



National Center for Science and  
Engineering Statistics

# National Survey of College Graduates: 2017

Data Tables | NSF 22-331 | July 14, 2022

## Contents

---

General Notes	2
Data Tables	3
Technical Notes	108
Notes	116
Technical Tables	117
Acknowledgments and Suggested Citation	126
Contact Us	127

---

## General Notes

---

These tables were compiled using data from the 2017 National Survey of College Graduates (NSCG). The NSCG, conducted by the National Center for Science and Engineering Statistics within the National Science Foundation, is a repeated cross-sectional biennial survey that collects information on the nation's college-educated workforce. This survey is a unique source for examining the relationship between degree field and occupation, as well as examining other characteristics of college-educated individuals, including work activities, salary, and demographic information.

## Data Tables

---

### Fields of study of college graduates

Table	Title
1-1	College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2017
1-2	Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2017
1-3	Relationship of highest degree to job among employed college graduates, by level of highest degree, minor field of highest degree, and broad occupation: 2017
1-4	Employed college graduates, by level of highest degree, minor field of highest degree, and detailed employment sector: 2017
1-5	Employed scientists and engineers, by sex, major field of highest degree, ethnicity, race, disability status, and type of disability: 2017

### Occupations of college graduates

Table	Title
2-1	Employed college graduates, by level of highest degree, major occupation, sex, ethnicity, race, and disability status: 2017
2-2	Full-time employed college graduates, by major occupation, age, level of highest degree, and sex: 2017
2-3	Full-time employed college graduates, by sex, major occupation, age, ethnicity, race, disability status, and citizenship status: 2017
2-4	Employed college graduates, by minor occupation and major field of highest degree: 2017
2-5	Employed college graduates, by major occupation, sex, ethnicity, race, disability status, and detailed employment sector: 2017
2-6	Employed college graduates, by level of highest degree, major occupation, possession of a certification or license, and primary field of certification or license: 2017

### Work activities and job satisfaction of employed college graduates

Table	Title
3-1	Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2017

Table	Title
3-2	Employed college graduates, by employment sector, minor occupation, and job satisfaction: 2017
3-3	Employed college graduates, by sex, major occupation, job satisfaction, and primary work activity: 2017
3-4	Employed college graduates, by sex, major occupation, job satisfaction, and years since highest degree: 2017

## Median salaries of full-time employed college graduates

Table	Title
4-1	Median salary of full-time employed college graduates, by major occupation, age, level of highest degree, and sex: 2017
4-2	Median salary of full-time employed college graduates, by sex, major occupation, age, ethnicity, race, disability status, and citizenship status: 2017
4-3	Full-time employed scientists and engineers and their median salary, by major field of highest degree, employment sector, and primary work activity: 2017

## Demographic characteristics of college graduates

Table	Title
5-1	College graduates, by age, sex, ethnicity, race, disability status, and age at onset of disability, broad occupation, labor force status, and median salary: 2017
5-2	College graduates, by broad occupation, labor force status, sex, ethnicity, race, and disability status: 2017
5-3	College graduates, by broad field of highest degree, father's education, mother's education, level of highest degree, and median amount borrowed to finance undergraduate degree: 2017
5-4	Employed college graduates, by nativity, level of highest degree, major occupation, and employment sector: 2017
5-5	Employed foreign-born college graduates, by broad field of highest degree, place of birth, and broad occupation: 2017

TABLE 1-1

**College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2017**

(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	61,220,000	48,223,000	6,769,000	8,271,000	33,183,000	1,513,000	11,483,000
S&E fields	18,339,000	14,501,000	5,085,000	1,997,000	7,418,000	509,000	3,330,000
Biological, agricultural, and environmental life sciences	2,982,000	2,290,000	633,000	635,000	1,022,000	71,000	622,000
Agricultural and food sciences	360,000	286,000	57,000	36,000	192,000	6,000	69,000
Biological sciences	2,326,000	1,763,000	522,000	556,000	684,000	58,000	506,000
Environmental life sciences	296,000	241,000	53,000	42,000	146,000	S	47,000
Computer and mathematical sciences	3,087,000	2,567,000	1,437,000	307,000	823,000	82,000	439,000
Computer and information sciences	2,330,000	2,017,000	1,257,000	205,000	554,000	62,000	251,000
Mathematics and statistics	757,000	550,000	180,000	102,000	269,000	20,000	187,000
Physical and related sciences	1,024,000	814,000	366,000	159,000	289,000	19,000	191,000
Chemistry, except biochemistry	466,000	349,000	156,000	84,000	108,000	8,000	109,000
Earth, atmospheric, and ocean sciences	276,000	234,000	93,000	33,000	108,000	6,000	35,000
Physics and astronomy	250,000	202,000	109,000	31,000	62,000	3,000	44,000
Other physical sciences	34,000	29,000	8,000	10,000	10,000	S	2,000
Social and related sciences	7,021,000	5,336,000	679,000	366,000	4,291,000	211,000	1,474,000
Economics	1,069,000	870,000	115,000	35,000	721,000	26,000	173,000
Political and related sciences	1,259,000	994,000	107,000	51,000	836,000	29,000	235,000
Psychology	2,764,000	2,034,000	306,000	144,000	1,584,000	108,000	622,000
Sociology and anthropology	1,157,000	838,000	95,000	78,000	665,000	34,000	285,000
Other social sciences	772,000	600,000	58,000	57,000	485,000	13,000	159,000
Engineering	4,225,000	3,494,000	1,970,000	531,000	993,000	126,000	605,000
Aerospace, aeronautical, and astronautical engineering	166,000	127,000	58,000	8,000	60,000	6,000	33,000
Chemical engineering	281,000	220,000	129,000	23,000	68,000	10,000	51,000
Civil and architectural engineering	597,000	501,000	250,000	96,000	155,000	11,000	86,000
Electrical and computer engineering	1,508,000	1,264,000	820,000	205,000	239,000	48,000	196,000
Industrial engineering	263,000	214,000	83,000	34,000	97,000	10,000	39,000
Mechanical engineering	829,000	689,000	387,000	98,000	204,000	31,000	110,000
Other engineering	581,000	479,000	243,000	67,000	170,000	11,000	91,000
S&E-related fields	8,383,000	6,870,000	382,000	4,796,000	1,693,000	168,000	1,345,000
Health	6,720,000	5,572,000	146,000	4,297,000	1,129,000	122,000	1,027,000
Science and mathematics teacher education	560,000	394,000	29,000	180,000	185,000	8,000	159,000
Technology and technical fields	577,000	453,000	173,000	93,000	187,000	31,000	93,000
Other S&E-related fields	526,000	452,000	35,000	225,000	192,000	8,000	66,000
Non-S&E fields	34,497,000	26,852,000	1,301,000	1,479,000	24,072,000	836,000	6,809,000
Management and administration fields	11,778,000	9,501,000	573,000	391,000	8,537,000	363,000	1,913,000
Education, except science and math teacher education	7,466,000	5,157,000	98,000	509,000	4,549,000	134,000	2,175,000
Social service and related fields	1,717,000	1,364,000	58,000	73,000	1,232,000	32,000	321,000
Sales and marketing fields	1,514,000	1,324,000	103,000	22,000	1,199,000	26,000	163,000
Art and humanities fields	5,585,000	4,270,000	226,000	236,000	3,807,000	159,000	1,156,000
Other non-S&E fields	6,437,000	5,235,000	242,000	247,000	4,747,000	121,000	1,081,000

TABLE 1-1

**College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2017**

(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	38,866,000	30,131,000	3,846,000	4,338,000	21,946,000	1,088,000	7,647,000
S&E fields	13,077,000	10,241,000	2,918,000	1,410,000	5,913,000	387,000	2,449,000
Biological, agricultural, and environmental life sciences	2,152,000	1,631,000	321,000	474,000	836,000	56,000	466,000
Agricultural and food sciences	284,000	224,000	24,000	27,000	172,000	4,000	56,000
Biological sciences	1,652,000	1,229,000	265,000	413,000	551,000	44,000	378,000
Environmental life sciences	217,000	178,000	31,000	33,000	113,000	S	32,000
Computer and mathematical sciences	2,046,000	1,713,000	879,000	192,000	641,000	54,000	278,000
Computer and information sciences	1,537,000	1,352,000	807,000	121,000	425,000	40,000	145,000
Mathematics and statistics	509,000	361,000	72,000	72,000	217,000	14,000	134,000
Physical and related sciences	606,000	466,000	147,000	98,000	221,000	11,000	129,000
Chemistry, except biochemistry	287,000	206,000	73,000	60,000	74,000	4,000	76,000
Earth, atmospheric, and ocean sciences	174,000	149,000	39,000	13,000	97,000	3,000	22,000
Physics and astronomy	116,000	85,000	29,000	15,000	41,000	S	30,000
Other physical sciences	30,000	26,000	7,000	10,000	10,000	D	S
Social and related sciences	5,348,000	4,044,000	305,000	278,000	3,461,000	178,000	1,126,000
Economics	911,000	751,000	70,000	33,000	649,000	24,000	135,000
Political and related sciences	993,000	780,000	52,000	43,000	684,000	26,000	188,000
Psychology	1,911,000	1,372,000	101,000	101,000	1,171,000	85,000	453,000
Sociology and anthropology	1,004,000	722,000	50,000	69,000	603,000	32,000	250,000
Other social sciences	529,000	419,000	32,000	33,000	354,000	11,000	100,000
Engineering	2,925,000	2,387,000	1,265,000	368,000	754,000	88,000	450,000
Aerospace, aeronautical, and astronautical engineering	108,000	84,000	32,000	6,000	46,000	S	22,000
Chemical engineering	216,000	167,000	95,000	17,000	55,000	8,000	41,000
Civil and architectural engineering	437,000	362,000	169,000	74,000	119,000	7,000	69,000
Electrical and computer engineering	1,000,000	816,000	516,000	132,000	168,000	37,000	147,000
Industrial engineering	173,000	141,000	51,000	21,000	68,000	3,000	28,000
Mechanical engineering	652,000	541,000	284,000	79,000	179,000	25,000	86,000
Other engineering	338,000	276,000	118,000	38,000	119,000	5,000	57,000
S&E-related fields	4,295,000	3,390,000	189,000	2,167,000	1,035,000	94,000	810,000
Health	3,233,000	2,555,000	43,000	1,870,000	642,000	64,000	614,000
Science and mathematics teacher education	252,000	179,000	5,000	76,000	98,000	D	71,000
Technology and technical fields	465,000	360,000	125,000	74,000	161,000	24,000	81,000
Other S&E-related fields	346,000	297,000	16,000	148,000	134,000	5,000	43,000
Non-S&E fields	21,493,000	16,499,000	740,000	761,000	14,998,000	607,000	4,388,000
Management and administration fields	8,152,000	6,509,000	274,000	185,000	6,050,000	277,000	1,365,000
Education, except science and math teacher education	3,386,000	2,223,000	38,000	162,000	2,023,000	61,000	1,102,000
Social service and related fields	712,000	531,000	17,000	39,000	476,000	18,000	162,000
Sales and marketing fields	1,226,000	1,063,000	83,000	11,000	969,000	23,000	140,000

TABLE 1-1

**College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2017**

(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	4,433,000	3,356,000	197,000	192,000	2,967,000	139,000	938,000
Other non-S&E fields	3,584,000	2,816,000	130,000	172,000	2,513,000	88,000	681,000
Master's	16,756,000	13,260,000	2,069,000	2,262,000	8,929,000	348,000	3,149,000
S&E fields	3,905,000	3,138,000	1,442,000	467,000	1,230,000	93,000	674,000
Biological, agricultural, and environmental life sciences	457,000	351,000	123,000	106,000	122,000	7,000	99,000
Agricultural and food sciences	48,000	40,000	21,000	4,000	15,000	S	7,000
Biological sciences	337,000	254,000	83,000	93,000	77,000	5,000	78,000
Environmental life sciences	72,000	57,000	18,000	9,000	30,000	S	14,000
Computer and mathematical sciences	922,000	754,000	482,000	108,000	165,000	25,000	142,000
Computer and information sciences	735,000	613,000	411,000	80,000	121,000	22,000	100,000
Mathematics and statistics	187,000	141,000	70,000	28,000	44,000	4,000	42,000
Physical and related sciences	211,000	179,000	98,000	43,000	38,000	4,000	28,000
Chemistry, except biochemistry	81,000	64,000	32,000	15,000	18,000	2,000	15,000
Earth, atmospheric, and ocean sciences	74,000	63,000	38,000	18,000	8,000	S	9,000
Physics and astronomy	54,000	50,000	27,000	10,000	13,000	D	3,000
Other physical sciences	2,000	2,000	1,000	*	D	D	D
Social and related sciences	1,252,000	954,000	176,000	71,000	707,000	25,000	273,000
Economics	108,000	81,000	20,000	S	59,000	S	26,000
Political and related sciences	227,000	185,000	37,000	8,000	140,000	S	39,000
Psychology	625,000	474,000	87,000	30,000	357,000	17,000	134,000
Sociology and anthropology	100,000	74,000	18,000	8,000	48,000	1,000	24,000
Other social sciences	192,000	140,000	14,000	23,000	102,000	1,000	51,000
Engineering	1,063,000	899,000	563,000	139,000	197,000	31,000	132,000
Aerospace, aeronautical, and astronautical engineering	51,000	37,000	22,000	2,000	13,000	S	11,000
Chemical engineering	40,000	33,000	21,000	5,000	7,000	1,000	5,000
Civil and architectural engineering	140,000	121,000	69,000	19,000	33,000	3,000	16,000
Electrical and computer engineering	435,000	382,000	257,000	64,000	61,000	10,000	43,000
Industrial engineering	80,000	65,000	28,000	11,000	25,000	S	11,000
Mechanical engineering	142,000	117,000	79,000	17,000	21,000	5,000	20,000
Other engineering	175,000	145,000	86,000	21,000	38,000	4,000	26,000
S&E-related fields	2,185,000	1,788,000	131,000	1,126,000	530,000	51,000	347,000
Health	1,617,000	1,349,000	52,000	928,000	370,000	36,000	232,000
Science and mathematics teacher education	290,000	203,000	19,000	103,000	81,000	5,000	81,000
Technology and technical fields	103,000	84,000	43,000	18,000	23,000	S	12,000
Other S&E-related fields	176,000	151,000	17,000	77,000	57,000	2,000	22,000
Non-S&E fields	10,666,000	8,334,000	496,000	669,000	7,168,000	204,000	2,128,000
Management and administration fields	3,581,000	2,953,000	295,000	204,000	2,454,000	86,000	542,000
Education, except science and math teacher education	3,887,000	2,787,000	54,000	329,000	2,404,000	71,000	1,029,000

TABLE 1-1

**College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2017**

(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	883,000	733,000	33,000	33,000	666,000	14,000	136,000
Sales and marketing fields	278,000	252,000	20,000	11,000	221,000	3,000	23,000
Art and humanities fields	984,000	765,000	25,000	43,000	697,000	19,000	199,000
Other non-S&E fields	1,052,000	843,000	69,000	49,000	726,000	11,000	197,000
Doctorate	2,172,000	1,796,000	786,000	267,000	743,000	40,000	336,000
S&E fields	1,311,000	1,082,000	702,000	117,000	262,000	28,000	201,000
Biological, agricultural, and environmental life sciences	372,000	308,000	189,000	55,000	63,000	8,000	57,000
Agricultural and food sciences	27,000	21,000	12,000	S	4,000	D	6,000
Biological sciences	337,000	279,000	173,000	50,000	56,000	8,000	50,000
Environmental life sciences	8,000	7,000	4,000	D	S	D	D
Computer and mathematical sciences	120,000	100,000	76,000	7,000	16,000	2,000	18,000
Computer and information sciences	58,000	52,000	39,000	5,000	8,000	D	6,000
Mathematics and statistics	62,000	48,000	37,000	2,000	8,000	2,000	12,000
Physical and related sciences	207,000	168,000	121,000	18,000	30,000	4,000	34,000
Chemistry, except biochemistry	98,000	79,000	51,000	10,000	17,000	1,000	18,000
Earth, atmospheric, and ocean sciences	27,000	22,000	16,000	S	4,000	D	S
Physics and astronomy	80,000	67,000	52,000	7,000	8,000	S	11,000
Other physical sciences	2,000	S	S	D	D	D	D
Social and related sciences	374,000	298,000	174,000	14,000	110,000	7,000	69,000
Economics	50,000	38,000	25,000	D	13,000	D	12,000
Political and related sciences	38,000	29,000	17,000	S	11,000	D	9,000
Psychology	182,000	148,000	95,000	10,000	44,000	5,000	29,000
Sociology and anthropology	54,000	42,000	26,000	2,000	14,000	D	11,000
Other social sciences	51,000	41,000	11,000	S	28,000	D	8,000
Engineering	237,000	208,000	142,000	23,000	43,000	7,000	23,000
Aerospace, aeronautical, and astronautical engineering	7,000	6,000	4,000	D	D	D	D
Chemical engineering	25,000	20,000	13,000	1,000	6,000	S	4,000
Civil and architectural engineering	20,000	18,000	13,000	2,000	S	D	1,000
Electrical and computer engineering	73,000	66,000	46,000	10,000	10,000	D	6,000
Industrial engineering	11,000	8,000	4,000	D	4,000	D	D
Mechanical engineering	35,000	30,000	24,000	2,000	5,000	1,000	4,000
Other engineering	67,000	58,000	39,000	7,000	12,000	1,000	8,000
S&E-related fields	253,000	219,000	42,000	125,000	52,000	7,000	27,000
Health	221,000	195,000	31,000	123,000	41,000	6,000	20,000
Science and mathematics teacher education	19,000	12,000	5,000	1,000	6,000	D	S
Technology and technical fields	9,000	9,000	5,000	S	3,000	D	D
Other S&E-related fields	4,000	3,000	2,000	D	2,000	D	S
Non-S&E fields	608,000	495,000	41,000	24,000	429,000	4,000	108,000
Management and administration fields	45,000	39,000	4,000	S	34,000	D	6,000



TABLE 1-1

**College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2017**

(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	192,000	146,000	5,000	18,000	123,000	2,000	43,000
Social service and related fields	122,000	100,000	9,000	S	90,000	D	22,000
Sales and marketing fields	10,000	9,000	D	D	8,000	D	D
Art and humanities fields	168,000	148,000	4,000	S	143,000	D	19,000
Other non-S&E fields	71,000	53,000	19,000	2,000	32,000	D	18,000
Professional	3,426,000	3,036,000	67,000	1,404,000	1,565,000	38,000	352,000
S&E fields	46,000	40,000	24,000	S	12,000	D	6,000
S&E-related fields	1,650,000	1,473,000	20,000	1,377,000	76,000	16,000	161,000
Non-S&E fields	1,730,000	1,524,000	24,000	23,000	1,477,000	21,000	185,000

\* = 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, 2017.

TABLE 1-2

**Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2017**

(Number)

Level and field of highest degree	Total	S&E occupations						S&E-related occupations	Non-S&E occupations
		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
All degrees	48,223,000	6,769,000	610,000	3,419,000	366,000	646,000	1,728,000	8,271,000	33,183,000
S&E fields	14,501,000	5,085,000	506,000	2,365,000	330,000	416,000	1,468,000	1,997,000	7,418,000
Biological, agricultural, and environmental life sciences	2,290,000	633,000	416,000	95,000	81,000	11,000	30,000	635,000	1,022,000
Agricultural and food sciences	286,000	57,000	45,000	4,000	4,000	D	6,000	36,000	192,000
Biological sciences	1,763,000	522,000	350,000	82,000	66,000	7,000	18,000	556,000	684,000
Environmental life sciences	241,000	53,000	21,000	10,000	12,000	S	7,000	42,000	146,000
Computer and mathematical sciences	2,567,000	1,437,000	4,000	1,373,000	2,000	8,000	51,000	307,000	823,000
Computer and information sciences	2,017,000	1,257,000	2,000	1,212,000	S	4,000	39,000	205,000	554,000
Mathematics and statistics	550,000	180,000	2,000	161,000	1,000	4,000	12,000	102,000	269,000
Physical and related sciences	814,000	366,000	38,000	62,000	217,000	2,000	47,000	159,000	289,000
Chemistry, except biochemistry	349,000	156,000	26,000	18,000	95,000	S	16,000	84,000	108,000
Earth, atmospheric, and ocean sciences	234,000	93,000	4,000	12,000	69,000	D	9,000	33,000	108,000
Physics and astronomy	202,000	109,000	6,000	30,000	52,000	S	20,000	31,000	62,000
Other physical sciences	29,000	8,000	2,000	D	1,000	D	3,000	10,000	10,000
Social and related sciences	5,336,000	679,000	18,000	234,000	8,000	391,000	28,000	366,000	4,291,000
Economics	870,000	115,000	3,000	50,000	S	55,000	5,000	35,000	721,000
Political and related sciences	994,000	107,000	S	50,000	D	46,000	8,000	51,000	836,000
Psychology	2,034,000	306,000	7,000	69,000	S	223,000	6,000	144,000	1,584,000
Sociology and anthropology	838,000	95,000	2,000	33,000	D	52,000	6,000	78,000	665,000
Other social sciences	600,000	58,000	S	32,000	3,000	15,000	3,000	57,000	485,000
Engineering	3,494,000	1,970,000	30,000	601,000	22,000	4,000	1,312,000	531,000	993,000
Aerospace, aeronautical, and astronautical engineering	127,000	58,000	D	8,000	*	D	50,000	8,000	60,000
Chemical engineering	220,000	129,000	2,000	14,000	3,000	D	109,000	23,000	68,000
Civil and architectural engineering	501,000	250,000	D	14,000	2,000	D	234,000	96,000	155,000

TABLE 1-2

**Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2017**

(Number)

