	2,000	D	3,000	1,000	D	25,000	1,000
Physicist	10,000	S	D	3,000	D	D	3,000	D
Other physical and related scientist, including astronomer	25,000	2,000	D	2,000	1,000	D	20,000	*
Postsecondary teacher	19,000	3,000	D	S	D	D	11,000	D
Psychologist	110,000	15,000	D	5,000	6,000	D	81,000	2,000
Psychologist	96,000	15,000	D	3,000	5,000	D	71,000	1,000
Postsecondary teacher	14,000	D	D	S	D	D	11,000	S
Social scientist	173,000	17,000	D	16,000	18,000	S	118,000	3,000
Economist	23,000	2,000	D	3,000	1,000	D	17,000	S
Political scientist	21,000	S	D	1,000	D	D	14,000	S
Anthropologist	7,000	1,000	D	D	D	D	6,000	D
Other social scientist, including sociologist	81,000	6,000	D	8,000	10,000	D	55,000	1,000
Postsecondary teacher	41,000	S	D	4,000	4,000	D	26,000	D
Engineering occupations	584,000	42,000	*	143,000	21,000	S	367,000	9,000
Aerospace, aeronautical, or astronautical engineer	53,000	4,000	D	6,000	1,000	D	40,000	1,000

Table 1-3

## Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2021

(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
Chemical engineer	18,000	*	D	5,000	1,000	D	12,000	D
Civil, architectural, or sanitary engineer	98,000	10,000	D	19,000	3,000	D	64,000	1,000
Electrical or computer hardware engineer	124,000	7,000	D	53,000	7,000	D	56,000	1,000
Industrial engineer	33,000	3,000	D	8,000	S	D	21,000	S
Mechanical engineer	99,000	7,000	D	22,000	2,000	D	67,000	2,000
Other engineer	146,000	10,000	D	26,000	6,000	D	101,000	3,000
Postsecondary teacher	13,000	D	D	4,000	D	D	7,000	*
S&E-related occupations	2,578,000	181,000	4,000	314,000	242,000	6,000	1,775,000	56,000
Health-related occupation	1,313,000	94,000	2,000	126,000	147,000	S	903,000	36,000
S&E manager, including health	417,000	32,000	D	83,000	29,000	D	264,000	7,000
S&E pre-college teacher	504,000	27,000	*	13,000	43,000	D	410,000	9,000
S&E technician/technologist	257,000	19,000	D	79,000	21,000	D	135,000	2,000
Other S&E-related occupation	88,000	9,000	D	12,000	S	D	63,000	S
Non-S&E occupations	4,198,000	416,000	13,000	460,000	428,000	S	2,767,000	106,000
Arts, humanities, and related occupation	118,000	13,000	D	20,000	4,000	D	76,000	5,000
Management-related occupation	1,102,000	106,000	S	157,000	120,000	D	688,000	24,000
Non-S&E manager	860,000	71,000	2,000	117,000	66,000	D	580,000	20,000
Non-S&E postsecondary teacher	55,000	5,000	D	3,000	4,000	D	40,000	3,000
Non-S&E precollege teacher	485,000	46,000	D	22,000	56,000	D	353,000	6,000
Sales and marketing occupation	296,000	22,000	D	43,000	19,000	D	201,000	11,000
Social service and related occupation	651,000	86,000	S	21,000	87,000	1,000	430,000	23,000
Other non-S&E occupation	631,000	66,000	S	77,000	74,000	S	399,000	13,000
Doctorate	1,827,000	128,000	5,000	426,000	95,000	*	1,148,000	25,000
S&E occupations	962,000	59,000	1,000	259,000	28,000	D	603,000	13,000
Science occupations	822,000	48,000	1,000	210,000	26,000	D	525,000	11,000
Biological, agricultural, and other life scientist	291,000	20,000	D	89,000	9,000	D	168,000	S
Agricultural or food scientist	17,000	2,000	D	3,000	D	D	11,000	D
Biological and medical scientist	206,000	13,000	D	78,000	6,000	D	105,000	S
Environmental life scientist	S	D	D	D	D	D	S	D
Postsecondary teacher	65,000	5,000	D	8,000	2,000	D	49,000	D
Computer and information scientist	112,000	3,000	D	52,000	2,000	D	55,000	1,000
Computer and information scientist	96,000	2,000	D	45,000	1,000	D	47,000	1,000

