

TABLE 1-1

**College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2019**

(Number)

Level and field of highest degree	Total	Employed			Unemployed <sup>a</sup>	Not in labor force <sup>b</sup>	
		Total	S&E occupations	S&E-related occupations			Non-S&E occupations
All degrees	64,696,000	50,524,000	7,466,000	8,893,000	34,165,000	1,633,000	12,538,000
S&E fields	19,662,000	15,362,000	5,709,000	2,131,000	7,522,000	534,000	3,766,000
Biological, agricultural, and environmental life sciences	3,186,000	2,437,000	705,000	660,000	1,072,000	75,000	675,000
Agricultural and food sciences	361,000	266,000	59,000	27,000	180,000	5,000	90,000
Biological sciences	2,453,000	1,867,000	565,000	588,000	714,000	64,000	523,000
Environmental life sciences	372,000	303,000	80,000	45,000	177,000	6,000	63,000
Computer and mathematical sciences	3,498,000	2,837,000	1,670,000	366,000	801,000	121,000	540,000
Computer and information sciences	2,606,000	2,203,000	1,427,000	239,000	537,000	91,000	312,000
Mathematics and statistics	892,000	634,000	243,000	127,000	265,000	29,000	229,000
Physical and related sciences	1,125,000	889,000	422,000	176,000	291,000	36,000	200,000
Chemistry, except biochemistry	508,000	400,000	179,000	100,000	120,000	24,000	84,000
Earth, atmospheric, and ocean sciences	307,000	249,000	108,000	36,000	105,000	6,000	52,000
Physics and astronomy	280,000	220,000	131,000	35,000	54,000	6,000	54,000
Other physical sciences	31,000	20,000	4,000	5,000	11,000	D	S
Social and related sciences	7,349,000	5,474,000	754,000	367,000	4,352,000	208,000	1,667,000
Economics	1,121,000	856,000	130,000	24,000	702,000	23,000	242,000
Political and related sciences	1,284,000	971,000	107,000	52,000	812,000	55,000	257,000
Psychology	2,995,000	2,221,000	341,000	180,000	1,700,000	81,000	693,000
Sociology and anthropology	1,169,000	829,000	102,000	57,000	669,000	33,000	308,000
Other social sciences	781,000	598,000	74,000	55,000	468,000	16,000	167,000
Engineering	4,503,000	3,725,000	2,159,000	562,000	1,004,000	95,000	683,000
Aerospace, aeronautical, and astronautical engineering	180,000	142,000	81,000	13,000	48,000	S	31,000
Chemical engineering	294,000	246,000	138,000	35,000	72,000	5,000	43,000
Civil and architectural engineering	642,000	544,000	284,000	89,000	172,000	13,000	86,000
Electrical and computer engineering	1,570,000	1,289,000	849,000	204,000	236,000	36,000	245,000
Industrial engineering	279,000	214,000	86,000	35,000	93,000	4,000	62,000
Mechanical engineering	877,000	739,000	452,000	99,000	188,000	19,000	120,000
Other engineering	661,000	552,000	269,000	88,000	195,000	12,000	97,000
S&E-related fields	9,145,000	7,429,000	428,000	5,309,000	1,692,000	151,000	1,564,000
Health	7,267,000	5,979,000	164,000	4,731,000	1,084,000	107,000	1,181,000
Science and mathematics teacher education	662,000	469,000	29,000	239,000	201,000	S	186,000
Technology and technical fields	616,000	479,000	186,000	115,000	179,000	23,000	114,000
Other S&E-related fields	600,000	501,000	49,000	224,000	228,000	14,000	85,000
Non-S&E fields	35,889,000	27,734,000	1,330,000	1,453,000	24,951,000	948,000	7,207,000
Management and administration fields	12,031,000	9,499,000	666,000	442,000	8,391,000	344,000	2,188,000
Education, except science and math teacher education	7,462,000	5,285,000	76,000	444,000	4,764,000	86,000	2,092,000
Social service and related fields	1,872,000	1,413,000	77,000	53,000	1,283,000	57,000	402,000
Sales and marketing fields	1,575,000	1,299,000	53,000	S	1,213,000	41,000	236,000
Art and humanities fields	5,803,000	4,487,000	224,000	237,000	4,026,000	132,000	1,184,000
Other non-S&E fields	7,146,000	5,750,000	233,000	245,000	5,272,000	288,000	1,107,000