Level and field of highest degree	Total	S&E occupations						S&E-related occupations	Non-S&E occupations
		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
Electrical and computer engineering	1,264,000	820,000	S	456,000	2,000	S	353,000	205,000	239,000
Industrial engineering	214,000	83,000	D	28,000	D	D	54,000	34,000	97,000
Mechanical engineering	689,000	387,000	2,000	42,000	3,000	S	338,000	98,000	204,000
Other engineering	479,000	243,000	18,000	39,000	12,000	D	174,000	67,000	170,000
S&E-related fields	6,870,000	382,000	71,000	180,000	12,000	27,000	92,000	4,796,000	1,693,000
Health	5,572,000	146,000	68,000	52,000	6,000	16,000	5,000	4,297,000	1,129,000
Science and mathematics teacher education	394,000	29,000	3,000	21,000	2,000	S	S	180,000	185,000
Technology and technical fields	453,000	173,000	S	98,000	S	D	73,000	93,000	187,000
Other S&E-related fields	452,000	35,000	D	10,000	4,000	9,000	12,000	225,000	192,000
Non-S&E fields	26,852,000	1,301,000	33,000	874,000	24,000	203,000	168,000	1,479,000	24,072,000
Management and administration fields	9,501,000	573,000	7,000	413,000	6,000	29,000	118,000	391,000	8,537,000
Education, except science and math teacher education	5,157,000	98,000	2,000	75,000	1,000	15,000	6,000	509,000	4,549,000
Social service and related fields	1,364,000	58,000	S	21,000	D	34,000	1,000	73,000	1,232,000
Sales and marketing fields	1,324,000	103,000	D	46,000	D	S	10,000	22,000	1,199,000
Art and humanities fields	4,270,000	226,000	1,000	185,000	9,000	20,000	11,000	236,000	3,807,000
Other non-S&E fields	5,235,000	242,000	20,000	134,000	8,000	58,000	22,000	247,000	4,747,000
Bachelor's	30,131,000	3,846,000	230,000	2,219,000	164,000	172,000	1,061,000	4,338,000	21,946,000
S&E fields	10,241,000	2,918,000	205,000	1,530,000	150,000	90,000	943,000	1,410,000	5,913,000
Biological, agricultural, and environmental life sciences	1,631,000	321,000	163,000	72,000	61,000	5,000	20,000	474,000	836,000
Agricultural and food sciences	224,000	24,000	16,000	S	1,000	D	4,000	27,000	172,000
Biological sciences	1,229,000	265,000	136,000	63,000	52,000	2,000	12,000	413,000	551,000
Environmental life sciences	178,000	31,000	11,000	6,000	7,000	S	4,000	33,000	113,000
Computer and mathematical sciences	1,713,000	879,000	2,000	846,000	S	4,000	27,000	192,000	641,000
Computer and information sciences	1,352,000	807,000	D	785,000	D	D	20,000	121,000	425,000
Mathematics and statistics	361,000	72,000	D	61,000	S	S	7,000	72,000	217,000

TABLE 1-2

**Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2017**

(Number)

Level and field of highest degree	Total	S&E occupations						S&E-related occupations	Non-S&E occupations
		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
Physical and related sciences	466,000	147,000	14,000	35,000	75,000	1,000	23,000	98,000	221,000
Chemistry, except biochemistry	206,000	73,000	9,000	14,000	41,000	*	9,000	60,000	74,000
Earth, atmospheric, and ocean sciences	149,000	39,000	D	7,000	26,000	D	5,000	13,000	97,000
Physics and astronomy	85,000	29,000	S	12,000	8,000	D	7,000	15,000	41,000
Other physical sciences	26,000	7,000	S	D	S	D	D	10,000	10,000
Social and related sciences	4,044,000	305,000	10,000	190,000	5,000	78,000	22,000	278,000	3,461,000
Economics	751,000	70,000	S	41,000	D	S	4,000	33,000	649,000
Political and related sciences	780,000	52,000	D	37,000	D	8,000	S	43,000	684,000
Psychology	1,372,000	101,000	4,000	58,000	*	34,000	4,000	101,000	1,171,000
Sociology and anthropology	722,000	50,000	*	31,000	D	13,000	6,000	69,000	603,000
Other social sciences	419,000	32,000	S	24,000	2,000	S	3,000	33,000	354,000
Engineering	2,387,000	1,265,000	16,000	387,000	8,000	2,000	852,000	368,000	754,000
Aerospace, aeronautical, and astronautical engineering	84,000	32,000	D	5,000	D	D	27,000	6,000	46,000
Chemical engineering	167,000	95,000	1,000	11,000	2,000	D	81,000	17,000	55,000
Civil and architectural engineering	362,000	169,000	D	10,000	D	D	158,000	74,000	119,000
Electrical and computer engineering	816,000	516,000	D	297,000	*	D	211,000	132,000	168,000
Industrial engineering	141,000	51,000	D	15,000	D	D	36,000	21,000	68,000
Mechanical engineering	541,000	284,000	D	31,000	D	D	249,000	79,000	179,000
Other engineering	276,000	118,000	S	17,000	4,000	D	90,000	38,000	119,000
S&E-related fields	3,390,000	189,000	16,000	98,000	2,000	5,000	68,000	2,167,000	1,035,000
Health	2,555,000	43,000	15,000	24,000	1,000	S	2,000	1,870,000	642,000
Science and mathematics teacher education	179,000	5,000	D	4,000	*	D	D	76,000	98,000
Technology and technical fields	360,000	125,000	D	63,000	*	D	61,000	74,000	161,000
Other S&E-related fields	297,000	16,000	D	7,000	D	S	6,000	148,000	134,000

TABLE 1-2

**Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2017**

(Number)

Level and field of highest degree	Total	S&E occupations						S&E-related occupations	Non-S&E occupations
		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
Non-S&E fields	16,499,000	740,000	9,000	591,000	12,000	77,000	49,000	761,000	14,998,000
Management and administration fields	6,509,000	274,000	1,000	244,000	*	S	23,000	185,000	6,050,000
Education, except science and math teacher education	2,223,000	38,000	D	33,000	D	D	3,000	162,000	2,023,000
Social service and related fields	531,000	17,000	D	12,000	D	3,000	D	39,000	476,000
Sales and marketing fields	1,063,000	83,000	D	37,000	D	S	3,000	11,000	969,000
Art and humanities fields	3,356,000	197,000	1,000	165,000	9,000	15,000	8,000	192,000	2,967,000
Other non-S&E fields	2,816,000	130,000	5,000	102,000	3,000	S	12,000	172,000	2,513,000
Master's	13,260,000	2,069,000	149,000	1,039,000	98,000	235,000	548,000	2,262,000	8,929,000
S&E fields	3,138,000	1,442,000	110,000	701,000	81,000	136,000	413,000	467,000	1,230,000
Biological, agricultural, and environmental life sciences	351,000	123,000	89,000	14,000	12,000	2,000	6,000	106,000	122,000
Agricultural and food sciences	40,000	21,000	19,000	D	1,000	D	S	4,000	15,000
Biological sciences	254,000	83,000	62,000	11,000	7,000	S	2,000	93,000	77,000
Environmental life sciences	57,000	18,000	8,000	S	4,000	S	3,000	9,000	30,000
Computer and mathematical sciences	754,000	482,000	1,000	454,000	1,000	3,000	22,000	108,000	165,000
Computer and information sciences	613,000	411,000	S	390,000	*	2,000	19,000	80,000	121,000
Mathematics and statistics	141,000	70,000	D	65,000	D	1,000	4,000	28,000	44,000
Physical and related sciences	179,000	98,000	11,000	16,000	60,000	D	11,000	43,000	38,000
Chemistry, except biochemistry	64,000	32,000	7,000	S	19,000	D	3,000	15,000	18,000
Earth, atmospheric, and ocean sciences	63,000	38,000	S	4,000	29,000	D	4,000	18,000	8,000
Physics and astronomy	50,000	27,000	S	10,000	11,000	D	4,000	10,000	13,000
Other physical sciences	2,000	1,000	*	D	D	D	D	*	D
Social and related sciences	954,000	176,000	3,000	36,000	1,000	131,000	5,000	71,000	707,000
Economics	81,000	20,000	S	6,000	D	12,000	D	S	59,000

TABLE 1-2

**Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2017**

(Number)

Level and field of highest degree	Total	S&E occupations						S&E-related occupations	Non-S&E occupations
		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
Political and related sciences	185,000	37,000	D	13,000	D	21,000	3,000	8,000	140,000
Psychology	474,000	87,000	D	7,000	D	78,000	D	30,000	357,000
Sociology and anthropology	74,000	18,000	1,000	S	D	15,000	D	8,000	48,000
Other social sciences	140,000	14,000	D	8,000	S	5,000	D	23,000	102,000
Engineering	899,000	563,000	5,000	181,000	7,000	1,000	369,000	139,000	197,000
Aerospace, aeronautical, and astronautical engineering	37,000	22,000	D	2,000	D	D	20,000	2,000	13,000
Chemical engineering	33,000	21,000	S	2,000	*	D	18,000	5,000	7,000
Civil and architectural engineering	121,000	69,000	D	3,000	S	D	65,000	19,000	33,000
Electrical and computer engineering	382,000	257,000	D	139,000	*	*	117,000	64,000	61,000
Industrial engineering	65,000	28,000	D	10,000	D	D	17,000	11,000	25,000
Mechanical engineering	117,000	79,000	D	9,000	S	D	69,000	17,000	21,000
Other engineering	145,000	86,000	S	15,000	4,000	D	63,000	21,000	38,000
S&E-related fields	1,788,000	131,000	20,000	65,000	7,000	18,000	21,000	1,126,000	530,000
Health	1,349,000	52,000	17,000	18,000	3,000	12,000	2,000	928,000	370,000
Science and mathematics teacher education	203,000	19,000	2,000	13,000	D	D	S	103,000	81,000
Technology and technical fields	84,000	43,000	D	32,000	D	D	11,000	18,000	23,000
Other S&E-related fields	151,000	17,000	D	3,000	D	5,000	6,000	77,000	57,000
Non-S&E fields	8,334,000	496,000	19,000	272,000	9,000	81,000	114,000	669,000	7,168,000
Management and administration fields	2,953,000	295,000	5,000	168,000	6,000	23,000	93,000	204,000	2,454,000
Education, except science and math teacher education	2,787,000	54,000	1,000	40,000	S	8,000	3,000	329,000	2,404,000
Social service and related fields	733,000	33,000	S	8,000	D	23,000	*	33,000	666,000
Sales and marketing fields	252,000	20,000	D	10,000	D	3,000	7,000	11,000	221,000
Art and humanities fields	765,000	25,000	D	19,000	D	3,000	S	43,000	697,000
Other non-S&E fields	843,000	69,000	11,000	27,000	3,000	21,000	7,000	49,000	726,000
Doctorate	1,796,000	786,000	217,000	150,000	101,000	201,000	116,000	267,000	743,000

TABLE 1-2

**Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2017**

(Number)

Level and field of highest degree	Total	S&E occupations						S&E-related occupations	Non-S&E occupations
		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
S&E fields	1,082,000	702,000	192,000	134,000	98,000	167,000	111,000	117,000	262,000
Biological, agricultural, and environmental life sciences	308,000	189,000	164,000	10,000	9,000	4,000	4,000	55,000	63,000
Agricultural and food sciences	21,000	12,000	9,000	D	1,000	D	D	S	4,000
Biological sciences	279,000	173,000	152,000	8,000	6,000	3,000	3,000	50,000	56,000
Environmental life sciences	7,000	4,000	2,000	S	1,000	D	D	D	S
Computer and mathematical sciences	100,000	76,000	S	72,000	D	S	2,000	7,000	16,000
Computer and information sciences	52,000	39,000	D	37,000	D	S	D	5,000	8,000
Mathematics and statistics	48,000	37,000	D	35,000	D	D	2,000	2,000	8,000
Physical and related sciences	168,000	121,000	13,000	12,000	81,000	S	13,000	18,000	30,000
Chemistry, except biochemistry	79,000	51,000	10,000	3,000	34,000	D	4,000	10,000	17,000
Earth, atmospheric, and ocean sciences	22,000	16,000	D	D	14,000	D	D	S	4,000
Physics and astronomy	67,000	52,000	2,000	8,000	33,000	D	9,000	7,000	8,000
Other physical sciences	S	S	D	D	D	D	D	D	D
Social and related sciences	298,000	174,000	5,000	8,000	S	159,000	D	14,000	110,000
Economics	38,000	25,000	D	3,000	D	22,000	D	D	13,000
Political and related sciences	29,000	17,000	D	*	D	16,000	D	S	11,000
Psychology	148,000	95,000	3,000	4,000	D	88,000	D	10,000	44,000
Sociology and anthropology	42,000	26,000	S	D	D	25,000	D	2,000	14,000
Other social sciences	41,000	11,000	D	D	1,000	9,000	D	S	28,000
Engineering	208,000	142,000	9,000	33,000	7,000	D	92,000	23,000	43,000
Aerospace, aeronautical, and astronautical engineering	6,000	4,000	D	D	D	D	4,000	D	D
Chemical engineering	20,000	13,000	S	S	D	D	11,000	1,000	6,000

TABLE 1-2

**Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2017**

(Number)

Level and field of highest degree	Total	S&E occupations						S&E-related occupations	Non-S&E occupations
		Total	Biological, agricultural, and other life scientists	Computer and mathematical scientists	Physical and related scientists	Social and related scientists	Engineers		
Civil and architectural engineering	18,000	13,000	D	D	D	D	11,000	2,000	S
Electrical and computer engineering	66,000	46,000	D	20,000	1,000	D	25,000	10,000	10,000
Industrial engineering	8,000	4,000	D	2,000	D	D	1,000	D	4,000
Mechanical engineering	30,000	24,000	D	2,000	D	D	20,000	2,000	5,000
Other engineering	58,000	39,000	7,000	7,000	4,000	D	21,000	7,000	12,000
S&E-related fields	219,000	42,000	22,000	11,000	2,000	4,000	3,000	125,000	52,000
Health	195,000	31,000	22,000	S	2,000	2,000	D	123,000	41,000
Science and mathematics teacher education	12,000	5,000	D	4,000	D	D	D	1,000	6,000
Technology and technical fields	9,000	5,000	D	S	D	D	1,000	S	3,000
Other S&E-related fields	3,000	2,000	D	D	D	S	D	D	2,000
Non-S&E fields	495,000	41,000	3,000	5,000	*	31,000	3,000	24,000	429,000
Management and administration fields	39,000	4,000	D	D	D	1,000	D	S	34,000
Education, except science and math teacher education	146,000	5,000	D	1,000	D	4,000	D	18,000	123,000
Social service and related fields	100,000	9,000	D	1,000	D	7,000	D	S	90,000
Sales and marketing fields	9,000	D	D	D	D	D	D	D	8,000
Art and humanities fields	148,000	4,000	D	D	D	2,000	D	S	143,000
Other non-S&E fields	53,000	19,000	2,000	D	D	15,000	D	2,000	32,000
Professional	3,036,000	67,000	15,000	11,000	2,000	37,000	2,000	1,404,000	1,565,000
S&E fields	40,000	24,000	D	D	D	23,000	D	S	12,000
S&E-related fields	1,473,000	20,000	14,000	5,000	D	*	D	1,377,000	76,000
Non-S&E fields	1,524,000	24,000	D	5,000	2,000	13,000	2,000	23,000	1,477,000

\* = 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.

**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, 2017.



TABLE 1-3

**Relationship of highest degree to job among employed college graduates, by level of highest degree, minor field of highest degree, and broad occupation: 2017**

(Number)

Level and field of highest degree	All				S&E occupations				S&E-related occupations				Non-S&E occupations			
	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
All degrees	48,223,000	25,875,000	13,012,000	9,336,000	6,769,000	4,361,000	1,769,000	638,000	8,271,000	6,284,000	1,311,000	677,000	33,183,000	15,230,000	9,932,000	8,021,000
S&E fields	14,501,000	6,932,000	4,302,000	3,266,000	5,085,000	3,619,000	1,152,000	315,000	1,997,000	1,158,000	595,000	245,000	7,418,000	2,156,000	2,556,000	2,706,000
Biological, agricultural, and environmental life sciences	2,290,000	1,129,000	608,000	552,000	633,000	461,000	125,000	47,000	635,000	407,000	169,000	59,000	1,022,000	261,000	314,000	446,000
Agricultural and food sciences	286,000	141,000	69,000	76,000	57,000	43,000	9,000	6,000	36,000	20,000	9,000	S	192,000	78,000	51,000	63,000
Biological sciences	1,763,000	885,000	456,000	422,000	522,000	386,000	99,000	37,000	556,000	372,000	149,000	36,000	684,000	128,000	207,000	349,000
Environmental life sciences	241,000	103,000	84,000	54,000	53,000	33,000	16,000	4,000	42,000	16,000	11,000	15,000	146,000	55,000	56,000	35,000
Computer and mathematical sciences	2,567,000	1,603,000	642,000	321,000	1,437,000	1,112,000	298,000	27,000	307,000	215,000	73,000	19,000	823,000	277,000	271,000	275,000
Computer and information sciences	2,017,000	1,318,000	474,000	225,000	1,257,000	991,000	247,000	20,000	205,000	147,000	43,000	16,000	554,000	180,000	184,000	190,000
Mathematics and statistics	550,000	286,000	168,000	96,000	180,000	121,000	52,000	7,000	102,000	68,000	30,000	4,000	269,000	97,000	87,000	85,000
Physical and related sciences	814,000	425,000	200,000	189,000	366,000	257,000	81,000	29,000	159,000	95,000	51,000	13,000	289,000	73,000	68,000	147,000
Chemistry, except biochemistry	349,000	190,000	97,000	62,000	156,000	111,000	32,000	13,000	84,000	49,000	31,000	4,000	108,000	30,000	33,000	45,000
Earth, atmospheric, and ocean sciences	234,000	116,000	40,000	78,000	93,000	72,000	15,000	6,000	33,000	20,000	8,000	4,000	108,000	25,000	16,000	68,000
Physics and astronomy	202,000	102,000	57,000	43,000	109,000	72,000	29,000	8,000	31,000	16,000	11,000	S	62,000	14,000	17,000	31,000
Other physical sciences	29,000	17,000	6,000	6,000	8,000	3,000	4,000	D	10,000	9,000	D	D	10,000	S	2,000	S
Social and related sciences	5,336,000	1,792,000	1,774,000	1,771,000	679,000	411,000	136,000	132,000	366,000	126,000	117,000	123,000	4,291,000	1,255,000	1,520,000	1,516,000
Economics	870,000	248,000	395,000	227,000	115,000	55,000	45,000	15,000	35,000	4,000	12,000	19,000	721,000	189,000	339,000	193,000
Political and related sciences	994,000	234,000	333,000	428,000	107,000	46,000	19,000	41,000	51,000	11,000	12,000	28,000	836,000	176,000	301,000	359,000
Psychology	2,034,000	865,000	596,000	572,000	306,000	230,000	37,000	39,000	144,000	69,000	38,000	36,000	1,584,000	566,000	521,000	497,000
Sociology and anthropology	838,000	216,000	267,000	355,000	95,000	49,000	16,000	30,000	78,000	15,000	36,000	28,000	665,000	152,000	216,000	298,000
Other social sciences	600,000	229,000	182,000	188,000	58,000	31,000	20,000	7,000	57,000	26,000	19,000	12,000	485,000	172,000	144,000	169,000
Engineering	3,494,000	1,982,000	1,079,000	433,000	1,970,000	1,377,000	512,000	81,000	531,000	315,000	185,000	31,000	993,000	290,000	382,000	321,000

TABLE 1-3

**Relationship of highest degree to job among employed college graduates, by level of highest degree, minor field of highest degree, and broad occupation: 2017**

(Number)

Level and field of highest degree	All				S&E occupations				S&E-related occupations				Non-S&E occupations			
	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Aerospace, aeronautical, and astronautical engineering	127,000	56,000	37,000	33,000	58,000	39,000	14,000	5,000	8,000	2,000	5,000	S	60,000	15,000	18,000	27,000
Chemical engineering	220,000	111,000	72,000	37,000	129,000	84,000	39,000	7,000	23,000	12,000	6,000	S	68,000	15,000	27,000	25,000
Civil and architectural engineering	501,000	317,000	124,000	59,000	250,000	202,000	42,000	7,000	96,000	62,000	30,000	3,000	155,000	53,000	52,000	50,000
Electrical and computer engineering	1,264,000	778,000	379,000	107,000	820,000	586,000	211,000	22,000	205,000	119,000	78,000	8,000	239,000	72,000	90,000	77,000
Industrial engineering	214,000	94,000	85,000	36,000	83,000	45,000	32,000	6,000	34,000	20,000	11,000	3,000	97,000	29,000	42,000	27,000
Mechanical engineering	689,000	372,000	241,000	76,000	387,000	259,000	108,000	19,000	98,000	58,000	36,000	4,000	204,000	55,000	97,000	52,000
Other engineering	479,000	254,000	141,000	85,000	243,000	162,000	66,000	15,000	67,000	42,000	19,000	6,000	170,000	50,000	56,000	64,000
S&E-related fields	6,870,000	5,293,000	865,000	713,000	382,000	243,000	103,000	36,000	4,796,000	4,377,000	332,000	87,000	1,693,000	673,000	430,000	590,000
Health	5,572,000	4,533,000	571,000	468,000	146,000	92,000	37,000	18,000	4,297,000	3,971,000	266,000	60,000	1,129,000	470,000	268,000	391,000
Science and mathematics teacher education	394,000	264,000	56,000	73,000	29,000	18,000	7,000	S	180,000	167,000	7,000	S	185,000	79,000	42,000	64,000
Technology and technical fields	453,000	211,000	144,000	98,000	173,000	116,000	45,000	11,000	93,000	47,000	34,000	12,000	187,000	47,000	65,000	74,000
Other S&E-related fields	452,000	285,000	93,000	74,000	35,000	17,000	14,000	4,000	225,000	191,000	25,000	9,000	192,000	77,000	55,000	60,000
Non-S&E fields	26,852,000	13,651,000	7,844,000	5,357,000	1,301,000	500,000	514,000	287,000	14,799,000	749,000	385,000	345,000	24,072,000	12,402,000	6,946,000	4,725,000
Management and administration fields	9,501,000	4,432,000	3,479,000	1,590,000	573,000	224,000	258,000	91,000	391,000	162,000	135,000	94,000	8,537,000	4,045,000	3,087,000	1,406,000
Education, except science and math teacher education	5,157,000	3,681,000	763,000	713,000	98,000	27,000	51,000	20,000	509,000	350,000	88,000	72,000	4,549,000	3,304,000	625,000	621,000
Social service and related fields	1,364,000	819,000	216,000	329,000	58,000	33,000	8,000	18,000	73,000	25,000	21,000	27,000	1,232,000	762,000	187,000	284,000
Sales and marketing fields	1,324,000	563,000	613,000	148,000	103,000	66,000	25,000	12,000	22,000	7,000	3,000	11,000	1,199,000	490,000	585,000	125,000
Art and humanities fields	4,270,000	1,545,000	1,223,000	1,502,000	226,000	48,000	89,000	90,000	236,000	107,000	53,000	76,000	3,807,000	1,390,000	1,082,000	1,335,000
Other non-S&E fields	5,235,000	2,611,000	1,550,000	1,075,000	242,000	101,000	85,000	56,000	247,000	98,000	85,000	64,000	4,747,000	2,412,000	1,380,000	955,000
Bachelor's	30,131,000	13,209,000	9,328,000	7,594,000	3,846,000	2,198,000	1,161,000	487,000	4,338,000	2,946,000	860,000	532,000	21,946,000	8,064,000	7,307,000	6,575,000
S&E fields	10,241,000	4,042,000	3,330,000	2,870,000	2,918,000	1,880,000	787,000	251,000	1,410,000	745,000	456,000	208,000	5,913,000	1,417,000	2,086,000	2,411,000
Biological, agricultural, and environmental life sciences	1,631,000	656,000	481,000	495,000	321,000	194,000	88,000	39,000	474,000	293,000	133,000	48,000	836,000	169,000	260,000	408,000

