Table 9-6
Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2019
(Number)

			Not Hispanic or Latino						
Highest degree and occupation	All ethnicities and races	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	
All degrees ^b	28,627,000	2,646,000	89,000	3,869,000	2,065,000	82,000	19,225,000	650,000	
S&E occupations	7,466,000	564,000	S	1,543,000	379,000	17,000	4,784,000	158,000	
Science occupations	5,545,000	405,000	S	1,212,000	302,000	9,000	3,479,000	121,000	
Biological, agricultural, and other life scientist	698,000	64,000	1,000	157,000	23,000	D	439,000	14,000	
Agricultural/ food scientist	58,000	10,000	D	9,000	2,000	D	36,000	С	
Biological and medical scientist	500,000	40,000	S	130,000	18,000	D	300,000	12,000	
Environmental life scientist	39,000	S	D	S	D	D	29,000	S	
Postsecondary teacher	101,000	7,000	D	18,000	2,000	D	74,000	5	
Computer and information scientist	3,409,000	214,000	S	885,000	189,000	6,000	2,017,000	84,000	
Computer/ information scientist	3,379,000	210,000	S	877,000	188,000	6,000	2,000,000	83,000	
Postsecondary teacher	30,000	4,000	D	8,000	1,000	D	17,000	1,000	
Mathematical scientist	365,000	24,000	D	70,000	S	D	242,000	4,000	
Mathematical scientist	284,000	20,000	D	55,000	S	D	183,000	3,000	
Postsecondary teacher	81,000	3,000	D	15,000	2,000	D	59,000	1,000	
Physical scientist	409,000	27,000	1,000	55,000	18,000	S	300,000	7,000	
Chemist, except biochemist	132,000	9,000	D	19,000	7,000	*	95,000	S	
Earth, atmospheric, and ocean scientist	85,000	3,000	D	5,000	*	D	74,000	1,000	
Physicist	45,000	2,000	D	11,000	D	D	29,000		
Other physical and related scientist, including astronomer	67,000	7,000	D	5,000	6,000	D	47,000	5	
Postsecondary teacher	80,000	6,000	D	16,000	3,000	D	54,000		
Psychologist	276,000	24,000	*	10,000	14,000	D	222,000	5,000	
Psychologist	228,000	21,000	*	7,000	13,000	D	183,000	3,000	
Postsecondary teacher	48,000	3,000	D	3,000	1,000	D	39,000	2,000	
Social scientist	387,000	52,000	S	34,000	33,000	S	259,000	7,000	
Economist	56,000	5,000	D	8,000	2,000	D	40,000	,	
Political scientist	22,000	1,000	D	S	S	D	18,000		
Anthropologist	16,000	1,000	D	D	D	D	12,000	S	
Other social scientist, including sociologist	142,000	33,000	D	11,000	12,000	D	81,000	4,000	
Postsecondary teacher	151,000	12,000	D	14,000	16,000	D	106,000	2,000	
Engineering occupations	1,921,000	159,000	5,000	331,000	77,000	7,000	1,305,000	37,000	
Aerospace, aeronautical, or astronautical engineer	126,000	13,000	D	17,000	3,000	D	88,000	2,000	
Chemical engineer	84,000	4,000	D	14,000	5,000	D	60,000	S	
Civil, architectural, or sanitary engineer	294,000	30,000	D	40,000	12,000	D	208,000	3,000	
Electrical or computer hardware engineer	412,000	30,000	D	110,000	22,000	S	237,000	7,000	
Industrial engineer	95,000	13,000	D	11,000	5,000	D	64,000	1,000	

Table 9-6
Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2019
(Number)