TABLE 1-1

**College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2019**

(Number)

Level and field of highest degree	Total	Employed			Unemployed <sup>a</sup>	Not in labor force <sup>b</sup>	
		Total	S&E occupations	S&E-related occupations			Non-S&E occupations
Bachelor's	41,035,000	31,373,000	4,176,000	4,794,000	22,403,000	1,217,000	8,445,000
S&E fields	13,972,000	10,731,000	3,251,000	1,504,000	5,976,000	422,000	2,819,000
Biological, agricultural, and environmental life sciences	2,248,000	1,688,000	344,000	486,000	858,000	62,000	497,000
Agricultural and food sciences	280,000	207,000	31,000	21,000	155,000	4,000	69,000
Biological sciences	1,696,000	1,254,000	266,000	430,000	557,000	53,000	389,000
Environmental life sciences	273,000	228,000	47,000	35,000	146,000	S	39,000
Computer and mathematical sciences	2,360,000	1,896,000	1,032,000	250,000	614,000	96,000	369,000
Computer and information sciences	1,740,000	1,478,000	915,000	156,000	407,000	70,000	192,000
Mathematics and statistics	620,000	418,000	117,000	94,000	207,000	26,000	177,000
Physical and related sciences	682,000	520,000	194,000	117,000	209,000	25,000	136,000
Chemistry, except biochemistry	331,000	257,000	91,000	79,000	87,000	20,000	54,000
Earth, atmospheric, and ocean sciences	205,000	163,000	59,000	19,000	84,000	S	39,000
Physics and astronomy	122,000	85,000	40,000	17,000	28,000	S	34,000
Other physical sciences	25,000	16,000	S	S	11,000	D	S
Social and related sciences	5,590,000	4,097,000	327,000	269,000	3,501,000	173,000	1,320,000
Economics	939,000	709,000	79,000	20,000	610,000	20,000	210,000
Political and related sciences	1,006,000	760,000	48,000	42,000	671,000	38,000	208,000
Psychology	2,084,000	1,509,000	116,000	117,000	1,276,000	69,000	506,000
Sociology and anthropology	1,014,000	711,000	45,000	48,000	619,000	31,000	272,000
Other social sciences	546,000	407,000	39,000	42,000	326,000	14,000	124,000
Engineering	3,093,000	2,530,000	1,355,000	382,000	793,000	65,000	497,000
Aerospace, aeronautical, and astronautical engineering	114,000	88,000	47,000	8,000	34,000	S	19,000
Chemical engineering	225,000	186,000	98,000	26,000	61,000	S	35,000
Civil and architectural engineering	469,000	397,000	182,000	68,000	146,000	11,000	62,000
Electrical and computer engineering	1,045,000	840,000	523,000	137,000	179,000	24,000	182,000
Industrial engineering	192,000	141,000	54,000	19,000	68,000	S	48,000
Mechanical engineering	673,000	563,000	325,000	75,000	164,000	13,000	97,000
Other engineering	375,000	316,000	125,000	50,000	141,000	6,000	54,000
S&E-related fields	4,837,000	3,771,000	193,000	2,535,000	1,043,000	96,000	970,000
Health	3,628,000	2,844,000	36,000	2,178,000	630,000	61,000	723,000
Science and mathematics teacher education	296,000	206,000	4,000	105,000	97,000	S	87,000
Technology and technical fields	507,000	388,000	132,000	97,000	160,000	20,000	99,000
Other S&E-related fields	406,000	332,000	21,000	155,000	156,000	S	62,000
Non-S&E fields	22,226,000	16,871,000	732,000	756,000	15,384,000	699,000	4,655,000
Management and administration fields	8,129,000	6,264,000	344,000	237,000	5,683,000	233,000	1,632,000
Education, except science and math teacher education	3,130,000	2,063,000	28,000	118,000	1,917,000	39,000	1,028,000
Social service and related fields	815,000	554,000	22,000	15,000	517,000	44,000	217,000
Sales and marketing fields	1,275,000	1,057,000	37,000	S	992,000	38,000	180,000

TABLE 1-1

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(Number)