TABLE 1-3

**Relationship of highest degree to job among employed college graduates, by level of highest degree, minor field of highest degree, and broad occupation: 2017**

(Number)

Level and field of highest degree	All				S&E occupations				S&E-related occupations				Non-S&E occupations			
	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Agricultural and food sciences	224,000	94,000	59,000	71,000	24,000	14,000	6,000	5,000	27,000	13,000	7,000	S	172,000	67,000	46,000	59,000
Biological sciences	1,229,000	505,000	348,000	376,000	265,000	166,000	69,000	31,000	413,000	269,000	116,000	28,000	551,000	71,000	163,000	317,000
Environmental life sciences	178,000	56,000	73,000	48,000	31,000	15,000	13,000	4,000	33,000	11,000	10,000	12,000	113,000	30,000	51,000	32,000
Computer and mathematical sciences	1,713,000	987,000	460,000	267,000	879,000	658,000	203,000	18,000	192,000	131,000	50,000	12,000	641,000	198,000	206,000	237,000
Computer and information sciences	1,352,000	827,000	338,000	187,000	807,000	620,000	173,000	14,000	121,000	83,000	27,000	10,000	425,000	124,000	138,000	163,000
Mathematics and statistics	361,000	159,000	122,000	80,000	72,000	38,000	31,000	4,000	72,000	48,000	22,000	S	217,000	74,000	69,000	74,000
Physical and related sciences	466,000	189,000	116,000	162,000	147,000	93,000	35,000	20,000	98,000	53,000	35,000	10,000	221,000	43,000	46,000	132,000
Chemistry, except biochemistry	206,000	93,000	65,000	48,000	73,000	47,000	17,000	9,000	60,000	31,000	26,000	S	74,000	15,000	22,000	36,000
Earth, atmospheric, and ocean sciences	149,000	57,000	21,000	72,000	39,000	28,000	7,000	S	13,000	9,000	2,000	S	97,000	20,000	12,000	65,000
Physics and astronomy	85,000	24,000	25,000	36,000	29,000	16,000	8,000	5,000	15,000	5,000	S	D	41,000	S	10,000	28,000
Other physical sciences	26,000	15,000	5,000	6,000	7,000	S	3,000	D	10,000	D	D	D	10,000	S	2,000	S
Social and related sciences	4,044,000	955,000	1,491,000	1,598,000	305,000	82,000	107,000	117,000	278,000	64,000	99,000	115,000	3,461,000	809,000	1,286,000	1,366,000
Economics	751,000	177,000	367,000	208,000	70,000	17,000	39,000	14,000	33,000	2,000	11,000	19,000	649,000	158,000	316,000	174,000
Political and related sciences	780,000	136,000	260,000	384,000	52,000	7,000	12,000	34,000	43,000	7,000	10,000	26,000	684,000	122,000	238,000	324,000
Psychology	1,372,000	372,000	485,000	515,000	101,000	38,000	27,000	36,000	101,000	35,000	32,000	34,000	1,171,000	299,000	426,000	446,000
Sociology and anthropology	722,000	143,000	242,000	337,000	50,000	10,000	12,000	28,000	69,000	8,000	34,000	27,000	603,000	125,000	196,000	282,000
Other social sciences	419,000	127,000	137,000	155,000	32,000	10,000	17,000	5,000	33,000	11,000	12,000	10,000	354,000	105,000	109,000	140,000
Engineering	2,387,000	1,256,000	783,000	348,000	1,265,000	853,000	355,000	57,000	368,000	205,000	140,000	23,000	754,000	197,000	288,000	268,000
Aerospace, aeronautical, and astronautical engineering	84,000	34,000	23,000	26,000	32,000	21,000	7,000	4,000	6,000	2,000	4,000	S	46,000	12,000	13,000	21,000
Chemical engineering	167,000	80,000	56,000	30,000	95,000	60,000	31,000	5,000	17,000	9,000	5,000	S	55,000	12,000	21,000	22,000

TABLE 1-3

**Relationship of highest degree to job among employed college graduates, by level of highest degree, minor field of highest degree, and broad occupation: 2017**

(Number)

Level and field of highest degree	All				S&E occupations				S&E-related occupations				Non-S&E occupations			
	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Civil and architectural engineering	362,000	220,000	95,000	48,000	169,000	133,000	30,000	5,000	74,000	46,000	26,000	S	119,000	41,000	39,000	40,000
Electrical and computer engineering	816,000	466,000	265,000	85,000	516,000	357,000	146,000	13,000	132,000	66,000	58,000	8,000	168,000	43,000	61,000	64,000
Industrial engineering	141,000	55,000	57,000	29,000	51,000	27,000	21,000	4,000	21,000	11,000	9,000	D	68,000	18,000	27,000	23,000
Mechanical engineering	541,000	280,000	198,000	63,000	284,000	184,000	84,000	16,000	79,000	50,000	26,000	3,000	179,000	46,000	88,000	44,000
Other engineering	276,000	120,000	88,000	67,000	118,000	71,000	37,000	10,000	38,000	23,000	12,000	S	119,000	26,000	40,000	53,000
S&E-related fields	3,390,000	2,287,000	581,000	522,000	189,000	101,000	63,000	25,000	2,167,000	1,905,000	209,000	53,000	1,035,000	281,000	310,000	444,000
Health	2,555,000	1,871,000	366,000	317,000	43,000	14,000	19,000	10,000	1,870,000	1,678,000	158,000	34,000	642,000	179,000	189,000	273,000
Science and mathematics teacher education	179,000	97,000	26,000	56,000	5,000	1,000	S	S	76,000	67,000	3,000	D	98,000	28,000	22,000	48,000
Technology and technical fields	360,000	150,000	124,000	86,000	125,000	78,000	36,000	11,000	74,000	34,000	31,000	9,000	161,000	38,000	57,000	66,000
Other S&E-related fields	297,000	169,000	65,000	64,000	16,000	8,000	6,000	2,000	148,000	126,000	17,000	S	134,000	35,000	42,000	56,000
Non-S&E fields	16,499,000	6,880,000	5,417,000	4,202,000	740,000	217,000	311,000	212,000	761,000	296,000	195,000	270,000	14,998,000	6,367,000	4,911,000	3,720,000
Management and administration fields	6,509,000	2,927,000	2,349,000	1,233,000	274,000	89,000	129,000	56,000	185,000	55,000	59,000	71,000	6,050,000	2,783,000	2,161,000	1,105,000
Education, except science and math teacher education	2,223,000	1,350,000	382,000	492,000	38,000	S	28,000	9,000	162,000	84,000	20,000	58,000	2,023,000	1,264,000	333,000	425,000
Social service and related fields	531,000	227,000	105,000	199,000	17,000	3,000	3,000	11,000	39,000	11,000	S	14,000	476,000	214,000	87,000	175,000
Sales and marketing fields	1,063,000	428,000	503,000	132,000	83,000	S	18,000	9,000	11,000	S	S	8,000	969,000	371,000	483,000	116,000
Art and humanities fields	3,356,000	1,055,000	980,000	1,321,000	197,000	37,000	79,000	82,000	192,000	75,000	46,000	71,000	2,967,000	944,000	856,000	1,168,000
Other non-S&E fields	2,816,000	893,000	1,098,000	824,000	130,000	32,000	53,000	45,000	172,000	69,000	54,000	48,000	2,513,000	791,000	991,000	731,000
Master's	13,260,000	8,576,000	3,172,000	1,512,000	2,069,000	1,438,000	500,000	131,000	2,262,000	1,764,000	371,000	127,000	8,929,000	5,374,000	2,301,000	1,254,000
S&E fields	3,138,000	2,000,000	793,000	346,000	1,442,000	1,112,000	278,000	51,000	467,000	315,000	118,000	34,000	1,230,000	572,000	397,000	261,000
Biological, agricultural, and environmental life sciences	351,000	220,000	86,000	45,000	123,000	98,000	21,000	3,000	106,000	67,000	29,000	10,000	122,000	55,000	35,000	32,000
Agricultural and food sciences	40,000	28,000	8,000	5,000	21,000	18,000	2,000	D	4,000	2,000	S	D	15,000	7,000	4,000	4,000

TABLE 1-3

**Relationship of highest degree to job among employed college graduates, by level of highest degree, minor field of highest degree, and broad occupation: 2017**

(Number)

Level and field of highest degree	All				S&E occupations				S&E-related occupations				Non-S&E occupations			
	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Biological sciences	254,000	151,000	68,000	35,000	83,000	65,000	16,000	2,000	93,000	60,000	27,000	7,000	77,000	25,000	26,000	26,000
Environmental life sciences	57,000	41,000	10,000	6,000	18,000	14,000	3,000	D	9,000	4,000	S	D	30,000	22,000	5,000	3,000
Computer and mathematical sciences	754,000	541,000	163,000	51,000	482,000	391,000	83,000	7,000	108,000	80,000	20,000	7,000	165,000	69,000	59,000	36,000
Computer and information sciences	613,000	452,000	124,000	38,000	411,000	340,000	66,000	5,000	80,000	61,000	14,000	5,000	121,000	50,000	44,000	27,000
Mathematics and statistics	141,000	89,000	39,000	13,000	70,000	51,000	17,000	2,000	28,000	19,000	7,000	D	44,000	19,000	15,000	10,000
Physical and related sciences	179,000	113,000	48,000	18,000	98,000	71,000	21,000	6,000	43,000	29,000	12,000	2,000	38,000	13,000	14,000	11,000
Chemistry, except biochemistry	64,000	37,000	16,000	10,000	32,000	23,000	6,000	3,000	15,000	10,000	4,000	S	18,000	4,000	7,000	6,000
Earth, atmospheric, and ocean sciences	63,000	43,000	15,000	5,000	38,000	30,000	7,000	S	18,000	11,000	6,000	D	8,000	2,000	S	3,000
Physics and astronomy	50,000	31,000	16,000	3,000	27,000	17,000	9,000	S	10,000	7,000	S	D	13,000	7,000	5,000	S
Other physical sciences	2,000	1,000	*	D	1,000	S	D	D	*	*	D	D	D	D	D	D
Social and related sciences	954,000	551,000	245,000	158,000	176,000	140,000	23,000	14,000	71,000	48,000	16,000	8,000	707,000	364,000	207,000	137,000
Economics	81,000	36,000	26,000	19,000	20,000	15,000	4,000	1,000	S	S	D	D	59,000	20,000	21,000	18,000
Political and related sciences	185,000	74,000	69,000	43,000	37,000	24,000	6,000	7,000	8,000	4,000	S	S	140,000	45,000	61,000	34,000
Psychology	474,000	333,000	89,000	52,000	87,000	77,000	7,000	S	30,000	24,000	4,000	2,000	357,000	232,000	78,000	47,000
Sociology and anthropology	74,000	37,000	21,000	16,000	18,000	14,000	S	S	8,000	D	S	D	48,000	18,000	16,000	14,000
Other social sciences	140,000	70,000	41,000	29,000	14,000	10,000	3,000	S	23,000	13,000	S	S	102,000	47,000	30,000	25,000
Engineering	899,000	576,000	251,000	73,000	563,000	413,000	129,000	21,000	139,000	92,000	40,000	7,000	197,000	71,000	81,000	45,000
Aerospace, aeronautical, and astronautical engineering	37,000	18,000	13,000	S	22,000	15,000	7,000	1,000	2,000	D	S	D	13,000	3,000	S	S
Chemical engineering	33,000	17,000	9,000	7,000	21,000	14,000	5,000	D	5,000	S	1,000	D	7,000	*	4,000	S
Civil and architectural engineering	121,000	83,000	26,000	12,000	69,000	58,000	10,000	1,000	19,000	14,000	5,000	D	33,000	12,000	11,000	9,000

TABLE 1-3

**Relationship of highest degree to job among employed college graduates, by level of highest degree, minor field of highest degree, and broad occupation: 2017**

(Number)

Level and field of highest degree	All				S&E occupations				S&E-related occupations				Non-S&E occupations			
	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Electrical and computer engineering	382,000	261,000	103,000	18,000	257,000	191,000	58,000	8,000	64,000	45,000	18,000	D	61,000	25,000	26,000	9,000
Industrial engineering	65,000	32,000	26,000	7,000	28,000	16,000	10,000	2,000	11,000	9,000	S	D	25,000	7,000	15,000	3,000
Mechanical engineering	117,000	68,000	40,000	10,000	79,000	54,000	23,000	3,000	17,000	7,000	9,000	D	21,000	6,000	8,000	7,000
Other engineering	145,000	97,000	34,000	15,000	86,000	64,000	17,000	5,000	21,000	15,000	5,000	S	38,000	17,000	12,000	8,000
S&E-related fields	1,788,000	1,414,000	217,000	157,000	131,000	89,000	33,000	10,000	1,126,000	1,016,000	80,000	30,000	530,000	309,000	104,000	118,000
Health	1,349,000	1,089,000	142,000	118,000	52,000	33,000	12,000	6,000	928,000	839,000	67,000	22,000	370,000	217,000	62,000	90,000
Science and mathematics teacher education	203,000	157,000	29,000	18,000	19,000	13,000	5,000	S	103,000	99,000	3,000	D	81,000	45,000	20,000	16,000
Technology and technical fields	84,000	54,000	19,000	11,000	43,000	34,000	8,000	S	18,000	13,000	3,000	S	23,000	7,000	8,000	7,000
Other S&E-related fields	151,000	113,000	28,000	10,000	17,000	8,000	8,000	S	77,000	66,000	7,000	D	57,000	39,000	13,000	4,000
Non-S&E fields	8,334,000	5,163,000	2,162,000	1,009,000	496,000	237,000	189,000	70,000	669,000	433,000	173,000	64,000	7,168,000	4,493,000	1,800,000	875,000
Management and administration fields	2,953,000	1,474,000	1,126,000	353,000	295,000	133,000	128,000	34,000	204,000	107,000	75,000	23,000	2,454,000	1,234,000	923,000	296,000
Education, except science and math teacher education	2,787,000	2,213,000	356,000	218,000	54,000	22,000	21,000	12,000	329,000	250,000	65,000	14,000	2,404,000	1,941,000	270,000	193,000
Social service and related fields	733,000	522,000	99,000	113,000	33,000	23,000	3,000	7,000	33,000	14,000	6,000	13,000	666,000	485,000	89,000	92,000
Sales and marketing fields	252,000	126,000	110,000	15,000	20,000	10,000	6,000	3,000	11,000	6,000	S	D	221,000	110,000	102,000	S
Art and humanities fields	765,000	374,000	226,000	165,000	25,000	8,000	9,000	8,000	43,000	32,000	S	5,000	697,000	335,000	210,000	152,000
Other non-S&E fields	843,000	454,000	245,000	144,000	69,000	42,000	21,000	5,000	49,000	25,000	19,000	6,000	726,000	387,000	205,000	133,000
Doctorate	1,796,000	1,437,000	256,000	103,000	786,000	678,000	95,000	13,000	267,000	231,000	30,000	6,000	743,000	529,000	131,000	83,000
S&E fields	1,082,000	857,000	177,000	47,000	702,000	603,000	86,000	13,000	117,000	93,000	20,000	3,000	262,000	161,000	71,000	31,000
Biological, agricultural, and environmental life sciences	308,000	254,000	42,000	12,000	189,000	169,000	16,000	4,000	55,000	48,000	6,000	1,000	63,000	37,000	20,000	6,000
Agricultural and food sciences	21,000	19,000	2,000	*	12,000	11,000	D	D	S	S	*	D	4,000	3,000	S	D
Biological sciences	279,000	229,000	39,000	11,000	173,000	155,000	14,000	4,000	50,000	43,000	6,000	1,000	56,000	31,000	19,000	6,000

TABLE 1-3

**Relationship of highest degree to job among employed college graduates, by level of highest degree, minor field of highest degree, and broad occupation: 2017**

(Number)

Level and field of highest degree	All				S&E occupations				S&E-related occupations				Non-S&E occupations			
	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Environmental life sciences	7,000	6,000	*	D	4,000	4,000	*	D	D	D	D	D	S	S	D	D
Computer and mathematical sciences	100,000	76,000	20,000	4,000	76,000	62,000	12,000	2,000	7,000	4,000	3,000	D	16,000	10,000	5,000	2,000
Computer and information sciences	52,000	38,000	12,000	D	39,000	30,000	8,000	D	5,000	3,000	2,000	D	8,000	6,000	2,000	D
Mathematics and statistics	48,000	38,000	7,000	3,000	37,000	32,000	4,000	S	2,000	1,000	1,000	D	8,000	4,000	S	D
Physical and related sciences	168,000	124,000	36,000	9,000	121,000	93,000	24,000	3,000	18,000	13,000	3,000	S	30,000	17,000	8,000	5,000
Chemistry, except biochemistry	79,000	60,000	15,000	4,000	51,000	41,000	10,000	D	10,000	8,000	1,000	D	17,000	10,000	4,000	3,000
Earth, atmospheric, and ocean sciences	22,000	16,000	4,000	D	16,000	14,000	2,000	D	S	D	D	D	4,000	2,000	2,000	D
Physics and astronomy	67,000	47,000	16,000	4,000	52,000	38,000	13,000	2,000	7,000	4,000	2,000	D	8,000	5,000	2,000	2,000
Other physical sciences	S	D	D	D	S	D	D	D	D	D	D	D	D	D	D	D
Social and related sciences	298,000	253,000	35,000	11,000	174,000	167,000	6,000	S	14,000	11,000	3,000	D	110,000	75,000	25,000	10,000
Economics	38,000	35,000	2,000	D	25,000	24,000	1,000	D	D	D	D	D	13,000	11,000	1,000	D
Political and related sciences	29,000	24,000	4,000	D	17,000	16,000	S	D	S	D	D	D	11,000	8,000	2,000	D
Psychology	148,000	127,000	19,000	S	95,000	91,000	3,000	D	10,000	7,000	2,000	D	44,000	28,000	14,000	D
Sociology and anthropology	42,000	35,000	5,000	S	26,000	25,000	1,000	D	2,000	1,000	D	D	14,000	8,000	S	S
Other social sciences	41,000	32,000	5,000	D	11,000	11,000	*	D	S	S	D	D	28,000	20,000	4,000	D
Engineering	208,000	151,000	45,000	12,000	142,000	111,000	28,000	3,000	23,000	18,000	4,000	D	43,000	21,000	13,000	8,000
Aerospace, aeronautical, and astronautical engineering	6,000	4,000	D	D	4,000	3,000	D	D	D	D	D	D	D	D	D	D
Chemical engineering	20,000	13,000	6,000	D	13,000	9,000	3,000	D	1,000	S	D	D	6,000	3,000	S	D
Civil and architectural engineering	18,000	15,000	4,000	D	13,000	11,000	1,000	D	2,000	2,000	D	D	S	D	D	D
Electrical and computer engineering	66,000	51,000	11,000	S	46,000	38,000	7,000	D	10,000	9,000	S	D	10,000	5,000	2,000	D

TABLE 1-3

**Relationship of highest degree to job among employed college graduates, by level of highest degree, minor field of highest degree, and broad occupation: 2017**

(Number)

Level and field of highest degree	All				S&E occupations				S&E-related occupations				Non-S&E occupations			
	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related	Total	Closely related	Somewhat related	Not related
Industrial engineering	8,000	7,000	1,000	D	4,000	3,000	D	D	D	D	D	D	4,000	S	D	D
Mechanical engineering	30,000	24,000	4,000	3,000	24,000	21,000	2,000	D	2,000	1,000	D	D	5,000	2,000	1,000	D
Other engineering	58,000	37,000	18,000	3,000	39,000	26,000	12,000	*	7,000	4,000	S	D	12,000	7,000	4,000	S
S&E-related fields	219,000	194,000	14,000	11,000	42,000	39,000	3,000	D	125,000	119,000	4,000	D	52,000	36,000	7,000	8,000
Health	195,000	174,000	11,000	10,000	31,000	30,000	2,000	D	123,000	118,000	3,000	D	41,000	27,000	6,000	8,000
Science and mathematics teacher education	12,000	10,000	S	D	5,000	4,000	D	D	1,000	1,000	D	D	6,000	5,000	D	D
Technology and technical fields	9,000	7,000	2,000	D	5,000	4,000	D	D	S	D	D	D	3,000	S	D	D
Other S&E-related fields	3,000	3,000	D	D	2,000	2,000	D	D	D	D	D	D	2,000	2,000	D	D
Non-S&E fields	495,000	386,000	64,000	45,000	41,000	36,000	5,000	*	24,000	18,000	6,000	S	429,000	332,000	53,000	44,000
Management and administration fields	39,000	31,000	4,000	D	4,000	3,000	D	D	S	D	D	D	34,000	28,000	2,000	D
Education, except science and math teacher education	146,000	118,000	25,000	3,000	5,000	4,000	S	D	18,000	15,000	S	D	123,000	98,000	21,000	3,000
Social service and related fields	100,000	70,000	13,000	17,000	9,000	7,000	D	D	S	D	D	D	90,000	63,000	11,000	17,000
Sales and marketing fields	9,000	9,000	D	D	D	D	D	D	D	D	D	D	8,000	8,000	D	D
Art and humanities fields	148,000	115,000	17,000	16,000	4,000	3,000	D	D	S	S	D	D	143,000	112,000	16,000	15,000
Other non-S&E fields	53,000	43,000	5,000	S	19,000	17,000	S	D	2,000	D	D	D	32,000	24,000	3,000	S
Professional	3,036,000	2,653,000	256,000	127,000	67,000	48,000	13,000	6,000	1,404,000	1,343,000	50,000	12,000	1,565,000	1,263,000	193,000	109,000
S&E fields	40,000	33,000	S	3,000	24,000	23,000	D	D	S	S	D	D	12,000	6,000	S	S
S&E-related fields	1,473,000	1,398,000	53,000	22,000	20,000	15,000	4,000	D	1,377,000	1,336,000	39,000	2,000	76,000	47,000	10,000	19,000
Non-S&E fields	1,524,000	1,222,000	201,000	101,000	24,000	10,000	9,000	5,000	23,000	S	11,000	S	1,477,000	1,210,000	181,000	86,000

\* = 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.