			Not Hispanic or Latino								
Highest degree and occupation	All ethnicities and races	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than			
Mechanical engineer	377,000	28,000	D	60,000	8,000	D	273,000	6,000			
Other engineer	472,000	37,000	S	60,000	17,000	D	340,000	15,000			
Postsecondary teacher	61,000	3,000	D	18,000	S	D	34,000	1,000			
S&E-related occupations	8,893,000	821,000	29,000	1,151,000	613,000	30,000	6,053,000	198,000			
Health-related occupation	5,728,000	491,000	23,000	754,000	399,000	25,000	3,895,000	139,000			
S&E manager, including health	999,000	99,000	S	135,000	70,000	D	679,000	14,000			
S&E pre-college teacher	925,000	95,000	1,000	34,000	54,000	1,000	719,000	21,00			
S&E technician/ technologist	973,000	115,000	3,000	189,000	84,000	S	560,000	20,000			
Other S&E-related occupation	270,000	21,000	D	38,000	5,000	D	200,000	4,000			
Non-S&E occupations ^c	12,267,000	1,261,000	39,000	1,176,000	1,074,000	35,000	8,388,000	295,000			
Arts, humanities, and related occupation	305,000	21,000	D	24,000	11,000	D	236,000	11,000			
Management-related occupation	2,534,000	234,000	S	299,000	234,000	14,000	1,696,000	49,000			
Non-S&E manager	2,003,000	146,000	7,000	219,000	98,000	1,000	1,488,000	43,00			
Non-S&E postsecondary teacher	191,000	18,000	D	17,000	14,000	D	139,000	2,000			
Non-S&E precollege teacher	924,000	109,000	S	72,000	88,000	S	638,000	11,00			
Sales and marketing occupation	1,444,000	146,000	2,000	144,000	81,000	S	1,032,000	32,00			
Social service and related occupation	1,057,000	134,000	8,000	54,000	159,000	D	666,000	35,00			
Other non-S&E occupation	3,810,000	453,000	9,000	347,000	389,000	8,000	2,493,000	110,00			
Bachelor's	16,042,000	1,668,000	53,000	1,829,000	1,153,000	64,000	10,888,000	388,00			
S&E occupations	4,176,000	372,000	S	636,000	219,000	11,000	2,810,000	109,00			
Science occupation	3,017,000	262,000	S	502,000	170,000	6,000	1,979,000	83,00			
Biological/ life scientist	277,000	36,000	1,000	34,000	10,000	D	187,000	8,00			
Agricultural/ food science	29,000	S	D	S	D	D	20,000	ı			
Biological/ scientist	206,000	21,000	S	30,000	9,000	D	137,000	7,00			
Forestry and conservation scientist	28,000	D	D	D	D	D	19,000	I			
Postsecondary teacher	15,000	D	D	S	D	D	11,000	[
Computer and information scientist	2,277,000	170,000	S	427,000	139,000	S	1,454,000	68,00			
Computer/ information scientist	2,271,000	168,000	S	426,000	139,000	S	1,451,000	67,00			
Postsecondary teacher	6,000	D	D	S	D	D	3,000	Ι			
Mathematical scientist	126,000	12,000	D	15,000	5,000	D	93,000	2,00			
Mathematical scientist	115,000	10,000	D	13,000	S	D	86,000	;			
Postsecondary teacher	11,000	1,000	D	S	D	D	7,000	I			
Physical scientist	189,000	15,000	*	19,000	10,000	*	141,000	4,00			
Chemist, except biochemist	71,000	6,000	D	8,000	5,000	*	50,000	;			

Table 9-6
Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2019
(Number)