Table 1-3

## Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2021

(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
Postsecondary teacher	16,000	*	D	7,000	S	D	8,000	D
Mathematical scientist	72,000	4,000	D	24,000	2,000	D	41,000	1,000
Mathematical scientist	35,000	S	D	14,000	1,000	D	18,000	*
Postsecondary teacher	37,000	2,000	D	10,000	1,000	D	23,000	1,000
Physical scientist	125,000	5,000	D	28,000	3,000	D	87,000	1,000
Chemist, except biochemist	30,000	1,000	D	11,000	S	D	17,000	D
Earth, atmospheric, and ocean scientist	17,000	*	D	4,000	D	D	12,000	D
Physicist	20,000	D	D	5,000	D	D	15,000	D
Other physical and related scientist, including astronomer	10,000	1,000	D	2,000	D	D	7,000	D
Postsecondary teacher	47,000	3,000	D	6,000	1,000	D	36,000	*
Psychologist	102,000	7,000	*	6,000	4,000	D	81,000	3,000
Psychologist	75,000	6,000	D	3,000	4,000	D	61,000	1,000
Postsecondary teacher	27,000	2,000	D	3,000	1,000	D	21,000	2,000
Social scientist	119,000	8,000	D	11,000	7,000	D	92,000	1,000
Economist	15,000	1,000	D	2,000	*	D	12,000	D
Political scientist	2,000	D	D	D	D	D	1,000	D
Anthropologist	3,000	D	D	D	D	D	2,000	D
Other social scientist, including sociologist	17,000	S	D	2,000	D	D	14,000	D
Postsecondary teacher	83,000	6,000	D	6,000	6,000	D	64,000	S
Engineering occupations	141,000	11,000	D	49,000	2,000	D	77,000	2,000
Aerospace, aeronautical, or astronautical engineer	9,000	D	D	1,000	D	D	7,000	D
Chemical engineer	8,000	D	D	4,000	D	D	4,000	D
Civil, architectural, or sanitary engineer	10,000	1,000	D	3,000	D	D	7,000	D
Electrical or computer hardware engineer	32,000	3,000	D	16,000	D	D	13,000	D
Industrial engineer	1,000	D	D	1,000	D	D	D	D
Mechanical engineer	14,000	*	D	6,000	D	D	7,000	D
Other engineer	32,000	4,000	D	9,000	*	D	18,000	D
Postsecondary teacher	34,000	2,000	D	9,000	1,000	D	22,000	D
S&E-related occupations	374,000	23,000	D	84,000	24,000	D	237,000	4,000
Health-related occupation	237,000	17,000	D	46,000	18,000	D	154,000	2,000
S&E manager, including health	63,000	4,000	D	12,000	3,000	D	44,000	D
S&E pre-college teacher	25,000	1,000	D	3,000	S	D	19,000	D
S&E technician/technologist	46,000	1,000	D	22,000	2,000	D	19,000	S
Other S&E-related occupation	2,000	D	D	1,000	D	D	*	D
Non-S&E occupations	491,000	46,000	S	84,000	43,000	D	308,000	9,000
Arts, humanities, and related occupation	19,000	*	D	2,000	D	D	S	D

**Table 1-3****Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2021**

(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
Management-related occupation	92,000	5,000	D	15,000	8,000	D	63,000	1,000
Non-S&E manager	164,000	14,000	D	32,000	17,000	D	99,000	2,000
Non-S&E postsecondary teacher	94,000	8,000	D	16,000	9,000	D	61,000	1,000
Non-S&E precollege teacher	12,000	D	D	S	*	D	9,000	D
Sales and marketing occupation	17,000	S	D	4,000	D	D	11,000	D
Social service and related occupation	22,000	D	D	2,000	5,000	D	12,000	D
Other non-S&E occupation	71,000	15,000	D	13,000	4,000	D	35,000	S

\* = suppressed when population estimate < 500. D = suppressed to avoid disclosure of confidential information. 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; race categories exclude Hispanic origin.

<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 Center for Science and Engineering Statistics, National Survey of College Graduates, 2021.