**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, 2017.

TABLE 1-4

**Employed college graduates, by level of highest degree, minor field of highest degree, and detailed employment sector: 2017**

(Number)

Level and field of highest degree	Total	Business or industry				Education			Government		
		Total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Total	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Total	Federal government	State or local government
All degrees	48,223,000	33,510,000	25,483,000	4,800,000	3,227,000	9,905,000	3,056,000	6,849,000	4,808,000	1,934,000	2,874,000
S&E fields	14,501,000	10,597,000	8,632,000	1,092,000	873,000	2,240,000	1,200,000	1,040,000	1,663,000	748,000	915,000
Biological, agricultural, and environmental life sciences	2,290,000	1,493,000	1,096,000	259,000	138,000	488,000	308,000	180,000	308,000	140,000	168,000
Agricultural and food sciences	286,000	217,000	155,000	25,000	37,000	34,000	21,000	13,000	35,000	18,000	16,000
Biological sciences	1,763,000	1,126,000	826,000	215,000	84,000	430,000	277,000	152,000	207,000	98,000	109,000
Environmental life sciences	241,000	150,000	114,000	20,000	16,000	25,000	10,000	15,000	66,000	24,000	42,000
Computer and mathematical sciences	2,567,000	2,029,000	1,822,000	110,000	97,000	311,000	150,000	161,000	227,000	119,000	107,000
Computer and information sciences	2,017,000	1,679,000	1,519,000	85,000	75,000	147,000	92,000	55,000	191,000	100,000	91,000
Mathematics and statistics	550,000	351,000	303,000	25,000	23,000	163,000	58,000	105,000	36,000	20,000	16,000
Physical and related sciences	814,000	522,000	440,000	36,000	45,000	200,000	134,000	66,000	92,000	45,000	47,000
Chemistry, except biochemistry	349,000	243,000	212,000	14,000	17,000	86,000	62,000	24,000	20,000	13,000	7,000
Earth, atmospheric, and ocean sciences	234,000	137,000	116,000	13,000	8,000	48,000	25,000	23,000	49,000	17,000	32,000
Physics and astronomy	202,000	120,000	95,000	9,000	17,000	59,000	45,000	14,000	23,000	15,000	8,000
Other physical sciences	29,000	21,000	17,000	S	S	7,000	S	5,000	S	D	D
Social and related sciences	5,336,000	3,657,000	2,623,000	591,000	444,000	1,002,000	418,000	584,000	676,000	257,000	419,000
Economics	870,000	711,000	590,000	30,000	90,000	67,000	35,000	31,000	93,000	49,000	44,000
Political and related sciences	994,000	725,000	561,000	116,000	48,000	112,000	62,000	50,000	158,000	84,000	74,000
Psychology	2,034,000	1,334,000	855,000	286,000	193,000	478,000	177,000	300,000	222,000	65,000	157,000
Sociology and anthropology	838,000	533,000	366,000	98,000	69,000	176,000	73,000	102,000	129,000	41,000	89,000
Other social sciences	600,000	355,000	251,000	60,000	43,000	171,000	71,000	100,000	75,000	19,000	56,000
Engineering	3,494,000	2,896,000	2,651,000	96,000	149,000	239,000	190,000	50,000	359,000	186,000	173,000
Aerospace, aeronautical, and astronautical engineering	127,000	96,000	87,000	6,000	S	14,000	7,000	S	18,000	12,000	S
Chemical engineering	220,000	188,000	171,000	12,000	5,000	21,000	19,000	3,000	11,000	7,000	3,000
Civil and architectural engineering	501,000	365,000	328,000	5,000	32,000	25,000	22,000	3,000	111,000	20,000	92,000
Electrical and computer engineering	1,264,000	1,106,000	1,015,000	45,000	45,000	67,000	56,000	10,000	92,000	62,000	29,000
Industrial engineering	214,000	193,000	179,000	5,000	9,000	13,000	S	9,000	8,000	6,000	2,000
Mechanical engineering	689,000	584,000	546,000	8,000	30,000	45,000	33,000	12,000	60,000	44,000	16,000

TABLE 1-4

**Employed college graduates, by level of highest degree, minor field of highest degree, and detailed employment sector: 2017**

(Number)

Level and field of highest degree	Total	Business or industry				Education			Government		
		Total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Total	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Total	Federal government	State or local government
Other engineering	479,000	365,000	325,000	15,000	25,000	55,000	48,000	6,000	60,000	34,000	25,000
S&E-related fields	6,870,000	5,174,000	3,207,000	1,547,000	420,000	1,158,000	569,000	589,000	538,000	230,000	309,000
Health	5,572,000	4,314,000	2,484,000	1,485,000	344,000	803,000	504,000	299,000	455,000	196,000	259,000
Science and mathematics teacher education	394,000	81,000	64,000	5,000	12,000	305,000	38,000	267,000	7,000	S	6,000
Technology and technical fields	453,000	396,000	349,000	27,000	21,000	25,000	12,000	13,000	31,000	23,000	8,000
Other S&E-related fields	452,000	383,000	310,000	30,000	43,000	25,000	15,000	10,000	45,000	10,000	35,000
Non-S&E fields	26,852,000	17,739,000	13,644,000	2,160,000	1,935,000	6,507,000	1,287,000	5,220,000	2,606,000	956,000	1,650,000
Management and administration fields	9,501,000	7,883,000	6,715,000	571,000	597,000	720,000	394,000	326,000	899,000	410,000	488,000
Education, except science and math teacher education	5,157,000	1,260,000	777,000	287,000	196,000	3,751,000	199,000	3,552,000	146,000	39,000	107,000
Social service and related fields	1,364,000	994,000	389,000	481,000	124,000	189,000	74,000	115,000	181,000	41,000	140,000
Sales and marketing fields	1,324,000	1,224,000	1,084,000	64,000	77,000	64,000	17,000	48,000	35,000	23,000	S
Art and humanities fields	4,270,000	2,890,000	2,087,000	310,000	492,000	1,079,000	373,000	705,000	301,000	114,000	187,000
Other non-S&E fields	5,235,000	3,488,000	2,593,000	447,000	447,000	704,000	231,000	473,000	1,044,000	329,000	715,000
Bachelor's	30,131,000	22,630,000	17,766,000	2,812,000	2,053,000	4,547,000	1,191,000	3,355,000	2,954,000	1,066,000	1,888,000
S&E fields	10,241,000	7,895,000	6,468,000	764,000	663,000	1,181,000	496,000	685,000	1,165,000	474,000	691,000
Biological, agricultural, and environmental life sciences	1,631,000	1,168,000	860,000	191,000	117,000	237,000	115,000	122,000	226,000	92,000	134,000
Agricultural and food sciences	224,000	183,000	129,000	17,000	37,000	16,000	7,000	S	25,000	11,000	14,000
Biological sciences	1,229,000	869,000	640,000	164,000	65,000	205,000	105,000	101,000	155,000	65,000	90,000
Environmental life sciences	178,000	116,000	91,000	9,000	16,000	16,000	S	12,000	46,000	17,000	29,000
Computer and mathematical sciences	1,713,000	1,379,000	1,229,000	77,000	73,000	168,000	58,000	110,000	166,000	87,000	79,000
Computer and information sciences	1,352,000	1,124,000	1,010,000	58,000	57,000	85,000	45,000	40,000	142,000	77,000	65,000
Mathematics and statistics	361,000	254,000	219,000	19,000	16,000	82,000	13,000	70,000	24,000	10,000	14,000
Physical and related sciences	466,000	328,000	276,000	24,000	28,000	88,000	47,000	41,000	51,000	13,000	38,000
Chemistry, except biochemistry	206,000	153,000	133,000	S	10,000	44,000	30,000	13,000	9,000	4,000	6,000
Earth, atmospheric, and ocean sciences	149,000	96,000	81,000	8,000	7,000	20,000	6,000	13,000	34,000	6,000	28,000

TABLE 1-4

**Employed college graduates, by level of highest degree, minor field of highest degree, and detailed employment sector: 2017**

(Number)

Level and field of highest degree	Total	Business or industry				Education			Government		
		Total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Total	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Total	Federal government	State or local government
Physics and astronomy	85,000	59,000	46,000	5,000	S	18,000	9,000	10,000	8,000	4,000	S
Other physical sciences	26,000	19,000	16,000	D	D	6,000	S	S	D	D	D
Social and related sciences	4,044,000	2,990,000	2,244,000	409,000	337,000	568,000	190,000	378,000	486,000	171,000	315,000
Economics	751,000	637,000	541,000	19,000	77,000	37,000	10,000	27,000	78,000	39,000	38,000
Political and related sciences	780,000	613,000	490,000	80,000	44,000	65,000	32,000	33,000	102,000	43,000	58,000
Psychology	1,372,000	961,000	661,000	187,000	113,000	257,000	98,000	159,000	154,000	46,000	108,000
Sociology and anthropology	722,000	497,000	345,000	88,000	64,000	119,000	30,000	90,000	106,000	34,000	72,000
Other social sciences	419,000	282,000	207,000	36,000	40,000	90,000	21,000	69,000	47,000	9,000	38,000
Engineering	2,387,000	2,031,000	1,860,000	63,000	108,000	120,000	86,000	34,000	236,000	110,000	126,000
Aerospace, aeronautical, and astronautical engineering	84,000	64,000	62,000	S	D	11,000	4,000	S	9,000	7,000	D
Chemical engineering	167,000	149,000	133,000	11,000	5,000	11,000	9,000	S	7,000	4,000	2,000
Civil and architectural engineering	362,000	267,000	242,000	4,000	22,000	10,000	9,000	S	85,000	14,000	70,000
Electrical and computer engineering	816,000	728,000	665,000	34,000	29,000	28,000	24,000	4,000	60,000	35,000	25,000
Industrial engineering	141,000	127,000	119,000	2,000	6,000	9,000	S	7,000	5,000	5,000	*
Mechanical engineering	541,000	464,000	435,000	4,000	25,000	28,000	17,000	11,000	49,000	35,000	14,000
Other engineering	276,000	231,000	204,000	7,000	21,000	24,000	20,000	4,000	21,000	9,000	13,000
S&E-related fields	3,390,000	2,686,000	1,662,000	831,000	193,000	432,000	175,000	257,000	273,000	96,000	177,000
Health	2,555,000	2,065,000	1,137,000	786,000	142,000	274,000	148,000	126,000	215,000	67,000	148,000
Science and mathematics teacher education	179,000	48,000	43,000	S	S	125,000	13,000	112,000	5,000	D	D
Technology and technical fields	360,000	315,000	276,000	23,000	17,000	17,000	6,000	12,000	27,000	20,000	7,000
Other S&E-related fields	297,000	257,000	206,000	20,000	30,000	15,000	9,000	7,000	25,000	8,000	17,000
Non-S&E fields	16,499,000	12,049,000	9,636,000	1,216,000	1,196,000	2,934,000	520,000	2,414,000	1,516,000	496,000	1,021,000
Management and administration fields	6,509,000	5,409,000	4,599,000	380,000	431,000	483,000	259,000	224,000	617,000	256,000	361,000
Education, except science and math teacher education	2,223,000	843,000	546,000	191,000	106,000	1,300,000	18,000	1,282,000	81,000	27,000	54,000
Social service and related fields	531,000	401,000	162,000	164,000	75,000	41,000	11,000	30,000	89,000	10,000	79,000
Sales and marketing fields	1,063,000	998,000	887,000	49,000	61,000	40,000	D	39,000	25,000	23,000	S

TABLE 1-4

## Employed college graduates, by level of highest degree, minor field of highest degree, and detailed employment sector: 2017

(Number)

Level and field of highest degree	Total	Business or industry				Education			Government		
		Total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Total	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Total	Federal government	State or local government
Art and humanities fields	3,356,000	2,417,000	1,843,000	205,000	369,000	674,000	154,000	520,000	264,000	107,000	158,000
Other non-S&E fields	2,816,000	1,981,000	1,600,000	227,000	155,000	395,000	77,000	319,000	439,000	73,000	366,000
Master's	13,260,000	7,763,000	5,671,000	1,427,000	664,000	4,186,000	919,000	3,268,000	1,311,000	571,000	740,000
S&E fields	3,138,000	2,159,000	1,751,000	261,000	147,000	583,000	275,000	308,000	397,000	197,000	200,000
Biological, agricultural, and environmental life sciences	351,000	194,000	138,000	46,000	10,000	106,000	60,000	46,000	51,000	23,000	28,000
Agricultural and food sciences	40,000	23,000	16,000	S	*	9,000	6,000	3,000	8,000	S	2,000
Biological sciences	254,000	138,000	100,000	29,000	9,000	91,000	50,000	41,000	24,000	11,000	13,000
Environmental life sciences	57,000	33,000	22,000	10,000	S	5,000	3,000	D	19,000	6,000	12,000
Computer and mathematical sciences	754,000	599,000	546,000	30,000	24,000	99,000	50,000	49,000	56,000	28,000	28,000
Computer and information sciences	613,000	520,000	476,000	26,000	18,000	46,000	31,000	15,000	48,000	22,000	26,000
Mathematics and statistics	141,000	80,000	69,000	4,000	6,000	53,000	19,000	34,000	8,000	6,000	S
Physical and related sciences	179,000	110,000	94,000	6,000	11,000	49,000	29,000	20,000	20,000	14,000	7,000
Chemistry, except biochemistry	64,000	44,000	39,000	1,000	S	16,000	7,000	9,000	4,000	3,000	1,000
Earth, atmospheric, and ocean sciences	63,000	34,000	31,000	S	1,000	17,000	9,000	8,000	12,000	8,000	4,000
Physics and astronomy	50,000	31,000	23,000	D	5,000	15,000	13,000	3,000	4,000	S	D
Other physical sciences	2,000	1,000	*	D	D	1,000	D	*	D	D	D
Social and related sciences	954,000	523,000	299,000	154,000	70,000	271,000	91,000	179,000	161,000	68,000	92,000
Economics	81,000	57,000	35,000	10,000	12,000	11,000	8,000	3,000	13,000	8,000	5,000
Political and related sciences	185,000	103,000	65,000	34,000	4,000	27,000	12,000	15,000	55,000	40,000	15,000
Psychology	474,000	271,000	144,000	80,000	47,000	155,000	32,000	123,000	48,000	8,000	40,000
Sociology and anthropology	74,000	28,000	17,000	7,000	S	26,000	16,000	10,000	21,000	4,000	17,000
Other social sciences	140,000	64,000	38,000	23,000	3,000	51,000	23,000	28,000	25,000	10,000	15,000
Engineering	899,000	733,000	675,000	25,000	32,000	59,000	45,000	14,000	108,000	63,000	45,000
Aerospace, aeronautical, and astronautical engineering	37,000	27,000	23,000	S	D	1,000	1,000	D	8,000	4,000	D
Chemical engineering	33,000	25,000	24,000	*	*	S	S	S	S	D	*
Civil and architectural engineering	121,000	88,000	79,000	D	9,000	7,000	5,000	S	26,000	5,000	21,000

TABLE 1-4

## Employed college graduates, by level of highest degree, minor field of highest degree, and detailed employment sector: 2017

(Number)

Level and field of highest degree	Total	Business or industry				Education			Government		
		Total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Total	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Total	Federal government	State or local government
Electrical and computer engineering	382,000	327,000	303,000	9,000	14,000	25,000	19,000	S	30,000	25,000	5,000
Industrial engineering	65,000	59,000	54,000	3,000	S	3,000	S	S	3,000	1,000	D
Mechanical engineering	117,000	102,000	96,000	3,000	3,000	6,000	4,000	S	9,000	7,000	2,000
Other engineering	145,000	105,000	97,000	6,000	3,000	9,000	9,000	1,000	31,000	20,000	11,000
S&E-related fields	1,788,000	1,158,000	699,000	381,000	78,000	458,000	148,000	310,000	172,000	71,000	101,000
Health	1,349,000	927,000	508,000	365,000	54,000	275,000	122,000	154,000	147,000	67,000	80,000
Science and mathematics teacher education	203,000	30,000	20,000	3,000	S	170,000	S	153,000	2,000	D	2,000
Technology and technical fields	84,000	76,000	68,000	S	S	5,000	4,000	S	3,000	2,000	2,000
Other S&E-related fields	151,000	124,000	103,000	9,000	12,000	7,000	4,000	S	20,000	2,000	18,000
Non-S&E fields	8,334,000	4,446,000	3,221,000	786,000	439,000	3,146,000	496,000	2,650,000	742,000	303,000	439,000
Management and administration fields	2,953,000	2,461,000	2,107,000	191,000	163,000	211,000	110,000	101,000	281,000	153,000	128,000
Education, except science and math teacher education	2,787,000	388,000	222,000	81,000	84,000	2,343,000	139,000	2,204,000	57,000	13,000	44,000
Social service and related fields	733,000	533,000	210,000	283,000	40,000	109,000	33,000	76,000	91,000	30,000	61,000
Sales and marketing fields	252,000	227,000	196,000	S	16,000	15,000	S	S	S	D	S
Art and humanities fields	765,000	442,000	237,000	98,000	106,000	290,000	124,000	166,000	33,000	6,000	28,000
Other non-S&E fields	843,000	396,000	249,000	118,000	30,000	177,000	83,000	94,000	271,000	102,000	169,000
Doctorate	1,796,000	805,000	536,000	163,000	107,000	863,000	717,000	147,000	128,000	89,000	39,000
S&E fields	1,082,000	517,000	399,000	62,000	56,000	468,000	424,000	43,000	97,000	74,000	23,000
Biological, agricultural, and environmental life sciences	308,000	131,000	98,000	22,000	10,000	145,000	134,000	12,000	31,000	24,000	7,000
Agricultural and food sciences	21,000	11,000	10,000	*	D	9,000	8,000	D	2,000	2,000	D
Biological sciences	279,000	118,000	87,000	22,000	10,000	133,000	122,000	11,000	28,000	22,000	6,000
Environmental life sciences	7,000	2,000	1,000	D	D	4,000	4,000	D	1,000	D	S
Computer and mathematical sciences	100,000	51,000	48,000	3,000	D	44,000	42,000	2,000	5,000	4,000	D
Computer and information sciences	52,000	35,000	33,000	S	D	16,000	16,000	D	S	D	D
Mathematics and statistics	48,000	17,000	15,000	2,000	D	28,000	26,000	2,000	4,000	4,000	D

TABLE 1-4

**Employed college graduates, by level of highest degree, minor field of highest degree, and detailed employment sector: 2017**

(Number)

Level and field of highest degree	Total	Business or industry				Education			Government		
		Total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Total	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Total	Federal government	State or local government
Physical and related sciences	168,000	84,000	71,000	7,000	7,000	63,000	58,000	5,000	21,000	18,000	3,000
Chemistry, except biochemistry	79,000	45,000	40,000	2,000	3,000	26,000	24,000	2,000	7,000	7,000	D
Earth, atmospheric, and ocean sciences	22,000	7,000	5,000	2,000	D	12,000	10,000	D	3,000	3,000	D
Physics and astronomy	67,000	31,000	25,000	2,000	3,000	26,000	24,000	2,000	11,000	9,000	S
Other physical sciences	S	D	D	D	D	D	D	D	D	D	D
Social and related sciences	298,000	119,000	66,000	23,000	29,000	155,000	132,000	23,000	25,000	15,000	10,000
Economics	38,000	17,000	14,000	2,000	S	19,000	18,000	S	3,000	2,000	D
Political and related sciences	29,000	8,000	5,000	2,000	D	19,000	18,000	2,000	2,000	S	D
Psychology	148,000	77,000	36,000	15,000	25,000	57,000	42,000	15,000	15,000	8,000	6,000
Sociology and anthropology	42,000	8,000	4,000	S	S	30,000	28,000	S	3,000	3,000	D
Other social sciences	41,000	8,000	6,000	S	D	30,000	27,000	3,000	S	*	D
Engineering	208,000	132,000	116,000	7,000	9,000	60,000	58,000	S	16,000	12,000	3,000
Aerospace, aeronautical, and astronautical engineering	6,000	4,000	2,000	D	D	2,000	2,000	D	S	S	D
Chemical engineering	20,000	14,000	14,000	D	D	4,000	3,000	D	2,000	D	D
Civil and architectural engineering	18,000	9,000	6,000	D	S	8,000	8,000	D	1,000	D	1,000
Electrical and computer engineering	66,000	51,000	46,000	2,000	2,000	13,000	13,000	D	2,000	2,000	D
Industrial engineering	8,000	8,000	7,000	D	D	1,000	1,000	D	D	D	D
Mechanical engineering	30,000	17,000	16,000	D	D	11,000	11,000	D	2,000	1,000	D
Other engineering	58,000	29,000	25,000	3,000	1,000	22,000	20,000	S	8,000	6,000	S
S&E-related fields	219,000	132,000	76,000	44,000	13,000	72,000	64,000	7,000	15,000	10,000	S
Health	195,000	123,000	69,000	42,000	12,000	57,000	53,000	5,000	14,000	9,000	S
Science and mathematics teacher education	12,000	S	D	D	D	10,000	8,000	2,000	D	D	D
Technology and technical fields	9,000	5,000	5,000	D	D	3,000	2,000	D	D	D	D
Other S&E-related fields	3,000	2,000	S	*	D	2,000	2,000	D	D	D	D
Non-S&E fields	495,000	156,000	61,000	57,000	38,000	324,000	228,000	96,000	15,000	4,000	11,000
Management and administration fields	39,000	13,000	8,000	D	S	25,000	24,000	1,000	S	D	D

TABLE 1-4

**Employed college graduates, by level of highest degree, minor field of highest degree, and detailed employment sector: 2017**

(Number)

Level and field of highest degree	Total	Business or industry			Education			Government			
		Total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Total	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Total	Federal government	State or local government
Education, except science and math teacher education	146,000	29,000	9,000	14,000	6,000	109,000	43,000	66,000	S	D	S
Social service and related fields	100,000	61,000	17,000	34,000	9,000	38,000	30,000	9,000	D	D	D
Sales and marketing fields	9,000	D	D	D	D	9,000	9,000	D	D	D	D
Art and humanities fields	148,000	30,000	7,000	S	17,000	114,000	96,000	19,000	4,000	S	D
Other non-S&E fields	53,000	23,000	19,000	S	S	29,000	28,000	D	S	D	D
Professional	3,036,000	2,312,000	1,510,000	398,000	404,000	309,000	230,000	79,000	415,000	208,000	207,000
S&E fields	40,000	26,000	14,000	5,000	7,000	9,000	5,000	S	5,000	3,000	2,000
S&E-related fields	1,473,000	1,198,000	771,000	292,000	136,000	197,000	181,000	15,000	78,000	52,000	26,000
Non-S&E fields	1,524,000	1,088,000	726,000	101,000	261,000	103,000	43,000	60,000	333,000	153,000	179,000

\* = 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> Includes medical schools and university-affiliated research institutes.