			ic or Latino					
Highest degree and occupation	All ethnicities and races	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race
Earth scientist/ geologist/ oceanographer	45,000	1,000	D	1,000	D	D	43,000	*
Physicist/ astronomer	10,000	S	D	3,000	D	D	7,000	D
Other physical scientist	41,000	S	D	2,000	S	D	28,000	S
Postsecondary teachers	21,000	1,000	D	5,000	D	D	S	D
Psychologist	50,000	2,000	D	2,000	D	D	45,000	D
Psychologist	39,000	1,000	D	2,000	D	D	36,000	D
Postsecondary teacher	S	D	D	D	D	D	S	D
Social scientist	97,000	27,000	D	5,000	5,000	D	58,000	2,000
Economist	22,000	S	D	S	S	D	19,000	D
Political scientist	3,000	D	D	D	D	D	2,000	D
Sociologist/ anthropologist	3,000	D	D	D	D	D	2,000	D
Other social scientist	59,000	S	D	3,000	2,000	D	29,000	S
Postsecondary teacher	10,000	D	D	1,000	D	D	6,000	D
Engineering occupations	1,158,000	110,000	4,000	134,000	49,000	S	830,000	25,000
Aerospace engineer	68,000	8,000	D	9,000	S	D	45,000	S
Chemical engineer	50,000	3,000	D	4,000	S	D	41,000	S
Civil engineer	191,000	20,000	D	17,000	8,000	D	143,000	2,000
Electrical engineer	226,000	21,000	D	37,000	15,000	D	144,000	5,000
Industrial engineer	62,000	9,000	D	5,000	4,000	D	43,000	S
Mechanical engineer	247,000	20,000	D	26,000	7,000	D	191,000	2,000
Other engineer	308,000	28,000	D	33,000	11,000	D	222,000	13,000
Postsecondary teacher	7,000	D	D	S	D	D	2,000	D
S&E-related occupations	4,794,000	485,000	11,000	534,000	336,000	25,000	3,298,000	105,000
Health occupations	2,978,000	282,000	7,000	346,000	207,000	S	2,047,000	69,000
S&E managers, including health	501,000	47,000	*	53,000	31,000	D	361,000	9,000
S&E pre-college teacher	395,000	46,000	1,000	14,000	27,000	*	295,000	S
S&E technician/ technologist	738,000	96,000	3,000	103,000	68,000	S	450,000	15,000
Other S&E-related occupation	182,000	13,000	D	17,000	S	D	145,000	S
Non-S&E occupations ^C	7,072,000	811,000	23,000	658,000	597,000	28,000	4,780,000	174,000
Arts, humanities, and related occupation	157,000	8,000	D	13,000	10,000	D	123,000	4,000
Management-related occupation	1,531,000	137,000	S	149,000	116,000	14,000	1,075,000	34,000
Non-S&E manager	1,026,000	78,000	3,000	108,000	43,000	S	771,000	23,000
Non-S&E postsecondary teacher	23,000	3,000	D	S	S	D	15,000	D
Non-S&E precollege teacher	371,000	54,000	S	41,000	36,000	D	232,000	6,000
Sales and marketing occupation	1,082,000	115,000	1,000	98,000	58,000	S	778,000	23,000

Table 9-6
Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2019
(Number)

					Not Hispanic or Latino			
Highest degree and occupation	All ethnicities and races	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race
Social service and related occupation	418,000	73,000	S	20,000	57,000	D	251,000	14,000
Other non-S&E occupation	2,464,000	344,000	S	228,000	275,000	4,000	1,535,000	71,000
Master's	8,624,000	661,000	24,000	1,325,000	691,000	14,000	5,724,000	186,000
S&E occupations	2,286,000	136,000	3,000	650,000	115,000	5,000	1,340,000	37,000
Science occupation	1,667,000	94,000	2,000	502,000	91,000	3,000	948,000	28,000
Biological/ life scientist	152,000	14,000	D	31,000	7,000	D	97,000	3,000
Agricultural/ food science	15,000	s	D	3,000	s	D	9,000	D
Biological/ scientist	111,000	10,000	D	24,000	6,000	D	69,000	2,000
Forestry and conservation scientist	8,000	D	D	D	D	D	7,000	D
Postsecondary teacher	19,000	1,000	D	4,000	D	D	13,000	D
Computer and information scientist	1,014,000	40,000	D	409,000	46,000	D	502,000	16,000
Computer/ information scientist	1,001,000	39,000	D	406,000	46,000	D	494,000	15,000
Postsecondary teacher	13,000	D	D	3,000	D	D	8,000	D
Mathematical scientist	154,000	8,000	D	31,000	S	D	100,000	1,000
Mathematical scientist	115,000	7,000	D	27,000	S	D	68,000	1,000
Postsecondary teacher	39,000	1,000	D	5,000	*	D	32,000	D
Physical scientist	97,000	6,000	D	10,000	6,000	D	71,000	2,000
Chemist, except biochemist	32,000	2,000	D	3,000	1,000	D	26,000	D
Earth scientist/ geologist/ oceanographer	25,000	1,000	D	1,000	D	D	22,000	s
Physicist/ astronomer	11,000	*	D	2,000	D	D	6,000	D
Other physical scientist	17,000	S	D	S	S	D	12,000	D
Postsecondary teachers	12,000	2,000	D	2,000	D	D	6,000	D
Psychologist	101,000	11,000	D	3,000	S	D	78,000	2,000
Psychologist	91,000	10,000	D	2,000	S	D	71,000	S
Postsecondary teacher	11,000	S	D	D	D	D	7,000	D
Social scientist	148,000	15,000	D	18,000	11,000	S	99,000	4,000
Economist	18,000	2,000	D	4,000	S	D	11,000	*
Political scientist	15,000	1,000	D	S	D	D	13,000	D
Sociologist/ anthropologist	5,000	*	D	D	D	D	3,000	D
Other social scientist	60,000	8,000	D	6,000	7,000	D	37,000	S
Postsecondary teacher	50,000	3,000	D	8,000	S	D	35,000	S
Engineering occupations	619,000	42,000	S	148,000	25,000	2,000	392,000	10,000
Aerospace engineer	51,000	4,000	D	7,000	S	D	37,000	S
Chemical engineer	20,000	1,000	D	3,000	S	D	14,000	D
Civil engineer	94,000	9,000	D	22,000	3,000	D	58,000	1,000
Electrical engineer	153,000	8,000	D	59,000	7,000	D	77,000	1,000
Industrial engineer	32,000	4,000	D	5,000	S	D	21,000	1,000