Level and field of highest degree	Total	Employed			Unemployed <sup>a</sup>	Not in labor force <sup>b</sup>	
		Total	S&E occupations	S&E-related occupations			Non-S&E occupations
Art and humanities fields	4,617,000	3,581,000	189,000	185,000	3,208,000	108,000	928,000
Other non-S&E fields	4,261,000	3,352,000	112,000	171,000	3,068,000	237,000	671,000
Master's	17,801,000	14,158,000	2,286,000	2,332,000	9,540,000	331,000	3,312,000
S&E fields	4,145,000	3,350,000	1,589,000	479,000	1,281,000	89,000	706,000
Biological, agricultural, and environmental life sciences	511,000	388,000	132,000	105,000	151,000	8,000	115,000
Agricultural and food sciences	53,000	40,000	13,000	4,000	22,000	D	12,000
Biological sciences	368,000	280,000	90,000	92,000	99,000	7,000	81,000
Environmental life sciences	90,000	68,000	28,000	9,000	30,000	D	22,000
Computer and mathematical sciences	1,005,000	829,000	543,000	111,000	174,000	24,000	152,000
Computer and information sciences	800,000	668,000	463,000	82,000	124,000	21,000	110,000
Mathematics and statistics	205,000	161,000	81,000	30,000	50,000	S	42,000
Physical and related sciences	200,000	170,000	88,000	32,000	51,000	2,000	28,000
Chemistry, except biochemistry	66,000	51,000	26,000	9,000	16,000	S	14,000
Earth, atmospheric, and ocean sciences	67,000	60,000	28,000	14,000	18,000	S	6,000
Physics and astronomy	64,000	56,000	33,000	7,000	17,000	D	6,000
Other physical sciences	3,000	3,000	1,000	S	D	D	D
Social and related sciences	1,294,000	1,001,000	194,000	76,000	731,000	30,000	262,000
Economics	131,000	106,000	26,000	3,000	77,000	2,000	23,000
Political and related sciences	224,000	171,000	34,000	8,000	129,000	17,000	36,000
Psychology	659,000	507,000	92,000	46,000	369,000	S	142,000
Sociology and anthropology	94,000	67,000	19,000	7,000	41,000	S	26,000
Other social sciences	186,000	150,000	23,000	12,000	115,000	S	34,000
Engineering	1,135,000	961,000	632,000	155,000	174,000	25,000	149,000
Aerospace, aeronautical, and astronautical engineering	57,000	44,000	27,000	3,000	S	S	12,000
Chemical engineering	34,000	30,000	17,000	7,000	5,000	D	4,000
Civil and architectural engineering	148,000	126,000	85,000	18,000	23,000	2,000	20,000
Electrical and computer engineering	445,000	381,000	273,000	61,000	47,000	11,000	53,000
Industrial engineering	77,000	62,000	26,000	14,000	23,000	S	13,000
Mechanical engineering	167,000	147,000	104,000	22,000	21,000	6,000	14,000
Other engineering	207,000	171,000	101,000	29,000	41,000	4,000	32,000
S&E-related fields	2,328,000	1,920,000	172,000	1,200,000	548,000	33,000	374,000
Health	1,691,000	1,420,000	76,000	983,000	361,000	25,000	246,000
Science and mathematics teacher education	349,000	252,000	21,000	133,000	98,000	S	92,000
Technology and technical fields	97,000	82,000	49,000	16,000	17,000	S	14,000
Other S&E-related fields	190,000	166,000	27,000	68,000	71,000	2,000	22,000
Non-S&E fields	11,328,000	8,888,000	524,000	653,000	7,711,000	208,000	2,232,000
Management and administration fields	3,834,000	3,178,000	314,000	203,000	2,660,000	107,000	550,000
Education, except science and math teacher education	4,123,000	3,063,000	40,000	307,000	2,715,000	43,000	1,017,000

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(Number)