**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, 2017.



TABLE 1-5

**Employed scientists and engineers, by sex, major field of highest degree, ethnicity, race, disability status, and type of disability: 2017**

(Number)

Sex and field of highest degree	Total	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	Type of disability				
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race			Hearing	Seeing	Walking	Lifting	Cognitive
Both sexes, all fields	6,769,000	505,000	14,000	1,338,000	382,000	23,000	4,397,000	109,000	6,120,000	649,000	228,000	323,000	60,000	71,000	120,000
S&E fields	5,085,000	344,000	9,000	1,150,000	250,000	18,000	3,232,000	81,000	4,651,000	434,000	152,000	203,000	38,000	50,000	89,000
Biological, agricultural, and environmental life sciences	633,000	38,000	1,000	111,000	20,000	1,000	450,000	11,000	586,000	46,000	12,000	22,000	5,000	5,000	12,000
Computer and mathematical sciences	1,437,000	63,000	S	389,000	111,000	7,000	844,000	20,000	1,303,000	134,000	45,000	67,000	11,000	18,000	32,000
Physical and related sciences	366,000	19,000	D	70,000	15,000	D	255,000	6,000	330,000	36,000	12,000	18,000	3,000	4,000	7,000
Social and related sciences	679,000	65,000	S	55,000	42,000	1,000	503,000	12,000	620,000	60,000	24,000	20,000	6,000	5,000	11,000
Engineering	1,970,000	160,000	5,000	525,000	62,000	8,000	1,179,000	32,000	1,812,000	158,000	60,000	75,000	13,000	17,000	27,000
S&E-related fields	382,000	34,000	D	81,000	22,000	D	237,000	6,000	348,000	34,000	15,000	17,000	S	3,000	4,000
Non-S&E fields	1,301,000	127,000	4,000	107,000	110,000	5,000	927,000	22,000	1,120,000	181,000	61,000	104,000	20,000	19,000	27,000
Female	1,966,000	154,000	5,000	409,000	168,000	5,000	1,188,000	37,000	1,816,000	150,000	34,000	72,000	20,000	35,000	29,000
S&E fields	1,347,000	109,000	4,000	340,000	102,000	3,000	769,000	20,000	1,246,000	101,000	18,000	50,000	9,000	21,000	24,000
Biological, agricultural, and environmental life sciences	273,000	21,000	D	47,000	11,000	S	189,000	4,000	252,000	21,000	3,000	11,000	1,000	3,000	5,000
Computer and mathematical sciences	345,000	14,000	D	135,000	47,000	D	145,000	1,000	317,000	28,000	6,000	15,000	S	9,000	6,000
Physical and related sciences	96,000	8,000	D	19,000	5,000	D	61,000	2,000	86,000	10,000	1,000	5,000	D	3,000	4,000
Social and related sciences	322,000	37,000	S	31,000	25,000	D	222,000	6,000	294,000	28,000	7,000	12,000	4,000	4,000	6,000
Engineering	310,000	30,000	D	108,000	14,000	D	151,000	6,000	297,000	13,000	1,000	8,000	D	2,000	3,000
S&E-related fields	147,000	13,000	D	32,000	7,000	D	92,000	3,000	139,000	9,000	1,000	S	S	S	S
Non-S&E fields	471,000	32,000	S	37,000	59,000	2,000	327,000	14,000	431,000	41,000	15,000	19,000	9,000	12,000	4,000
Male	4,803,000	351,000	9,000	929,000	214,000	19,000	3,209,000	73,000	4,304,000	499,000	194,000	251,000	40,000	36,000	91,000
S&E fields	3,738,000	235,000	6,000	810,000	148,000	15,000	2,463,000	61,000	3,405,000	333,000	134,000	153,000	29,000	28,000	65,000
Biological, agricultural, and environmental life sciences	359,000	17,000	1,000	64,000	10,000	*	261,000	7,000	335,000	25,000	9,000	12,000	4,000	S	7,000
Computer and mathematical sciences	1,091,000	49,000	D	254,000	64,000	5,000	699,000	19,000	986,000	105,000	39,000	52,000	8,000	9,000	25,000
Physical and related sciences	270,000	11,000	D	50,000	10,000	D	194,000	3,000	244,000	26,000	11,000	13,000	2,000	2,000	3,000
Social and related sciences	357,000	28,000	S	24,000	17,000	D	281,000	6,000	325,000	32,000	17,000	9,000	2,000	S	5,000
Engineering	1,660,000	130,000	S	417,000	48,000	8,000	1,028,000	26,000	1,516,000	144,000	59,000	67,000	12,000	15,000	24,000
S&E-related fields	235,000	21,000	D	49,000	15,000	D	146,000	S	210,000	25,000	14,000	13,000	S	1,000	S

TABLE 1-5

**Employed scientists and engineers, by sex, major field of highest degree, ethnicity, race, disability status, and type of disability: 2017**

(Number)

Sex and field of highest degree	Total	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	Type of disability				
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race			Hearing	Seeing	Walking	Lifting	Cognitive
Non-S&E fields	830,000	95,000	S	70,000	51,000	D	600,000	8,000	689,000	140,000	46,000	85,000	11,000	7,000	23,000

\* = 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.

**Note(s):**

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding. Scientists and engineers are bachelor's and higher degreed individuals living in the United States employed in an S&E occupation. Hispanic or Latino may be any race; race categories exclude Hispanic origin. 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. Those respondents who answered "moderate," "severe," or "unable to do" for an activity were classified as having a disability.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

TABLE 2-1

**Employed college graduates, by level of highest degree, major occupation, sex, ethnicity, race, and disability status: 2017**

(Number)

Level of highest degree and occupation	Total	Female	Male	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability
					American Indian or Alaska Native	Asian	Black	Native Hawaiian or Other Pacific Islander	White	More than one race		
All degrees	48,223,000	24,900,000	23,323,000	4,280,000	121,000	4,498,000	3,805,000	137,000	34,435,000	946,000	42,610,000	5,613,000
S&E occupations	6,769,000	1,966,000	4,803,000	505,000	14,000	1,338,000	382,000	23,000	4,397,000	109,000	6,120,000	649,000
Biological, agricultural, and other life scientists	610,000	292,000	319,000	38,000	S	126,000	20,000	1,000	415,000	9,000	570,000	41,000
Computer and mathematical scientists	3,419,000	919,000	2,500,000	200,000	4,000	840,000	242,000	12,000	2,070,000	52,000	3,112,000	307,000
Physical and related scientists	366,000	107,000	259,000	29,000	S	51,000	11,000	S	265,000	7,000	332,000	34,000
Social and related scientists	646,000	379,000	266,000	95,000	S	38,000	48,000	S	451,000	10,000	559,000	87,000
Engineers	1,728,000	269,000	1,459,000	143,000	5,000	283,000	62,000	8,000	1,196,000	31,000	1,548,000	180,000
S&E-related occupations	8,271,000	4,764,000	3,507,000	702,000	28,000	1,042,000	610,000	16,000	5,726,000	147,000	7,532,000	739,000
Non-S&E occupations	33,183,000	18,170,000	15,013,000	3,073,000	80,000	2,118,000	2,813,000	97,000	24,313,000	689,000	28,958,000	4,225,000
Bachelor's	30,131,000	15,524,000	14,606,000	2,902,000	86,000	2,347,000	2,419,000	105,000	21,626,000	645,000	26,490,000	3,641,000
S&E occupations	3,846,000	979,000	2,867,000	331,000	9,000	522,000	252,000	19,000	2,641,000	72,000	3,461,000	385,000
Biological, agricultural, and other life scientists	230,000	119,000	110,000	17,000	D	24,000	8,000	1,000	175,000	5,000	214,000	16,000
Computer and mathematical scientists	2,219,000	570,000	1,649,000	153,000	S	369,000	193,000	10,000	1,450,000	40,000	2,014,000	205,000
Physical and related scientists	164,000	49,000	115,000	17,000	S	17,000	6,000	S	119,000	3,000	148,000	16,000
Social and related scientists	172,000	92,000	80,000	S	D	4,000	8,000	D	107,000	S	133,000	S
Engineers	1,061,000	149,000	912,000	93,000	4,000	109,000	37,000	7,000	789,000	21,000	952,000	109,000
S&E-related occupations	4,338,000	2,654,000	1,685,000	415,000	17,000	479,000	351,000	9,000	2,983,000	84,000	3,914,000	424,000
Non-S&E occupations	21,946,000	11,891,000	10,055,000	2,156,000	59,000	1,346,000	1,817,000	77,000	16,002,000	488,000	19,115,000	2,831,000
Master's	13,260,000	7,359,000	5,901,000	1,038,000	21,000	1,482,000	1,116,000	24,000	9,360,000	219,000	11,716,000	1,545,000
S&E occupations	2,069,000	670,000	1,399,000	119,000	3,000	607,000	98,000	4,000	1,211,000	27,000	1,868,000	201,000
Biological, agricultural, and other life scientists	149,000	75,000	74,000	8,000	D	34,000	6,000	D	98,000	2,000	138,000	11,000
Computer and mathematical scientists	1,039,000	298,000	741,000	38,000	*	411,000	44,000	S	533,000	11,000	945,000	94,000
Physical and related scientists	98,000	39,000	59,000	7,000	D	13,000	3,000	D	73,000	2,000	91,000	7,000
Social and related scientists	235,000	155,000	80,000	24,000	S	18,000	22,000	S	165,000	3,000	207,000	28,000
Engineers	548,000	104,000	445,000	42,000	1,000	132,000	23,000	1,000	342,000	9,000	488,000	61,000
S&E-related occupations	2,262,000	1,405,000	857,000	153,000	3,000	271,000	168,000	5,000	1,623,000	40,000	2,054,000	208,000
Non-S&E occupations	8,929,000	5,284,000	3,645,000	766,000	15,000	604,000	850,000	16,000	6,526,000	152,000	7,793,000	1,136,000
Doctorate	1,796,000	734,000	1,062,000	98,000	5,000	337,000	105,000	2,000	1,220,000	30,000	1,614,000	182,000
S&E occupations	786,000	279,000	507,000	43,000	S	198,000	31,000	D	503,000	9,000	729,000	57,000

TABLE 2-1

**Employed college graduates, by level of highest degree, major occupation, sex, ethnicity, race, and disability status: 2017**

(Number)

Level of highest degree and occupation	Total	Female	Male	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability
					American Indian or Alaska Native	Asian	Black	Native Hawaiian or Other Pacific Islander	White	More than one race		
Biological, agricultural, and other life scientists	217,000	90,000	127,000	11,000	D	62,000	5,000	D	135,000	2,000	203,000	14,000
Computer and mathematical scientists	150,000	46,000	104,000	8,000	D	58,000	5,000	D	79,000	S	143,000	7,000
Physical and related scientists	101,000	19,000	82,000	4,000	D	21,000	2,000	D	72,000	1,000	90,000	11,000
Social and related scientists	201,000	108,000	93,000	12,000	*	15,000	17,000	D	154,000	3,000	185,000	17,000
Engineers	116,000	16,000	101,000	8,000	D	42,000	2,000	D	63,000	2,000	107,000	9,000
S&E-related occupations	267,000	126,000	140,000	22,000	D	62,000	6,000	D	173,000	3,000	238,000	29,000
Non-S&E occupations	743,000	328,000	415,000	33,000	3,000	76,000	68,000	S	544,000	18,000	647,000	96,000
Professional	3,036,000	1,283,000	1,754,000	241,000	S	333,000	165,000	6,000	2,230,000	53,000	2,790,000	246,000
S&E occupations	67,000	37,000	30,000	12,000	D	10,000	2,000	D	42,000	D	61,000	6,000
Biological, agricultural, and other life scientists	15,000	7,000	8,000	1,000	D	6,000	S	D	7,000	D	15,000	D
Computer and mathematical scientists	11,000	S	7,000	D	D	S	D	D	7,000	D	9,000	D
Physical and related scientists	2,000	D	2,000	D	D	D	D	D	2,000	D	2,000	D
Social and related scientists	37,000	25,000	12,000	S	D	1,000	1,000	D	25,000	D	34,000	3,000
Engineers	2,000	D	1,000	D	D	D	D	D	S	D	1,000	D
S&E-related occupations	1,404,000	579,000	825,000	112,000	D	230,000	85,000	D	947,000	21,000	1,326,000	78,000
Non-S&E occupations	1,565,000	667,000	898,000	118,000	2,000	92,000	77,000	S	1,241,000	31,000	1,403,000	162,000

\* = 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.

**Note(s):**

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding. Hispanic or Latino may be any race; race categories exclude Hispanic origin. 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. Those respondents who answered "moderate," "severe," or "unable to do" for an activity were classified as having a disability.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

TABLE 2-2

## Full-time employed college graduates, by major occupation, age, level of highest degree, and sex: 2017

(Number)

Occupation and age	All degrees			Bachelor's			Master's			Doctorate			Professional		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
All occupations, all ages	40,172,000	19,471,000	20,701,000	24,960,000	11,989,000	12,970,000	11,192,000	5,908,000	5,284,000	1,560,000	606,000	954,000	2,460,000	967,000	1,493,000
29 and younger	5,614,000	3,142,000	2,472,000	4,279,000	2,394,000	1,885,000	1,126,000	640,000	485,000	45,000	18,000	27,000	164,000	89,000	75,000
30-39	11,016,000	5,552,000	5,464,000	6,604,000	3,185,000	3,419,000	3,270,000	1,840,000	1,430,000	380,000	154,000	227,000	761,000	374,000	388,000
40-49	9,669,000	4,670,000	4,999,000	5,754,000	2,664,000	3,090,000	2,902,000	1,612,000	1,290,000	417,000	173,000	244,000	596,000	221,000	375,000
50-75	13,872,000	6,106,000	7,766,000	8,322,000	3,746,000	4,576,000	3,894,000	1,816,000	2,078,000	717,000	262,000	456,000	939,000	283,000	655,000
S&E occupations	6,169,000	1,695,000	4,474,000	3,545,000	861,000	2,684,000	1,864,000	569,000	1,295,000	706,000	238,000	468,000	54,000	27,000	27,000
29 and younger	1,066,000	321,000	745,000	761,000	214,000	546,000	276,000	96,000	180,000	28,000	9,000	19,000	D	D	D
30-39	1,857,000	527,000	1,330,000	1,019,000	242,000	777,000	594,000	189,000	405,000	230,000	86,000	144,000	14,000	10,000	4,000
40-49	1,434,000	395,000	1,039,000	813,000	170,000	643,000	421,000	138,000	283,000	187,000	79,000	108,000	13,000	8,000	6,000
50-75	1,811,000	453,000	1,358,000	952,000	234,000	718,000	572,000	146,000	426,000	261,000	64,000	198,000	26,000	9,000	17,000
Biological, agricultural, and other life scientists	556,000	255,000	301,000	208,000	103,000	105,000	133,000	66,000	67,000	202,000	81,000	121,000	12,000	5,000	7,000
29 and younger	129,000	61,000	68,000	96,000	47,000	49,000	23,000	10,000	12,000	10,000	3,000	7,000	D	D	D
30-39	177,000	88,000	89,000	57,000	32,000	25,000	49,000	27,000	21,000	69,000	29,000	40,000	S	D	S
40-49	111,000	53,000	58,000	19,000	7,000	12,000	29,000	15,000	14,000	60,000	29,000	31,000	3,000	S	1,000
50-75	139,000	54,000	85,000	36,000	17,000	19,000	33,000	14,000	19,000	63,000	20,000	43,000	7,000	3,000	4,000
Computer and mathematical scientists	3,183,000	832,000	2,351,000	2,067,000	518,000	1,550,000	966,000	267,000	699,000	139,000	43,000	95,000	11,000	S	7,000
29 and younger	466,000	127,000	339,000	331,000	84,000	247,000	130,000	42,000	88,000	6,000	1,000	5,000	D	D	D
30-39	1,013,000	239,000	774,000	641,000	140,000	501,000	321,000	82,000	239,000	49,000	16,000	33,000	S	D	S
40-49	831,000	210,000	621,000	545,000	120,000	425,000	244,000	70,000	174,000	37,000	17,000	20,000	S	D	D
50-75	873,000	256,000	617,000	551,000	173,000	377,000	271,000	72,000	199,000	46,000	9,000	37,000	5,000	S	4,000
Physical and related scientists	311,000	96,000	214,000	134,000	45,000	89,000	83,000	34,000	49,000	92,000	17,000	76,000	S	D	S
29 and younger	68,000	26,000	42,000	42,000	15,000	27,000	23,000	10,000	13,000	4,000	S	2,000	D	D	D
30-39	74,000	29,000	45,000	27,000	12,000	15,000	21,000	10,000	11,000	25,000	6,000	18,000	D	D	D
40-49	63,000	18,000	45,000	30,000	9,000	20,000	12,000	5,000	7,000	21,000	4,000	17,000	D	D	D
50-75	105,000	23,000	82,000	35,000	9,000	26,000	27,000	9,000	18,000	43,000	5,000	38,000	D	D	D
Social and related scientists	500,000	274,000	226,000	136,000	64,000	S	172,000	111,000	61,000	164,000	82,000	82,000	28,000	17,000	11,000
29 and younger	87,000	37,000	S	S	S	S	22,000	12,000	9,000	5,000	3,000	S	D	D	D
30-39	157,000	98,000	59,000	40,000	19,000	S	60,000	43,000	18,000	47,000	28,000	19,000	9,000	S	1,000
40-49	106,000	71,000	35,000	18,000	14,000	S	39,000	26,000	13,000	44,000	27,000	17,000	6,000	4,000	S
50-75	150,000	67,000	82,000	16,000	8,000	8,000	52,000	30,000	22,000	69,000	25,000	45,000	12,000	4,000	8,000
Engineers	1,619,000	238,000	1,381,000	1,000,000	131,000	869,000	508,000	90,000	418,000	109,000	15,000	94,000	2,000	D	S
29 and younger	314,000	69,000	245,000	231,000	46,000	185,000	79,000	22,000	58,000	4,000	1,000	3,000	D	D	D
30-39	437,000	73,000	364,000	254,000	39,000	215,000	143,000	26,000	116,000	40,000	7,000	33,000	D	D	D
40-49	323,000	43,000	280,000	201,000	19,000	181,000	97,000	21,000	76,000	25,000	3,000	22,000	D	D	D

TABLE 2-2

**Full-time employed college graduates, by major occupation, age, level of highest degree, and sex: 2017**

(Number)

Occupation and age	All degrees			Bachelor's			Master's			Doctorate			Professional		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
50-75	544,000	53,000	492,000	314,000	26,000	288,000	190,000	21,000	169,000	40,000	5,000	35,000	D	D	D
S&E-related occupations	6,803,000	3,632,000	3,172,000	3,512,000	1,986,000	1,526,000	1,945,000	1,136,000	808,000	227,000	99,000	128,000	1,120,000	411,000	709,000
29 and younger	987,000	695,000	291,000	653,000	474,000	180,000	217,000	152,000	65,000	14,000	6,000	8,000	103,000	64,000	39,000
30-39	1,943,000	1,036,000	907,000	1,000,000	542,000	458,000	525,000	310,000	215,000	49,000	21,000	28,000	369,000	163,000	206,000
40-49	1,591,000	776,000	815,000	710,000	347,000	363,000	554,000	301,000	253,000	66,000	23,000	44,000	260,000	105,000	155,000
50-75	2,282,000	1,124,000	1,159,000	1,149,000	623,000	525,000	650,000	373,000	277,000	97,000	48,000	49,000	387,000	79,000	308,000
Non-S&E occupations	27,200,000	14,144,000	13,056,000	17,903,000	9,142,000	8,760,000	7,383,000	4,202,000	3,181,000	627,000	270,000	358,000	1,286,000	530,000	757,000
29 and younger	3,562,000	2,126,000	1,436,000	2,865,000	1,706,000	1,159,000	633,000	392,000	240,000	3,000	3,000	D	60,000	25,000	36,000
30-39	7,216,000	3,989,000	3,226,000	4,586,000	2,402,000	2,184,000	2,151,000	1,340,000	811,000	101,000	46,000	55,000	378,000	201,000	177,000
40-49	6,644,000	3,499,000	3,145,000	4,230,000	2,146,000	2,084,000	1,927,000	1,173,000	754,000	164,000	71,000	93,000	322,000	109,000	214,000
50-75	9,779,000	4,530,000	5,249,000	6,221,000	2,888,000	3,333,000	2,672,000	1,296,000	1,376,000	359,000	150,000	210,000	526,000	195,000	331,000

D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&amp;E = science and engineering.