Table 9-6
Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2019
(Number)

			Not Hispanic or Latino						
Highest degree and occupation	All ethnicities and races	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than	
Mechanical engineer	114,000	7,000	D	28,000	1,000	D	74,000	3,000	
Other engineer	139,000	9,000	D	19,000	5,000	D	103,000	2,000	
Postsecondary teacher	16,000	D	D	5,000	D	D	8,000		
S&E-related occupations	2,332,000	175,000	S	278,000	176,000	2,000	1,641,000	52,000	
Health occupations	1,213,000	70,000	S	113,000	112,000	S	871,000	39,000	
S&E managers, including health	347,000	37,000	S	62,000	23,000	D	220,000	3,000	
S&E pre-college teacher	493,000	46,000	*	18,000	26,000	D	399,000	4,000	
S&E technician/ technologist	193,000	13,000	D	64,000	14,000	D	97,000	5,000	
Other S&E-related occupation	86,000	8,000	D	20,000	2,000	D	54,000	5	
Non-S&E occupations ^c	4,005,000	351,000	12,000	397,000	400,000	6,000	2,743,000	96,000	
Arts, humanities, and related occupation	123,000	11,000	D	9,000	1,000	D	94,000	8,000	
Management-related occupation	907,000	90,000	2,000	129,000	111,000	S	561,000	13,000	
Non-S&E manager	778,000	58,000	4,000	89,000	44,000	D	567,000	15,000	
Non-S&E postsecondary teacher	61,000	8,000	D	5,000	5,000	D	43,000	1,000	
Non-S&E precollege teacher	534,000	49,000	S	31,000	50,000	D	395,000	6,000	
Sales and marketing occupation	320,000	24,000	D	41,000	20,000	D	226,000	9,000	
Social service and related occupation	582,000	56,000	S	27,000	87,000	D	386,000	21,000	
Other non-S&E occupation	701,000	56,000	*	66,000	81,000	S	471,000	22,000	
Doctorate	1,761,000	115,000	3,000	399,000	110,000	S	1,104,000	29,000	
S&E occupations	938,000	49,000	1,000	243,000	40,000	D	596,000	10,000	
Science occupation	799,000	43,000	1,000	194,000	37,000	D	517,000	8,000	
Biological/ life scientist	254,000	12,000	D	86,000	5,000	D	149,000	2,000	
Agricultural/ food science	13,000	D	D	S	S	D	7,000	С	
Biological/ scientist	174,000	7,000	D	69,000	3,000	D	92,000	2,000	
Forestry and conservation scientist	3,000	D	D	D	D	D	3,000	С	
Postsecondary teacher	64,000	4,000	D	11,000	2,000	D	47,000		
Computer and information scientist	107,000	3,000	D	45,000	3,000	D	55,000	2	
Computer/ information scientist	95,000	3,000	D	41,000	2,000	D	49,000	С	
Postsecondary teacher	11,000	S	D	4,000	D	D	6,000	С	
Mathematical scientist	82,000	S	D	23,000	S	D	50,000	5	
Mathematical scientist	51,000	S	D	15,000	S	D	29,000	Г	
Postsecondary teacher	31,000	D	D	8,000	S	D	20,000		
Physical scientist	121,000	6,000	D	26,000	2,000	D	86,000	1,000	
Chemist, except biochemist	29,000	1,000	D	8,000	1,000	D	19,000	С	