Level and field of highest degree	Total	Employed				Unemployed <sup>a</sup>	Not in labor force <sup>b</sup>
		Total	S&E occupations	S&E-related occupations	Non-S&E occupations		
Social service and related fields	932,000	769,000	40,000	37,000	692,000	5,000	158,000
Sales and marketing fields	293,000	237,000	16,000	4,000	217,000	S	53,000
Art and humanities fields	1,001,000	739,000	30,000	52,000	658,000	23,000	239,000
Other non-S&E fields	1,145,000	903,000	84,000	51,000	768,000	27,000	215,000
Doctorate	2,522,000	2,090,000	938,000	387,000	765,000	43,000	389,000
S&E fields	1,494,000	1,239,000	841,000	146,000	252,000	22,000	233,000
Biological, agricultural, and environmental life sciences	427,000	360,000	229,000	69,000	62,000	4,000	63,000
Agricultural and food sciences	29,000	20,000	15,000	1,000	3,000	D	S
Biological sciences	390,000	333,000	209,000	66,000	59,000	4,000	53,000
Environmental life sciences	9,000	7,000	5,000	S	S	D	S
Computer and mathematical sciences	132,000	112,000	94,000	5,000	13,000	1,000	19,000
Computer and information sciences	66,000	56,000	50,000	2,000	5,000	D	9,000
Mathematics and statistics	66,000	56,000	45,000	3,000	8,000	S	10,000
Physical and related sciences	244,000	199,000	140,000	28,000	31,000	8,000	37,000
Chemistry, except biochemistry	112,000	92,000	62,000	12,000	18,000	S	16,000
Earth, atmospheric, and ocean sciences	35,000	27,000	20,000	3,000	4,000	S	S
Physics and astronomy	94,000	79,000	58,000	11,000	10,000	S	13,000
Other physical sciences	2,000	2,000	*	D	D	D	S
Social and related sciences	416,000	335,000	207,000	20,000	108,000	4,000	77,000
Economics	51,000	41,000	25,000	*	16,000	D	9,000
Political and related sciences	53,000	39,000	25,000	2,000	12,000	*	13,000
Psychology	202,000	164,000	106,000	15,000	43,000	D	37,000
Sociology and anthropology	60,000	50,000	39,000	2,000	10,000	S	9,000
Other social sciences	49,000	40,000	12,000	1,000	27,000	D	9,000
Engineering	275,000	233,000	171,000	24,000	37,000	5,000	38,000
Aerospace, aeronautical, and astronautical engineering	10,000	9,000	8,000	2,000	D	D	D
Chemical engineering	35,000	30,000	23,000	2,000	6,000	S	4,000
Civil and architectural engineering	25,000	21,000	16,000	2,000	3,000	D	3,000
Electrical and computer engineering	79,000	68,000	53,000	6,000	9,000	S	10,000
Industrial engineering	10,000	10,000	6,000	S	2,000	D	D
Mechanical engineering	37,000	28,000	23,000	1,000	4,000	*	8,000
Other engineering	79,000	66,000	43,000	10,000	14,000	2,000	11,000
S&E-related fields	339,000	305,000	44,000	215,000	46,000	S	31,000
Health	307,000	283,000	33,000	212,000	38,000	S	23,000
Science and mathematics teacher education	17,000	11,000	5,000	1,000	5,000	D	6,000
Technology and technical fields	11,000	9,000	5,000	2,000	S	D	D
Other S&E-related fields	4,000	3,000	1,000	D	1,000	D	S
Non-S&E fields	688,000	546,000	53,000	26,000	468,000	17,000	125,000
Management and administration fields	68,000	58,000	9,000	S	48,000	D	6,000

TABLE 1-1

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(Number)

Level and field of highest degree	Total	Employed			Unemployed <sup>a</sup>	Not in labor force <sup>b</sup>	
		Total	S&E occupations	S&E-related occupations			Non-S&E occupations
Education, except science and math teacher education	210,000	159,000	8,000	19,000	132,000	D	47,000
Social service and related fields	124,000	90,000	15,000	D	75,000	D	26,000
Sales and marketing fields	7,000	4,000	D	D	4,000	D	S
Art and humanities fields	185,000	167,000	5,000	1,000	161,000	D	17,000
Other non-S&E fields	93,000	67,000	16,000	S	47,000	D	26,000
Professional	3,338,000	2,903,000	67,000	1,380,000	1,456,000	43,000	392,000
S&E fields	51,000	42,000	28,000	2,000	12,000	D	8,000
S&E-related fields	1,641,000	1,433,000	18,000	1,359,000	56,000	19,000	189,000
Non-S&E fields	1,647,000	1,428,000	21,000	19,000	1,388,000	24,000	195,000

\* = 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> Unemployed includes individuals who were not working during the survey reference week but had been seeking work in the prior 4 weeks or who were on layoff from their job.

<sup>b</sup> Not in the labor force includes individuals who were not working during the survey reference week and had not been seeking work in the prior 4 weeks because of family responsibilities, chronic illness, or other reasons.

**Note(s):**

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding.

**Source(s):**

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