**Note(s):**

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding. Full-time employed college graduates are individuals working 35 or more hours per week on their principal job.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

TABLE 2-3

## Full-time employed college graduates, by sex, major occupation, age, ethnicity, race, disability status, and citizenship status: 2017

(Number)

Sex, occupation, and age	Total	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	U.S. citizen	Non-U.S. citizen
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
Both sexes, all occupations	40,172,000	3,592,000	107,000	3,871,000	3,245,000	124,000	28,421,000	811,000	35,666,000	4,506,000	38,046,000	2,125,000
29 and younger	5,614,000	669,000	S	579,000	353,000	19,000	3,801,000	186,000	5,114,000	500,000	5,258,000	356,000
30-39	11,016,000	1,114,000	21,000	1,271,000	907,000	32,000	7,358,000	314,000	10,279,000	737,000	10,038,000	978,000
40-49	9,669,000	926,000	30,000	1,065,000	867,000	41,000	6,580,000	159,000	8,645,000	1,024,000	9,175,000	493,000
50-75	13,872,000	883,000	49,000	957,000	1,118,000	32,000	10,682,000	152,000	11,627,000	2,245,000	13,575,000	297,000
S&E occupations	6,169,000	459,000	12,000	1,242,000	357,000	23,000	3,976,000	100,000	5,592,000	577,000	5,305,000	865,000
29 and younger	1,066,000	115,000	S	219,000	41,000	4,000	659,000	27,000	991,000	75,000	888,000	178,000
30-39	1,857,000	164,000	3,000	449,000	108,000	4,000	1,093,000	37,000	1,758,000	99,000	1,415,000	442,000
40-49	1,434,000	101,000	5,000	339,000	76,000	13,000	883,000	17,000	1,312,000	122,000	1,258,000	176,000
50-75	1,811,000	80,000	2,000	235,000	132,000	3,000	1,341,000	19,000	1,532,000	280,000	1,743,000	68,000
Biological, agricultural, and other life scientists	556,000	34,000	*	116,000	19,000	1,000	376,000	9,000	521,000	35,000	461,000	96,000
29 and younger	129,000	7,000	D	26,000	4,000	D	88,000	4,000	124,000	5,000	111,000	18,000
30-39	177,000	15,000	D	39,000	7,000	S	113,000	3,000	170,000	7,000	129,000	48,000
40-49	111,000	5,000	D	24,000	2,000	D	77,000	2,000	102,000	8,000	90,000	21,000
50-75	139,000	7,000	D	27,000	6,000	D	98,000	1,000	124,000	15,000	130,000	10,000
Computer and mathematical scientists	3,183,000	181,000	4,000	786,000	232,000	11,000	1,921,000	48,000	2,904,000	279,000	2,655,000	528,000
29 and younger	466,000	30,000	D	123,000	26,000	S	275,000	11,000	446,000	21,000	365,000	102,000
30-39	1,013,000	72,000	S	296,000	71,000	D	550,000	20,000	962,000	51,000	731,000	282,000
40-49	831,000	46,000	D	245,000	48,000	6,000	476,000	8,000	763,000	68,000	717,000	115,000
50-75	873,000	33,000	D	122,000	86,000	2,000	620,000	9,000	734,000	139,000	843,000	30,000
Physical and related scientists	311,000	26,000	S	43,000	11,000	S	221,000	7,000	282,000	28,000	275,000	35,000
29 and younger	68,000	S	D	13,000	2,000	D	47,000	S	66,000	S	57,000	11,000
30-39	74,000	6,000	D	12,000	4,000	D	49,000	2,000	72,000	2,000	59,000	15,000
40-49	63,000	12,000	D	7,000	S	D	41,000	2,000	56,000	8,000	57,000	6,000
50-75	105,000	5,000	D	11,000	5,000	D	84,000	S	89,000	17,000	101,000	4,000
Social and related scientists	500,000	83,000	S	30,000	37,000	S	342,000	6,000	426,000	74,000	476,000	24,000
29 and younger	87,000	S	D	4,000	2,000	D	39,000	1,000	54,000	S	85,000	2,000
30-39	157,000	24,000	D	9,000	9,000	D	112,000	3,000	144,000	12,000	144,000	13,000
40-49	106,000	12,000	D	9,000	8,000	D	77,000	*	97,000	10,000	101,000	5,000
50-75	150,000	8,000	*	8,000	18,000	D	113,000	2,000	131,000	19,000	146,000	4,000
Engineers	1,619,000	135,000	5,000	267,000	58,000	8,000	1,116,000	30,000	1,459,000	160,000	1,438,000	181,000
29 and younger	314,000	34,000	D	53,000	7,000	D	210,000	9,000	300,000	14,000	269,000	46,000

TABLE 2-3

## Full-time employed college graduates, by sex, major occupation, age, ethnicity, race, disability status, and citizenship status: 2017

(Number)

Sex, occupation, and age	Total	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	U.S. citizen	Non-U.S. citizen
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
30-39	437,000	47,000	D	93,000	17,000	*	269,000	9,000	410,000	27,000	351,000	86,000
40-49	323,000	27,000	S	54,000	17,000	6,000	212,000	5,000	295,000	29,000	293,000	30,000
50-75	544,000	27,000	D	67,000	17,000	D	426,000	7,000	454,000	90,000	524,000	20,000
S&E-related occupations	6,803,000	595,000	21,000	890,000	539,000	15,000	4,619,000	124,000	6,217,000	586,000	6,417,000	386,000
29 and younger	987,000	96,000	1,000	135,000	71,000	S	658,000	25,000	945,000	42,000	920,000	67,000
30-39	1,943,000	150,000	S	290,000	165,000	5,000	1,269,000	55,000	1,853,000	90,000	1,774,000	170,000
40-49	1,591,000	164,000	4,000	241,000	129,000	6,000	1,026,000	21,000	1,469,000	122,000	1,489,000	102,000
50-75	2,282,000	185,000	S	223,000	174,000	S	1,666,000	23,000	1,950,000	332,000	2,235,000	47,000
Non-S&E occupations	27,200,000	2,538,000	75,000	1,739,000	2,349,000	87,000	19,826,000	586,000	23,856,000	3,344,000	26,325,000	875,000
29 and younger	3,562,000	459,000	S	224,000	241,000	15,000	2,484,000	134,000	3,179,000	383,000	3,451,000	111,000
30-39	7,216,000	800,000	9,000	532,000	633,000	23,000	4,996,000	222,000	6,668,000	548,000	6,849,000	366,000
40-49	6,644,000	661,000	21,000	484,000	663,000	23,000	4,671,000	121,000	5,864,000	780,000	6,428,000	215,000
50-75	9,779,000	618,000	39,000	499,000	812,000	26,000	7,675,000	110,000	8,145,000	1,634,000	9,596,000	182,000
Female, all occupations	19,471,000	1,923,000	57,000	1,743,000	1,905,000	55,000	13,316,000	471,000	17,431,000	2,040,000	18,740,000	731,000
29 and younger	3,142,000	415,000	1,000	311,000	228,000	16,000	2,080,000	92,000	2,895,000	247,000	2,999,000	143,000
30-39	5,552,000	637,000	15,000	573,000	518,000	11,000	3,595,000	204,000	5,189,000	363,000	5,188,000	364,000
40-49	4,670,000	476,000	13,000	460,000	539,000	14,000	3,061,000	108,000	4,162,000	508,000	4,535,000	135,000
50-75	6,106,000	395,000	27,000	399,000	621,000	16,000	4,580,000	68,000	5,184,000	922,000	6,017,000	90,000
S&E occupations	1,695,000	136,000	3,000	369,000	155,000	4,000	996,000	33,000	1,570,000	125,000	1,481,000	214,000
29 and younger	321,000	27,000	D	79,000	15,000	D	188,000	10,000	311,000	10,000	264,000	57,000
30-39	527,000	57,000	S	129,000	43,000	1,000	282,000	13,000	496,000	31,000	421,000	106,000
40-49	395,000	25,000	*	108,000	27,000	S	231,000	4,000	371,000	24,000	357,000	38,000
50-75	453,000	27,000	D	53,000	71,000	S	295,000	5,000	392,000	61,000	440,000	13,000
Biological, agricultural, and other life scientists	255,000	21,000	D	48,000	9,000	S	173,000	4,000	242,000	13,000	219,000	37,000
29 and younger	61,000	4,000	D	11,000	S	D	41,000	2,000	58,000	S	54,000	7,000
30-39	88,000	10,000	D	18,000	3,000	S	56,000	S	85,000	3,000	69,000	19,000
40-49	53,000	2,000	D	8,000	1,000	D	40,000	S	49,000	3,000	45,000	8,000
50-75	54,000	5,000	D	11,000	2,000	D	36,000	D	50,000	4,000	50,000	3,000
Computer and mathematical scientists	832,000	45,000	S	237,000	102,000	S	432,000	13,000	771,000	60,000	709,000	122,000
29 and younger	127,000	8,000	D	47,000	6,000	D	62,000	3,000	125,000	2,000	93,000	34,000
30-39	239,000	15,000	D	85,000	29,000	D	103,000	6,000	225,000	14,000	178,000	62,000
40-49	210,000	9,000	D	80,000	16,000	D	102,000	2,000	200,000	10,000	188,000	22,000



TABLE 2-3

## Full-time employed college graduates, by sex, major occupation, age, ethnicity, race, disability status, and citizenship status: 2017

(Number)

Sex, occupation, and age	Total	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	U.S. citizen	Non-U.S. citizen
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
50–75	256,000	13,000	D	25,000	50,000	D	164,000	S	221,000	35,000	251,000	5,000
Physical and related scientists	96,000	9,000	D	14,000	5,000	*	64,000	4,000	85,000	12,000	86,000	10,000
29 and younger	26,000	S	D	5,000	D	D	16,000	S	25,000	S	22,000	4,000
30–39	29,000	3,000	D	4,000	2,000	D	18,000	2,000	28,000	1,000	25,000	4,000
40–49	18,000	2,000	D	2,000	D	D	13,000	D	15,000	3,000	17,000	1,000
50–75	23,000	S	D	3,000	3,000	D	16,000	D	17,000	6,000	23,000	D
Social and related scientists	274,000	39,000	*	20,000	28,000	D	182,000	4,000	246,000	28,000	262,000	12,000
29 and younger	37,000	5,000	D	3,000	1,000	D	27,000	1,000	36,000	S	37,000	S
30–39	98,000	21,000	D	6,000	7,000	D	62,000	2,000	89,000	9,000	90,000	8,000
40–49	71,000	9,000	D	7,000	6,000	D	48,000	*	66,000	6,000	70,000	2,000
50–75	67,000	3,000	D	4,000	14,000	D	45,000	S	55,000	12,000	66,000	1,000
Engineers	238,000	22,000	D	50,000	11,000	D	145,000	8,000	226,000	12,000	205,000	33,000
29 and younger	69,000	8,000	D	14,000	3,000	D	42,000	S	66,000	3,000	58,000	11,000
30–39	73,000	8,000	D	16,000	3,000	D	43,000	3,000	69,000	4,000	59,000	14,000
40–49	43,000	3,000	D	11,000	3,000	D	26,000	D	42,000	S	37,000	6,000
50–75	53,000	4,000	D	10,000	3,000	D	34,000	D	49,000	3,000	50,000	2,000
S&E-related occupations	3,632,000	352,000	11,000	438,000	306,000	8,000	2,435,000	81,000	3,355,000	277,000	3,478,000	154,000
29 and younger	695,000	74,000	S	84,000	51,000	D	466,000	20,000	674,000	22,000	660,000	35,000
30–39	1,036,000	106,000	S	149,000	70,000	4,000	663,000	36,000	982,000	55,000	965,000	71,000
40–49	776,000	81,000	D	104,000	81,000	S	494,000	14,000	727,000	49,000	752,000	24,000
50–75	1,124,000	92,000	S	102,000	103,000	S	811,000	11,000	973,000	151,000	1,101,000	23,000
Non-S&E occupations	14,144,000	1,435,000	43,000	936,000	1,444,000	43,000	9,885,000	357,000	12,506,000	1,638,000	13,781,000	363,000
29 and younger	2,126,000	314,000	1,000	147,000	162,000	14,000	1,426,000	62,000	1,911,000	216,000	2,075,000	51,000
30–39	3,989,000	474,000	5,000	296,000	404,000	6,000	2,649,000	155,000	3,711,000	278,000	3,803,000	186,000
40–49	3,499,000	371,000	S	248,000	431,000	S	2,337,000	89,000	3,065,000	434,000	3,427,000	72,000
50–75	4,530,000	277,000	25,000	245,000	446,000	S	3,474,000	51,000	3,819,000	710,000	4,476,000	54,000
Male, all occupations	20,701,000	1,669,000	50,000	2,128,000	1,339,000	69,000	15,106,000	339,000	18,234,000	2,467,000	19,307,000	1,394,000
29 and younger	2,472,000	255,000	S	268,000	125,000	4,000	1,721,000	94,000	2,219,000	253,000	2,259,000	214,000
30–39	5,464,000	477,000	6,000	698,000	389,000	22,000	3,764,000	110,000	5,090,000	374,000	4,850,000	614,000
40–49	4,999,000	450,000	17,000	605,000	328,000	28,000	3,519,000	52,000	4,483,000	516,000	4,640,000	358,000
50–75	7,766,000	487,000	21,000	558,000	498,000	16,000	6,102,000	84,000	6,443,000	1,323,000	7,558,000	208,000
S&E occupations	4,474,000	324,000	9,000	873,000	201,000	18,000	2,981,000	68,000	4,022,000	452,000	3,823,000	650,000
29 and younger	745,000	88,000	S	140,000	27,000	S	471,000	16,000	680,000	66,000	624,000	121,000

TABLE 2-3

## Full-time employed college graduates, by sex, major occupation, age, ethnicity, race, disability status, and citizenship status: 2017

(Number)

Sex, occupation, and age	Total	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	U.S. citizen	Non-U.S. citizen
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
30-39	1,330,000	107,000	2,000	320,000	65,000	3,000	811,000	24,000	1,262,000	69,000	994,000	336,000
40-49	1,039,000	76,000	S	232,000	49,000	12,000	653,000	13,000	941,000	98,000	901,000	138,000
50-75	1,358,000	53,000	1,000	182,000	61,000	1,000	1,046,000	14,000	1,139,000	219,000	1,303,000	55,000
Biological, agricultural, and other life scientists	301,000	13,000	*	68,000	10,000	*	204,000	5,000	278,000	22,000	242,000	59,000
29 and younger	68,000	3,000	D	15,000	1,000	D	47,000	S	66,000	S	57,000	11,000
30-39	89,000	5,000	D	21,000	S	D	57,000	2,000	85,000	4,000	60,000	29,000
40-49	58,000	3,000	D	16,000	1,000	D	37,000	S	53,000	5,000	45,000	13,000
50-75	85,000	3,000	D	16,000	4,000	D	62,000	D	74,000	12,000	79,000	6,000
Computer and mathematical scientists	2,351,000	136,000	S	550,000	130,000	9,000	1,489,000	35,000	2,133,000	218,000	1,945,000	406,000
29 and younger	339,000	22,000	D	76,000	20,000	D	214,000	8,000	321,000	18,000	272,000	68,000
30-39	774,000	57,000	S	211,000	42,000	D	446,000	14,000	736,000	37,000	553,000	220,000
40-49	621,000	37,000	D	165,000	32,000	D	374,000	7,000	563,000	59,000	529,000	93,000
50-75	617,000	20,000	D	97,000	36,000	D	456,000	7,000	513,000	104,000	592,000	25,000
Physical and related scientists	214,000	18,000	S	28,000	6,000	D	158,000	3,000	198,000	17,000	189,000	25,000
29 and younger	42,000	1,000	D	8,000	1,000	D	31,000	D	41,000	S	36,000	7,000
30-39	45,000	3,000	D	8,000	2,000	D	31,000	1,000	44,000	1,000	34,000	11,000
40-49	45,000	10,000	D	5,000	D	D	28,000	D	41,000	4,000	40,000	5,000
50-75	82,000	3,000	D	8,000	2,000	D	68,000	D	71,000	11,000	79,000	3,000
Social and related scientists	226,000	S	S	10,000	9,000	D	160,000	2,000	180,000	S	214,000	12,000
29 and younger	S	S	D	S	S	D	12,000	D	18,000	S	S	S
30-39	59,000	3,000	D	3,000	S	D	50,000	1,000	55,000	4,000	54,000	5,000
40-49	35,000	2,000	D	2,000	S	D	28,000	D	31,000	4,000	31,000	3,000
50-75	82,000	4,000	D	4,000	5,000	D	69,000	1,000	76,000	6,000	80,000	2,000
Engineers	1,381,000	113,000	3,000	217,000	47,000	8,000	971,000	23,000	1,233,000	148,000	1,233,000	149,000
29 and younger	245,000	27,000	D	40,000	4,000	D	168,000	6,000	234,000	12,000	211,000	35,000
30-39	364,000	39,000	D	77,000	15,000	*	226,000	6,000	341,000	23,000	292,000	72,000
40-49	280,000	24,000	S	43,000	14,000	6,000	186,000	5,000	253,000	27,000	256,000	24,000
50-75	492,000	23,000	D	57,000	14,000	D	391,000	5,000	405,000	87,000	474,000	18,000
S&E-related occupations	3,172,000	243,000	10,000	452,000	233,000	7,000	2,184,000	43,000	2,862,000	309,000	2,940,000	232,000
29 and younger	291,000	22,000	D	51,000	20,000	S	192,000	6,000	271,000	20,000	259,000	32,000
30-39	907,000	44,000	S	142,000	95,000	1,000	606,000	19,000	872,000	36,000	809,000	98,000

TABLE 2-3

**Full-time employed college graduates, by sex, major occupation, age, ethnicity, race, disability status, and citizenship status: 2017**

(Number)

Sex, occupation, and age	Total	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	U.S. citizen	Non-U.S. citizen
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
40–49	815,000	84,000	3,000	138,000	47,000	S	532,000	6,000	742,000	72,000	737,000	78,000
50–75	1,159,000	93,000	S	122,000	71,000	1,000	855,000	12,000	978,000	181,000	1,134,000	24,000
Non-S&E occupations	13,056,000	1,103,000	31,000	803,000	905,000	44,000	9,941,000	229,000	11,350,000	1,706,000	12,544,000	512,000
29 and younger	1,436,000	145,000	S	77,000	78,000	S	1,058,000	72,000	1,268,000	167,000	1,375,000	60,000
30–39	3,226,000	326,000	4,000	236,000	229,000	18,000	2,347,000	67,000	2,957,000	270,000	3,046,000	180,000
40–49	3,145,000	290,000	9,000	236,000	232,000	S	2,334,000	32,000	2,799,000	346,000	3,002,000	143,000
50–75	5,249,000	341,000	14,000	254,000	366,000	14,000	4,201,000	59,000	4,326,000	923,000	5,121,000	128,000

\* = 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.

**Note(s):**

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding. Full-time employed college graduates are individuals working 35 or more hours per week on their principal job. Hispanic or Latino may be any race; race categories exclude Hispanic origin. 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. Those respondents who answered "moderate," "severe," or "unable to do" for an activity were classified as having a disability.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

TABLE 2-4

**Employed college graduates, by minor occupation and major field of highest degree: 2017**

(Number)

Occupation	Total	S&E fields						S&E-related fields	Non-S&E fields
		Total	Biological, agricultural, and environmental life sciences	Computer and mathematical sciences	Physical and related sciences	Social and related sciences	Engineering		
All college graduates	48,223,000	14,501,000	2,290,000	2,567,000	814,000	5,336,000	3,494,000	6,870,000	26,852,000
S&E occupations	6,769,000	5,085,000	633,000	1,437,000	366,000	679,000	1,970,000	382,000	1,301,000
Biological, agricultural, and other life scientists	610,000	506,000	416,000	4,000	38,000	18,000	30,000	71,000	33,000
Agricultural and food scientists	41,000	38,000	34,000	D	2,000	*	1,000	S	3,000
Biological and medical scientists	455,000	370,000	298,000	3,000	33,000	11,000	26,000	63,000	22,000
Environmental life scientists	27,000	22,000	17,000	D	D	S	*	D	5,000
Postsecondary teachers - life and related sciences	87,000	76,000	67,000	D	3,000	S	4,000	8,000	3,000
Computer and mathematical scientists	3,419,000	2,365,000	95,000	1,373,000	62,000	234,000	601,000	180,000	874,000
Computer and information scientists	3,096,000	2,165,000	75,000	1,255,000	55,000	202,000	578,000	157,000	774,000
Mathematical scientists	209,000	112,000	17,000	47,000	4,000	30,000	14,000	10,000	87,000
Postsecondary teachers - computer and math sciences	114,000	88,000	3,000	71,000	3,000	3,000	9,000	14,000	13,000
Physical and related scientists	366,000	330,000	81,000	2,000	217,000	8,000	22,000	12,000	24,000
Chemists, except biochemists	109,000	102,000	26,000	*	71,000	D	4,000	3,000	4,000
Earth scientists, geologists and oceanographers	69,000	67,000	4,000	S	57,000	1,000	3,000	D	2,000
Physicists and astronomers	42,000	41,000	D	D	33,000	D	6,000	1,000	D
Other physical and related scientists	65,000	42,000	23,000	D	8,000	3,000	8,000	6,000	17,000
Postsecondary teachers - physical and related sciences	81,000	79,000	27,000	D	48,000	S	2,000	S	S
Social and related scientists	646,000	416,000	11,000	8,000	2,000	391,000	4,000	27,000	203,000
Economists	47,000	42,000	S	1,000	D	39,000	D	1,000	5,000
Political scientists	33,000	15,000	D	D	D	14,000	D	D	17,000
Psychologists	199,000	170,000	3,000	D	D	166,000	D	8,000	21,000
Sociologists and anthropologists	24,000	21,000	D	D	D	21,000	D	D	2,000

TABLE 2-4

**Employed college graduates, by minor occupation and major field of highest degree: 2017**

(Number)

Occupation	Total	S&E fields					S&E-related fields	Non-S&E fields	
		Total	Biological, agricultural, and environmental life sciences	Computer and mathematical sciences	Physical and related sciences	Social and related sciences			Engineering
Other social and related scientists	159,000	42,000	3,000	5,000	S	29,000	3,000	16,000	101,000
Postsecondary teachers - social and related sciences	183,000	125,000	D	1,000	D	123,000	D	2,000	56,000
Engineers	1,728,000	1,468,000	30,000	51,000	47,000	28,000	1,312,000	92,000	168,000
Aerospace, aeronautical, and astronautical engineers	132,000	108,000	D	5,000	6,000	D	94,000	5,000	18,000
Chemical engineers	93,000	86,000	1,000	D	5,000	D	80,000	S	5,000
Civil, architectural, and sanitary engineers	264,000	238,000	5,000	3,000	S	1,000	227,000	9,000	17,000
Electrical and computer hardware engineers	374,000	330,000	D	21,000	7,000	S	297,000	19,000	26,000
Industrial engineers	88,000	60,000	S	1,000	3,000	D	51,000	10,000	18,000
Mechanical engineers	313,000	274,000	D	4,000	2,000	1,000	265,000	15,000	24,000
Other engineers	406,000	322,000	20,000	15,000	21,000	14,000	252,000	31,000	53,000
Postsecondary teachers - engineering	59,000	50,000	S	D	2,000	D	46,000	S	6,000
S&E-related occupations	8,271,000	1,997,000	635,000	307,000	159,000	366,000	531,000	4,796,000	1,479,000
Health-related occupations	5,181,000	643,000	377,000	18,000	38,000	192,000	17,000	4,017,000	522,000
S&E managers	1,048,000	523,000	65,000	104,000	39,000	51,000	264,000	315,000	210,000
S&E precollege teachers	961,000	247,000	76,000	56,000	34,000	68,000	13,000	187,000	527,000
S&E technicians and technologists	837,000	539,000	113,000	111,000	47,000	42,000	226,000	99,000	200,000
Other S&E-related occupations	244,000	45,000	D	18,000	D	12,000	11,000	178,000	20,000
Non-S&E occupations	33,183,000	7,418,000	1,022,000	823,000	289,000	4,291,000	993,000	1,693,000	24,072,000
Non-S&E managers	4,510,000	1,221,000	167,000	164,000	69,000	525,000	297,000	271,000	3,018,000
Management-related occupations	6,428,000	1,456,000	180,000	221,000	42,000	800,000	213,000	288,000	4,684,000
Non-S&E precollege teachers	4,093,000	418,000	33,000	41,000	19,000	316,000	9,000	152,000	3,522,000

TABLE 2-4

**Employed college graduates, by minor occupation and major field of highest degree: 2017**

(Number)

Occupation	Total	S&E fields						S&E-related fields	Non-S&E fields
		Total	Biological, agricultural, and environmental life sciences	Computer and mathematical sciences	Physical and related sciences	Social and related sciences	Engineering		
Non-S&E postsecondary teachers	634,000	82,000	4,000	8,000	S	61,000	5,000	61,000	491,000
Social services and related occupations	1,908,000	524,000	23,000	10,000	S	483,000	6,000	137,000	1,247,000
Sales and marketing occupations	4,353,000	1,025,000	155,000	105,000	38,000	603,000	124,000	209,000	3,119,000
Art, humanities, and related occupations	1,439,000	252,000	22,000	16,000	11,000	179,000	23,000	30,000	1,158,000
Other non-S&E occupations	9,818,000	2,441,000	438,000	258,000	104,000	1,325,000	316,000	544,000	6,833,000

\* = 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.