Table 9-6
Employed scientists and engineers, by highest degree level, occupation, ethnicity, and race: 2019
(Number)

			Not Hispanic or Latino							
Highest degree and occupation	All ethnicities and races	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race		
Earth scientist/										
geologist/ oceanographer	13,000	S	D	3,000	D	D	9,000	D		
Physicist/ astronomer	24,000	S	D	6,000	D	D	17,000	D		
Other physical scientist	9,000	D	D	1,000	D	D	7,000	D		
Postsecondary teachers	46,000	2,000	D	9,000	1,000	D	34,000	D		
Psychologist	100,000	8,000	*	3,000	6,000	D	80,000	2,000		
Psychologist	75,000	7,000	*	2,000	5,000	D	60,000	D		
Postsecondary teacher	25,000	1,000	D	S	1,000	D	20,000	S		
Social scientist	135,000	9,000	D	10,000	16,000	D	97,000	2,000		
Economist	16,000	2,000	D	3,000	*	D	11,000	D		
Political scientist	4,000	D	D	D	D	D	S	D		
Sociologist/ anthropologist	7,000	D	D	D	D	D	7,000	D		
Other social scientist	21,000	2,000	D	2,000	D	D	14,000	D		
Postsecondary teacher	87,000	6,000	D	5,000	12,000	D	64,000	S		
Engineering occupations	139,000	6,000	D	49,000	3,000	D	79,000	2,000		
Aerospace engineer	8,000	D	D	2,000	D	D	6,000	D		
Chemical engineer	13,000	D	D	7,000	D	D	6,000	D		
Civil engineer	9,000	1,000	D	1,000	D	D	7,000	D		
Electrical engineer	32,000	1,000	D	15,000	D	D	16,000	D		
Industrial engineer	S	D	D	*	D	D	D	D		
Mechanical engineer	13,000	*	D	6,000	D	D	6,000	D		
Other engineer	24,000	1,000	D	8,000	D	D	14,000	D		
Postsecondary teacher	38,000	2,000	D	11,000	1,000	D	24,000	D		
S&E-related occupations	387,000	35,000	D	89,000	S	D	216,000	12,000		
Health occupations	259,000	23,000	D	52,000	S	D	146,000	3,000		
S&E managers, including health	61,000	5,000	D	13,000	D	D	41,000	2,000		
S&E pre-college teacher	27,000	2,000	D	2,000	*	D	16,000	D		
S&E technician/ technologist	39,000	5,000	D	21,000	S	D	13,000	D		
Other S&E-related occupation	1,000	D	D	S	D	D	D	D		
Non-S&E occupations ^c	436,000	31,000	D	67,000	36,000	D	292,000	8,000		
Arts, humanities, and related occupation	14,000	D	D	2,000	D	D	11,000	D		
Management-related occupation	69,000	3,000	D	16,000	5,000	D	45,000	1,000		
Non-S&E manager	137,000	8,000	D	18,000	10,000	D	100,000	1,000		
Non-S&E postsecondary teacher	91,000	7,000	D	11,000	6,000	D	66,000	S		
Non-S&E precollege teacher	10,000	S	D	D	D	D	7,000	D		
Sales and marketing occupation	12,000	S	D	3,000	D	D	7,000	D		

Table 9-6

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

(Number)

			Not Hispanic or Latino						
Highest degree and occupation	All ethnicities and races	Hispanic or Latino ^a	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race	
Social service and related occupation	37,000	5,000	D	2,000	10,000	D	18,000	D	
Other non-S&E occupation	66,000	4,000	D	16,000	5,000	D	38,000	D	

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

S&E = science and engineering.

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.

^a Hispanic or Latino may be any race; race categories exclude Hispanic origin.

^b All degrees includes professional degrees, which are not shown separately.

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