**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, 2017.

TABLE 2-5

**Employed college graduates, by major occupation, sex, ethnicity, race, disability status, and detailed employment sector: 2017**

(Number)

Occupation, sex, ethnicity, race, and disability status	Total	Business or industry				Education			Government		
		Total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Total	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Total	Federal government	State or local government
All occupations	48,223,000	33,510,000	25,483,000	4,800,000	3,227,000	9,905,000	3,056,000	6,849,000	4,808,000	1,934,000	2,874,000
Female	24,900,000	15,660,000	10,764,000	3,273,000	1,622,000	6,961,000	1,769,000	5,193,000	2,279,000	803,000	1,477,000
Male	23,323,000	17,850,000	14,719,000	1,526,000	1,605,000	2,944,000	1,288,000	1,656,000	2,529,000	1,132,000	1,397,000
Hispanic or Latino	4,280,000	2,790,000	2,199,000	368,000	223,000	976,000	206,000	770,000	514,000	192,000	321,000
Not Hispanic or Latino											
American Indian or Alaska Native	121,000	58,000	43,000	9,000	6,000	32,000	13,000	20,000	31,000	13,000	18,000
Asian	4,498,000	3,458,000	2,920,000	358,000	179,000	637,000	417,000	220,000	403,000	159,000	244,000
Black or African American	3,805,000	2,196,000	1,616,000	451,000	129,000	865,000	237,000	628,000	745,000	308,000	437,000
Native Hawaiian or Other Pacific Islander	137,000	99,000	64,000	24,000	S	18,000	12,000	5,000	21,000	3,000	18,000
White	34,435,000	24,278,000	18,157,000	3,490,000	2,630,000	7,162,000	2,111,000	5,051,000	2,995,000	1,204,000	1,791,000
More than one race	946,000	632,000	483,000	100,000	50,000	215,000	60,000	154,000	99,000	55,000	44,000
Without disability	42,610,000	29,679,000	22,592,000	4,315,000	2,771,000	8,703,000	2,738,000	5,965,000	4,228,000	1,656,000	2,573,000
With disability	5,613,000	3,832,000	2,891,000	485,000	456,000	1,202,000	319,000	883,000	580,000	279,000	301,000
S&E occupations	6,769,000	4,888,000	4,317,000	360,000	211,000	1,096,000	880,000	216,000	785,000	415,000	370,000
Female	1,966,000	1,217,000	983,000	154,000	80,000	474,000	364,000	110,000	275,000	140,000	134,000
Male	4,803,000	3,671,000	3,334,000	206,000	131,000	622,000	516,000	106,000	510,000	275,000	235,000
Hispanic or Latino	505,000	354,000	307,000	29,000	17,000	72,000	55,000	17,000	80,000	33,000	47,000
Not Hispanic or Latino											
American Indian or Alaska Native	14,000	8,000	7,000	D	D	S	S	S	2,000	S	1,000
Asian	1,338,000	1,025,000	954,000	49,000	22,000	217,000	198,000	19,000	97,000	45,000	52,000
Black or African American	382,000	240,000	221,000	15,000	5,000	56,000	44,000	12,000	86,000	45,000	41,000
Native Hawaiian or Other Pacific Islander	23,000	17,000	16,000	D	D	3,000	S	D	4,000	2,000	2,000
White	4,397,000	3,168,000	2,745,000	262,000	160,000	727,000	565,000	163,000	501,000	281,000	220,000
More than one race	109,000	77,000	65,000	4,000	7,000	16,000	14,000	2,000	16,000	8,000	8,000
Without disability	6,120,000	4,441,000	3,917,000	337,000	187,000	986,000	793,000	194,000	693,000	361,000	331,000
With disability	649,000	447,000	400,000	23,000	24,000	109,000	87,000	22,000	93,000	54,000	39,000
Biological, agricultural, and other life scientists	610,000	266,000	196,000	62,000	8,000	240,000	222,000	19,000	104,000	60,000	43,000
Female	292,000	124,000	90,000	30,000	3,000	121,000	109,000	12,000	47,000	27,000	20,000
Male	319,000	143,000	106,000	32,000	5,000	120,000	113,000	7,000	57,000	34,000	23,000

TABLE 2-5

**Employed college graduates, by major occupation, sex, ethnicity, race, disability status, and detailed employment sector: 2017**

(Number)

Occupation, sex, ethnicity, race, and disability status	Total	Business or industry				Education			Government		
		Total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Total	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Total	Federal government	State or local government
Hispanic or Latino	38,000	17,000	12,000	4,000	D	16,000	15,000	2,000	5,000	3,000	2,000
Not Hispanic or Latino											
American Indian or Alaska Native	S	D	D	D	D	D	D	D	*	D	D
Asian	126,000	50,000	34,000	14,000	D	59,000	59,000	S	17,000	11,000	5,000
Black or African American	20,000	8,000	8,000	S	D	6,000	6,000	D	5,000	2,000	S
Native Hawaiian or Other Pacific Islander	1,000	*	*	D	D	D	D	D	D	D	D
White	415,000	187,000	137,000	43,000	6,000	154,000	138,000	16,000	74,000	43,000	31,000
More than one race	9,000	4,000	4,000	D	D	3,000	3,000	D	S	1,000	S
Without disability	570,000	251,000	184,000	60,000	7,000	222,000	206,000	16,000	96,000	56,000	40,000
With disability	41,000	15,000	12,000	3,000	1,000	18,000	16,000	3,000	7,000	4,000	3,000
Computer and mathematical scientists	3,419,000	2,827,000	2,516,000	215,000	97,000	300,000	211,000	88,000	292,000	147,000	146,000
Female	919,000	706,000	588,000	89,000	28,000	109,000	67,000	42,000	104,000	56,000	49,000
Male	2,500,000	2,122,000	1,927,000	126,000	69,000	191,000	144,000	47,000	188,000	91,000	97,000
Hispanic or Latino	200,000	158,000	134,000	13,000	10,000	19,000	15,000	4,000	23,000	11,000	12,000
Not Hispanic or Latino											
American Indian or Alaska Native	4,000	2,000	1,000	D	D	D	D	D	D	D	D
Asian	840,000	728,000	687,000	27,000	14,000	66,000	52,000	14,000	47,000	19,000	28,000
Black or African American	242,000	175,000	161,000	11,000	S	13,000	9,000	4,000	54,000	26,000	28,000
Native Hawaiian or Other Pacific Islander	12,000	10,000	10,000	D	D	D	D	D	2,000	D	D
White	2,070,000	1,713,000	1,488,000	160,000	65,000	196,000	132,000	63,000	161,000	86,000	75,000
More than one race	52,000	43,000	35,000	3,000	6,000	4,000	3,000	1,000	5,000	3,000	S
Without disability	3,112,000	2,594,000	2,308,000	200,000	86,000	270,000	193,000	78,000	248,000	113,000	135,000
With disability	307,000	233,000	207,000	15,000	11,000	30,000	19,000	11,000	45,000	33,000	11,000
Physical and related scientists	366,000	154,000	141,000	7,000	7,000	136,000	109,000	26,000	76,000	42,000	35,000
Female	107,000	49,000	45,000	3,000	1,000	31,000	29,000	2,000	27,000	11,000	15,000
Male	259,000	105,000	95,000	4,000	5,000	104,000	81,000	24,000	50,000	30,000	19,000





TABLE 2-5

**Employed college graduates, by major occupation, sex, ethnicity, race, disability status, and detailed employment sector: 2017**

(Number)

Occupation, sex, ethnicity, race, and disability status	Total	Business or industry				Education			Government		
		Total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Total	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Total	Federal government	State or local government
American Indian or Alaska Native	5,000	4,000	4,000	D	D	D	D	D	D	D	D
Asian	283,000	217,000	211,000	3,000	3,000	41,000	41,000	1,000	24,000	10,000	14,000
Black or African American	62,000	46,000	45,000	S	D	4,000	3,000	D	11,000	5,000	6,000
Native Hawaiian or Other Pacific Islander	8,000	6,000	6,000	D	D	D	D	D	D	D	D
White	1,196,000	975,000	917,000	22,000	35,000	67,000	63,000	4,000	154,000	86,000	68,000
More than one race	31,000	23,000	23,000	D	*	2,000	2,000	D	6,000	4,000	2,000
Without disability	1,548,000	1,248,000	1,184,000	28,000	36,000	108,000	103,000	6,000	191,000	105,000	87,000
With disability	180,000	139,000	130,000	4,000	5,000	14,000	14,000	D	27,000	10,000	16,000
S&E-related occupations	8,271,000	5,869,000	3,842,000	1,656,000	371,000	1,759,000	595,000	1,165,000	643,000	314,000	330,000
Female	4,764,000	3,318,000	1,904,000	1,205,000	209,000	1,101,000	370,000	731,000	346,000	141,000	205,000
Male	3,507,000	2,551,000	1,938,000	451,000	162,000	658,000	225,000	434,000	298,000	173,000	125,000
Hispanic or Latino	702,000	489,000	339,000	106,000	44,000	137,000	45,000	93,000	75,000	31,000	45,000
Not Hispanic or Latino											
American Indian or Alaska Native	28,000	13,000	7,000	S	D	S	D	1,000	S	S	S
Asian	1,042,000	812,000	587,000	192,000	33,000	146,000	106,000	40,000	84,000	43,000	41,000
Black or African American	610,000	422,000	253,000	155,000	14,000	107,000	20,000	87,000	81,000	46,000	35,000
Native Hawaiian or Other Pacific Islander	16,000	9,000	4,000	5,000	D	S	S	1,000	S	D	S
White	5,726,000	4,026,000	2,599,000	1,154,000	273,000	1,325,000	406,000	919,000	375,000	180,000	195,000
More than one race	147,000	97,000	53,000	40,000	5,000	35,000	11,000	24,000	15,000	6,000	8,000
Without disability	7,532,000	5,358,000	3,489,000	1,550,000	320,000	1,596,000	557,000	1,039,000	579,000	275,000	304,000
With disability	739,000	511,000	353,000	106,000	51,000	164,000	38,000	126,000	65,000	39,000	26,000
Non-S&E occupations	33,183,000	22,753,000	17,324,000	2,783,000	2,646,000	7,050,000	1,582,000	5,468,000	3,379,000	1,205,000	2,174,000
Female	18,170,000	11,125,000	7,877,000	1,914,000	1,333,000	5,386,000	1,035,000	4,352,000	1,658,000	521,000	1,138,000
Male	15,013,000	11,628,000	9,447,000	869,000	1,312,000	1,664,000	547,000	1,117,000	1,721,000	684,000	1,037,000
Hispanic or Latino	3,073,000	1,947,000	1,552,000	232,000	162,000	767,000	106,000	661,000	359,000	128,000	230,000
Not Hispanic or Latino											
American Indian or Alaska Native	80,000	37,000	29,000	4,000	4,000	23,000	S	17,000	20,000	S	15,000
Asian	2,118,000	1,622,000	1,379,000	118,000	125,000	274,000	113,000	161,000	223,000	71,000	151,000

TABLE 2-5

**Employed college graduates, by major occupation, sex, ethnicity, race, disability status, and detailed employment sector: 2017**

(Number)

Occupation, sex, ethnicity, race, and disability status	Total	Business or industry				Education			Government		
		Total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Total	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Total	Federal government	State or local government
Black or African American	2,813,000	1,533,000	1,142,000	281,000	110,000	702,000	174,000	528,000	577,000	217,000	360,000
Native Hawaiian or Other Pacific Islander	97,000	73,000	43,000	19,000	S	11,000	S	4,000	14,000	S	13,000
White	24,313,000	17,084,000	12,813,000	2,074,000	2,197,000	5,109,000	1,140,000	3,969,000	2,119,000	743,000	1,376,000
More than one race	689,000	458,000	365,000	56,000	37,000	163,000	35,000	128,000	68,000	40,000	28,000
Without disability	28,958,000	19,880,000	15,187,000	2,428,000	2,264,000	6,121,000	1,388,000	4,733,000	2,957,000	1,019,000	1,938,000
With disability	4,225,000	2,874,000	2,137,000	355,000	381,000	929,000	194,000	736,000	422,000	186,000	237,000

\* = 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> Includes medical schools and university-affiliated research institutes.

**Note(s):**

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding. Hispanic or Latino may be any race; race categories exclude Hispanic origin. 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. Those respondents who answered "moderate," "severe," or "unable to do" for an activity were classified as having a disability.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

TABLE 2-6

**Employed college graduates, by level of highest degree, major occupation, possession of a certification or license, and primary field of certification or license: 2017**

(Number)

Level of highest degree and occupation	Total	Obtained a certification or license for work-related reasons	Primary field of certification or license										
			Computer applications and design	Computer networking, administration, and security	Other information technologies and computers	Mathematics, statistics, and data analytics	Life sciences	Physical sciences	Social sciences	Engineering	S&E-related	Non-S&E	Uncodeable or missing
All degree levels	48,223,000	19,714,000	175,000	302,000	181,000	37,000	101,000	91,000	233,000	588,000	5,391,000	12,167,000	449,000
S&E occupations	6,769,000	1,507,000	119,000	220,000	116,000	4,000	23,000	43,000	124,000	350,000	122,000	354,000	31,000
Biological, agricultural, and other life scientists	610,000	93,000	D	D	D	D	15,000	11,000	D	S	43,000	19,000	2,000
Computer and mathematical scientists	3,419,000	682,000	112,000	206,000	110,000	1,000	D	2,000	6,000	12,000	49,000	164,000	19,000
Physical and related scientists	366,000	52,000	D	D	D	D	7,000	22,000	D	3,000	10,000	8,000	1,000
Social and related scientists	646,000	230,000	D	D	D	D	D	D	115,000	D	12,000	99,000	2,000
Engineers	1,728,000	449,000	4,000	14,000	5,000	D	D	8,000	2,000	334,000	8,000	64,000	8,000
S&E-related occupations	8,271,000	6,134,000	24,000	29,000	19,000	29,000	18,000	21,000	29,000	124,000	4,580,000	1,142,000	119,000
Non-S&E occupations	33,183,000	12,073,000	32,000	52,000	46,000	4,000	59,000	27,000	80,000	114,000	688,000	10,670,000	300,000
Bachelor's	30,131,000	10,178,000	115,000	221,000	121,000	32,000	71,000	43,000	51,000	384,000	2,720,000	6,166,000	254,000
S&E occupations	3,846,000	824,000	83,000	162,000	79,000	D	10,000	18,000	6,000	223,000	77,000	148,000	13,000
Biological, agricultural, and other life scientists	230,000	41,000	D	D	D	D	7,000	4,000	D	D	22,000	8,000	S
Computer and mathematical scientists	2,219,000	446,000	80,000	154,000	74,000	D	D	S	D	7,000	39,000	82,000	7,000
Physical and related scientists	164,000	25,000	D	D	D	D	4,000	8,000	D	1,000	9,000	3,000	D
Social and related scientists	172,000	21,000	D	D	D	D	D	D	4,000	D	D	16,000	D
Engineers	1,061,000	290,000	3,000	9,000	4,000	D	D	5,000	D	215,000	7,000	39,000	5,000
S&E-related occupations	4,338,000	3,000,000	10,000	19,000	11,000	26,000	13,000	9,000	S	88,000	2,243,000	524,000	52,000
Non-S&E occupations	21,946,000	6,355,000	21,000	40,000	32,000	S	48,000	16,000	38,000	73,000	400,000	5,494,000	190,000
Master's	13,260,000	6,363,000	57,000	77,000	56,000	5,000	25,000	39,000	86,000	182,000	1,180,000	4,520,000	136,000
S&E occupations	2,069,000	520,000	34,000	56,000	34,000	S	12,000	19,000	41,000	110,000	24,000	173,000	15,000

TABLE 2-6

**Employed college graduates, by level of highest degree, major occupation, possession of a certification or license, and primary field of certification or license: 2017**

(Number)

Level of highest degree and occupation	Total	Obtained a certification or license for work-related reasons	Primary field of certification or license										
			Computer applications and design	Computer networking, administration, and security	Other information technologies and computers	Mathematics, statistics, and data analytics	Life sciences	Physical sciences	Social sciences	Engineering	S&E-related	Non-S&E	Uncodeable or missing
Biological, agricultural, and other life scientists	149,000	31,000	D	D	D	D	8,000	4,000	D	D	8,000	9,000	*
Computer and mathematical scientists	1,039,000	219,000	31,000	51,000	33,000	S	D	S	D	2,000	7,000	78,000	11,000
Physical and related scientists	98,000	21,000	D	D	D	D	3,000	11,000	D	S	1,000	4,000	D
Social and related scientists	235,000	106,000	D	D	D	D	D	D	35,000	D	S	61,000	1,000
Engineers	548,000	143,000	S	5,000	D	D	D	3,000	2,000	106,000	1,000	22,000	2,000
S&E-related occupations	2,262,000	1,648,000	13,000	10,000	8,000	S	6,000	10,000	12,000	34,000	951,000	567,000	34,000
Non-S&E occupations	8,929,000	4,196,000	10,000	12,000	14,000	D	7,000	S	33,000	38,000	204,000	3,779,000	87,000
Doctorate	1,796,000	517,000	1,000	3,000	S	D	6,000	8,000	72,000	21,000	181,000	211,000	10,000
S&E occupations	786,000	127,000	S	2,000	S	D	S	5,000	60,000	17,000	16,000	20,000	2,000
S&E-related occupations	267,000	168,000	D	D	D	D	D	2,000	4,000	2,000	131,000	27,000	D
Non-S&E occupations	743,000	222,000	D	D	D	D	5,000	S	8,000	2,000	34,000	164,000	7,000
Professional	3,036,000	2,655,000	D	D	D	D	D	D	24,000	D	1,309,000	1,269,000	48,000
S&E occupations	67,000	37,000	D	D	D	D	D	D	17,000	D	4,000	12,000	D
S&E-related occupations	1,404,000	1,318,000	D	D	D	D	D	D	S	D	1,255,000	24,000	32,000
Non-S&E occupations	1,565,000	1,301,000	D	D	D	D	D	D	2,000	D	50,000	1,233,000	15,000

\* = 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.

**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, 2017.

TABLE 3-1

**Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2017**

(Number)

Level of highest degree and occupation	Total	Primary work activity				
		Computer applications	Management and administration <sup>a</sup>	Research and development <sup>b</sup>	Teaching	Other <sup>c</sup>
All degree levels	48,223,000	2,477,000	21,389,000	4,883,000	7,118,000	12,356,000
S&E occupations	6,769,000	1,777,000	1,426,000	2,241,000	435,000	890,000
Biological, agricultural, and other life scientists	610,000	9,000	81,000	394,000	52,000	76,000
Agricultural and food scientists	41,000	D	9,000	27,000	S	5,000
Biological and medical scientists	455,000	6,000	55,000	326,000	3,000	65,000
Environmental life scientists	27,000	S	10,000	10,000	*	4,000
Postsecondary teachers - life and related sciences	87,000	D	7,000	31,000	47,000	2,000
Computer and mathematical scientists	3,419,000	1,668,000	629,000	677,000	143,000	303,000
Computer and information scientists	3,096,000	1,628,000	580,000	556,000	48,000	282,000
Mathematical scientists	209,000	38,000	43,000	104,000	D	19,000
Postsecondary teachers - computer and math sciences	114,000	S	5,000	16,000	91,000	1,000
Physical and related scientists	366,000	4,000	52,000	191,000	60,000	59,000
Chemists, except biochemists	109,000	D	18,000	65,000	D	26,000
Earth scientists, geologists and oceanographers	69,000	2,000	11,000	43,000	D	14,000
Physicists and astronomers	42,000	2,000	3,000	34,000	D	3,000
Other physical and related scientists	65,000	D	16,000	33,000	D	15,000
Postsecondary teachers - physical and related sciences	81,000	D	4,000	17,000	60,000	D
Social and related scientists	646,000	4,000	117,000	174,000	134,000	217,000
Economists	47,000	1,000	3,000	33,000	D	10,000
Political scientists	33,000	D	12,000	9,000	D	10,000
Psychologists	199,000	D	10,000	28,000	3,000	157,000
Sociologists and anthropologists	24,000	D	4,000	14,000	D	5,000
Other social and related scientists	159,000	S	77,000	61,000	D	19,000
Postsecondary teachers - social and related sciences	183,000	D	9,000	30,000	128,000	S
Engineers	1,728,000	93,000	549,000	804,000	46,000	236,000
Aerospace, aeronautical, and astronautical engineers	132,000	14,000	35,000	64,000	D	17,000
Chemical engineers	93,000	2,000	19,000	53,000	S	16,000
Civil, architectural, and sanitary engineers	264,000	5,000	115,000	105,000	D	37,000
Electrical and computer hardware engineers	374,000	51,000	70,000	205,000	S	48,000
Industrial engineers	88,000	1,000	43,000	31,000	D	13,000
Mechanical engineers	313,000	6,000	79,000	190,000	D	38,000
Other engineers	406,000	14,000	184,000	141,000	S	65,000
Postsecondary teachers - engineering	59,000	D	5,000	17,000	37,000	D
S&E-related occupations	8,271,000	268,000	1,541,000	686,000	1,201,000	4,575,000
Health-related occupations	5,181,000	21,000	551,000	223,000	284,000	4,102,000
S&E managers	1,048,000	47,000	709,000	93,000	7,000	193,000
S&E precollege teachers	961,000	D	46,000	3,000	902,000	5,000
S&E technicians and technologists	837,000	183,000	179,000	245,000	8,000	222,000

TABLE 3-1

**Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2017**

(Number)

Level of highest degree and occupation	Total	Primary work activity				
		Computer applications	Management and administration <sup>a</sup>	Research and development <sup>b</sup>	Teaching	Other <sup>c</sup>
Other S&E-related occupations	244,000	12,000	55,000	123,000	D	53,000
Non-S&E occupations	33,183,000	432,000	18,422,000	1,956,000	5,482,000	6,891,000
Non-S&E managers	4,510,000	78,000	3,834,000	211,000	41,000	346,000
Management-related occupations	6,428,000	132,000	4,902,000	396,000	66,000	932,000
Non-S&E precollege teachers	4,093,000	D	123,000	32,000	3,846,000	48,000
Non-S&E postsecondary teachers	634,000	D	37,000	54,000	526,000	17,000
Social services and related occupations	1,908,000	S	438,000	110,000	242,000	1,114,000
Sales and marketing occupations	4,353,000	31,000	3,806,000	169,000	26,000	321,000
Art, humanities, and related occupations	1,439,000	46,000	462,000	331,000	30,000	571,000
Other non-S&E occupations	9,818,000	97,000	4,821,000	654,000	705,000	3,541,000
Bachelor's	30,131,000	1,665,000	15,257,000	2,866,000	3,545,000	6,797,000
S&E occupations	3,846,000	1,150,000	928,000	1,158,000	122,000	488,000
Biological, agricultural, and other life scientists	230,000	S	31,000	147,000	7,000	40,000
Agricultural and food scientists	18,000	D	5,000	9,000	D	3,000
Biological and medical scientists	183,000	S	20,000	122,000	S	36,000
Environmental life scientists	15,000	D	5,000	6,000	*	2,000
Postsecondary teachers - life and related sciences	S	D	D	S	4,000	D
Computer and mathematical scientists	2,219,000	1,100,000	434,000	406,000	62,000	218,000
Computer and information scientists	2,096,000	1,079,000	402,000	356,000	45,000	214,000
Mathematical scientists	108,000	21,000	31,000	48,000	D	4,000
Postsecondary teachers - computer and math sciences	15,000	D	D	S	13,000	D
Physical and related scientists	164,000	2,000	31,000	74,000	25,000	33,000
Chemists, except biochemists	63,000	D	12,000	33,000	D	17,000
Earth scientists, geologists and oceanographers	28,000	D	5,000	14,000	D	8,000
Physicists and astronomers	9,000	D	S	6,000	D	S
Other physical and related scientists	35,000	D	11,000	17,000	D	7,000
Postsecondary teachers - physical and related sciences	29,000	D	D	S	25,000	D
Social and related scientists	172,000	*	64,000	62,000	13,000	33,000
Economists	S	D	1,000	S	D	S
Political scientists	12,000	D	S	S	D	S
Psychologists	18,000	D	D	8,000	D	8,000
Sociologists and anthropologists	6,000	D	D	S	D	S
Other social and related scientists	89,000	D	S	29,000	D	7,000
Postsecondary teachers - social and related sciences	24,000	D	D	S	10,000	D
Engineers	1,061,000	44,000	368,000	470,000	14,000	164,000
Aerospace, aeronautical, and astronautical engineers	69,000	5,000	19,000	32,000	D	12,000
Chemical engineers	59,000	2,000	14,000	32,000	D	11,000
Civil, architectural, and sanitary engineers	169,000	3,000	79,000	62,000	D	25,000

TABLE 3-1

**Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2017**

(Number)

Level of highest degree and occupation	Total	Primary work activity				
		Computer applications	Management and administration <sup>a</sup>	Research and development <sup>b</sup>	Teaching	Other <sup>c</sup>
Electrical and computer hardware engineers	215,000	24,000	43,000	112,000	D	35,000
Industrial engineers	57,000	1,000	27,000	19,000	D	10,000
Mechanical engineers	219,000	2,000	54,000	136,000	D	27,000
Other engineers	259,000	8,000	129,000	77,000	D	44,000
Postsecondary teachers - engineering	12,000	D	S	D	9,000	D
S&E-related occupations	4,338,000	181,000	928,000	380,000	515,000	2,334,000
Health-related occupations	2,671,000	17,000	371,000	100,000	130,000	2,053,000
S&E managers	515,000	25,000	377,000	50,000	D	62,000
S&E precollege teachers	400,000	D	14,000	S	379,000	S
S&E technicians and technologists	586,000	124,000	128,000	149,000	6,000	179,000
Other S&E-related occupations	166,000	9,000	40,000	79,000	D	39,000
Non-S&E occupations	21,946,000	334,000	13,401,000	1,328,000	2,908,000	3,976,000
Non-S&E managers	2,761,000	58,000	2,356,000	114,000	22,000	211,000
Management-related occupations	4,489,000	88,000	3,470,000	266,000	45,000	619,000
Non-S&E precollege teachers	2,221,000	D	60,000	S	2,092,000	S
Non-S&E postsecondary teachers	107,000	D	S	10,000	92,000	S
Social services and related occupations	869,000	S	265,000	67,000	122,000	411,000
Sales and marketing occupations	3,576,000	29,000	3,116,000	151,000	23,000	257,000
Art, humanities, and related occupations	1,067,000	43,000	342,000	250,000	23,000	409,000
Other non-S&E occupations	6,856,000	74,000	3,788,000	448,000	487,000	2,059,000
Master's	13,260,000	741,000	5,362,000	1,339,000	3,038,000	2,780,000
S&E occupations	2,069,000	571,000	425,000	665,000	137,000	270,000
Biological, agricultural, and other life scientists	149,000	2,000	27,000	85,000	16,000	19,000
Agricultural and food scientists	13,000	D	3,000	8,000	D	S
Biological and medical scientists	108,000	2,000	19,000	72,000	*	14,000
Environmental life scientists	11,000	D	S	3,000	D	2,000
Postsecondary teachers - life and related sciences	17,000	D	D	1,000	15,000	D
Computer and mathematical scientists	1,039,000	522,000	181,000	206,000	51,000	78,000
Computer and information scientists	911,000	508,000	170,000	166,000	S	65,000
Mathematical scientists	75,000	13,000	10,000	39,000	D	13,000
Postsecondary teachers - computer and math sciences	52,000	D	S	S	48,000	D
Physical and related scientists	98,000	1,000	13,000	56,000	9,000	20,000
Chemists, except biochemists	26,000	D	3,000	15,000	D	7,000
Earth scientists, geologists and oceanographers	29,000	S	4,000	20,000	D	4,000
Physicists and astronomers	12,000	D	D	10,000	D	D
Other physical and related scientists	21,000	D	5,000	10,000	D	7,000
Postsecondary teachers - physical and related sciences	10,000	D	D	S	9,000	D
Social and related scientists	235,000	2,000	38,000	56,000	48,000	92,000



TABLE 3-1

**Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2017**

(Number)

Level of highest degree and occupation	Total	Primary work activity				
		Computer applications	Management and administration <sup>a</sup>	Research and development <sup>b</sup>	Teaching	Other <sup>c</sup>
Economists	14,000	S	1,000	8,000	D	4,000
Political scientists	12,000	D	4,000	5,000	D	2,000
Psychologists	86,000	D	4,000	8,000	2,000	72,000
Sociologists and anthropologists	13,000	D	2,000	7,000	D	3,000
Other social and related scientists	55,000	S	23,000	21,000	D	11,000
Postsecondary teachers - social and related sciences	56,000	D	D	7,000	45,000	D
Engineers	548,000	45,000	166,000	262,000	14,000	62,000
Aerospace, aeronautical, and astronautical engineers	54,000	S	14,000	27,000	D	4,000
Chemical engineers	22,000	D	4,000	13,000	D	4,000
Civil, architectural, and sanitary engineers	91,000	2,000	35,000	41,000	D	11,000
Electrical and computer hardware engineers	138,000	25,000	24,000	77,000	D	13,000
Industrial engineers	28,000	S	15,000	10,000	D	3,000
Mechanical engineers	80,000	3,000	22,000	44,000	D	11,000
Other engineers	122,000	6,000	51,000	48,000	S	16,000
Postsecondary teachers - engineering	12,000	D	D	1,000	11,000	D
S&E-related occupations	2,262,000	78,000	498,000	217,000	603,000	867,000
Health-related occupations	1,066,000	S	124,000	67,000	107,000	768,000
S&E managers	383,000	19,000	288,000	32,000	4,000	39,000
S&E precollege teachers	527,000	D	32,000	S	490,000	4,000
S&E technicians and technologists	209,000	55,000	38,000	73,000	S	42,000
Other S&E-related occupations	77,000	S	16,000	44,000	D	14,000
Non-S&E occupations	8,929,000	91,000	4,439,000	458,000	2,298,000	1,643,000
Non-S&E managers	1,469,000	18,000	1,285,000	56,000	13,000	97,000
Management-related occupations	1,756,000	40,000	1,302,000	112,000	20,000	282,000
Non-S&E precollege teachers	1,827,000	D	51,000	S	1,722,000	39,000
Non-S&E postsecondary teachers	283,000	D	23,000	7,000	246,000	6,000
Social services and related occupations	955,000	D	154,000	40,000	103,000	657,000
Sales and marketing occupations	708,000	S	640,000	16,000	D	50,000
Art, humanities, and related occupations	331,000	S	113,000	69,000	4,000	142,000
Other non-S&E occupations	1,600,000	23,000	870,000	147,000	190,000	371,000
Doctorate	1,796,000	59,000	351,000	593,000	444,000	348,000
S&E occupations	786,000	48,000	69,000	403,000	165,000	102,000
Biological, agricultural, and other life scientists	217,000	2,000	21,000	154,000	26,000	14,000
Agricultural and food scientists	10,000	D	*	9,000	D	D
Biological and medical scientists	153,000	2,000	14,000	124,000	*	12,000
Environmental life scientists	1,000	D	D	1,000	D	D
Postsecondary teachers - life and related sciences	53,000	D	7,000	20,000	25,000	D
Computer and mathematical scientists	150,000	40,000	13,000	61,000	29,000	7,000
Computer and information scientists	78,000	36,000	7,000	31,000	D	S

TABLE 3-1

**Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2017**

(Number)

Level of highest degree and occupation	Total	Primary work activity				
		Computer applications	Management and administration <sup>a</sup>	Research and development <sup>b</sup>	Teaching	Other <sup>c</sup>
Mathematical scientists	25,000	4,000	2,000	17,000	D	2,000
Postsecondary teachers - computer and math sciences	47,000	D	4,000	14,000	29,000	D
Physical and related scientists	101,000	1,000	8,000	62,000	26,000	4,000
Chemists, except biochemists	20,000	D	2,000	17,000	D	1,000
Earth scientists, geologists and oceanographers	11,000	S	S	8,000	D	D
Physicists and astronomers	21,000	D	1,000	18,000	D	D
Other physical and related scientists	8,000	D	D	6,000	D	D
Postsecondary teachers - physical and related sciences	41,000	D	3,000	12,000	26,000	D
Social and related scientists	201,000	D	13,000	53,000	67,000	67,000
Economists	10,000	D	S	7,000	D	3,000
Political scientists	2,000	D	D	1,000	D	D
Psychologists	75,000	D	3,000	12,000	D	60,000
Sociologists and anthropologists	5,000	D	D	5,000	D	D
Other social and related scientists	14,000	D	3,000	10,000	D	S
Postsecondary teachers - social and related sciences	95,000	D	6,000	20,000	66,000	3,000
Engineers	116,000	4,000	14,000	72,000	17,000	10,000
Aerospace, aeronautical, and astronautical engineers	8,000	D	D	4,000	D	D
Chemical engineers	11,000	D	1,000	8,000	D	S
Civil, architectural, and sanitary engineers	4,000	D	D	2,000	D	D
Electrical and computer hardware engineers	20,000	1,000	3,000	15,000	D	S
Industrial engineers	2,000	D	D	D	D	D
Mechanical engineers	12,000	1,000	S	10,000	D	D
Other engineers	24,000	S	3,000	17,000	D	4,000
Postsecondary teachers - engineering	35,000	D	2,000	16,000	17,000	D
S&E-related occupations	267,000	7,000	42,000	56,000	48,000	112,000
Health-related occupations	166,000	D	10,000	24,000	27,000	105,000
S&E managers	46,000	D	27,000	10,000	D	7,000
S&E precollege teachers	22,000	D	D	D	21,000	D
S&E technicians and technologists	32,000	4,000	5,000	22,000	D	*
Other S&E-related occupations	S	D	D	D	D	D
Non-S&E occupations	743,000	5,000	240,000	134,000	231,000	134,000
Non-S&E managers	167,000	S	112,000	36,000	S	11,000
Management-related occupations	81,000	2,000	48,000	17,000	D	13,000
Non-S&E precollege teachers	20,000	D	S	D	15,000	D
Non-S&E postsecondary teachers	215,000	D	10,000	34,000	167,000	3,000
Social services and related occupations	69,000	D	16,000	S	17,000	34,000
Sales and marketing occupations	13,000	D	5,000	S	D	6,000
Art, humanities, and related occupations	30,000	D	5,000	9,000	2,000	14,000
Other non-S&E occupations	149,000	D	39,000	35,000	22,000	52,000

TABLE 3-1

**Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2017**

(Number)

Level of highest degree and occupation	Total	Primary work activity				
		Computer applications	Management and administration <sup>a</sup>	Research and development <sup>b</sup>	Teaching	Other <sup>c</sup>
Professional	3,036,000	12,000	419,000	85,000	90,000	2,430,000
S&E occupations	67,000	8,000	4,000	15,000	10,000	30,000
S&E-related occupations	1,404,000	D	72,000	33,000	35,000	1,262,000
Non-S&E occupations	1,565,000	D	343,000	37,000	45,000	1,138,000

\* = 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> Management and administration includes respondents who reported the following work activities: accounting, finance, or contracts; human resources; quality or productivity management; sales and marketing; or managing and supervising.

<sup>b</sup> Research and development includes basic research, applied research, development, and design.

<sup>c</sup> Other work activities includes production, operations, maintenance, professional services, and other activities not broken out separately.

**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, 2017.

TABLE 3-2

**Employed college graduates, by employment sector, minor occupation, and job satisfaction: 2017**

(Number)

Sector and occupation	Total	Job satisfaction			
		Very satisfied	Somewhat satisfied	Somewhat dissatisfied	Very dissatisfied
All sectors	48,223,000	21,878,000	20,857,000	4,294,000	1,195,000
S&E occupations	6,769,000	3,002,000	3,137,000	526,000	104,000
Biological, agricultural, and other life scientists	610,000	288,000	260,000	51,000	11,000
Agricultural and food scientists	41,000	14,000	23,000	2,000	S
Biological and medical scientists	455,000	216,000	192,000	39,000	8,000
Environmental life scientists	27,000	9,000	15,000	S	D
Postsecondary teachers - life and related sciences	87,000	49,000	30,000	6,000	2,000
Computer and mathematical scientists	3,419,000	1,427,000	1,640,000	296,000	56,000
Computer and information scientists	3,096,000	1,276,000	1,497,000	269,000	53,000
Mathematical scientists	209,000	92,000	94,000	21,000	2,000
Postsecondary teachers - computer and math sciences	114,000	58,000	48,000	7,000	D
Physical and related scientists	366,000	163,000	170,000	22,000	11,000
Chemists, except biochemists	109,000	45,000	53,000	8,000	3,000
Earth scientists, geologists and oceanographers	69,000	31,000	32,000	5,000	S
Physicists and astronomers	42,000	22,000	17,000	2,000	D
Other physical and related scientists	65,000	31,000	25,000	4,000	5,000
Postsecondary teachers - physical and related sciences	81,000	34,000	43,000	3,000	D
Social and related scientists	646,000	347,000	255,000	39,000	5,000
Economists	47,000	32,000	13,000	2,000	S
Political scientists	33,000	19,000	12,000	S	D
Psychologists	199,000	122,000	67,000	10,000	D
Sociologists and anthropologists	24,000	11,000	9,000	S	D
Other social and related scientists	159,000	70,000	74,000	14,000	1,000
Postsecondary teachers - social and related sciences	183,000	93,000	80,000	9,000	1,000
Engineers	1,728,000	776,000	813,000	118,000	21,000
Aerospace, aeronautical, and astronautical engineers	132,000	59,000	56,000	16,000	S
Chemical engineers	93,000	40,000	46,000	6,000	S
Civil, architectural, and sanitary engineers	264,000	123,000	121,000	16,000	4,000
Electrical and computer hardware engineers	374,000	181,000	165,000	26,000	3,000
Industrial engineers	88,000	36,000	45,000	6,000	D
Mechanical engineers	313,000	132,000	153,000	24,000	3,000
Other engineers	406,000	179,000	199,000	21,000	7,000
Postsecondary teachers - engineering	59,000	27,000	29,000	3,000	D
S&E-related occupations	8,271,000	4,095,000	3,471,000	576,000	129,000
Health-related occupations	5,181,000	2,623,000	2,125,000	344,000	89,000
S&E managers	1,048,000	541,000	432,000	64,000	12,000
S&E precollege teachers	961,000	429,000	437,000	88,000	7,000
S&E technicians and technologists	837,000	374,000	378,000	68,000	18,000
Other S&E-related occupations	244,000	129,000	99,000	13,000	D
Non-S&E occupations	33,183,000	14,781,000	14,249,000	3,192,000	961,000
Non-S&E managers	4,510,000	2,657,000	1,558,000	237,000	59,000
Management-related occupations	6,428,000	2,615,000	3,083,000	561,000	169,000
Non-S&E precollege teachers	4,093,000	1,836,000	1,846,000	362,000	49,000
Non-S&E postsecondary teachers	634,000	354,000	224,000	50,000	6,000
Social services and related occupations	1,908,000	881,000	831,000	154,000	42,000

TABLE 3-2

**Employed college graduates, by employment sector, minor occupation, and job satisfaction: 2017**

(Number)

Sector and occupation	Total	Job satisfaction			
		Very satisfied	Somewhat satisfied	Somewhat dissatisfied	Very dissatisfied
Sales and marketing occupations	4,353,000	1,728,000	1,898,000	543,000	184,000
Art, humanities, and related occupations	1,439,000	625,000	654,000	133,000	27,000
Other non-S&E occupations	9,818,000	4,085,000	4,155,000	1,153,000	425,000
Business or industry	33,510,000	14,932,000	14,542,000	3,066,000	970,000
S&E occupations	4,888,000	2,124,000	2,281,000	401,000	81,000
Biological, agricultural, and other life scientists	266,000	122,000	113,000	26,000	5,000
Agricultural and food scientists	26,000	9,000	14,000	1,000	S
Biological and medical scientists	232,000	111,000	96,000	21,000	4,000
Environmental life scientists	8,000	2,000	3,000	D	D
Postsecondary teachers - life and related sciences	D	D	D	D	D
Computer and mathematical scientists	2,827,000	1,174,000	1,355,000	248,000	51,000
Computer and information scientists	2,676,000	1,106,000	1,279,000	240,000	51,000
Mathematical scientists	151,000	68,000	76,000	7,000	D
Postsecondary teachers - computer and math sciences	D	D	D	D	D
Physical and related scientists	154,000	66,000	71,000	13,000	4,000
Chemists, except biochemists	73,000	29,000	36,000	6,000	S
Earth scientists, geologists and oceanographers	41,000	16,000	20,000	4,000	D
Physicists and astronomers	12,000	8,000	4,000	D	D
Other physical and related scientists	27,000	13,000	11,000	2,000	S
Postsecondary teachers - physical and related sciences	D	D	D	D	D
Social and related scientists	253,000	141,000	93,000	17,000	S
Economists	20,000	11,000	7,000	S	D
Political scientists	12,000	9,000	3,000	D	D
Psychologists	107,000	70,000	32,000	4,000	D
Sociologists and anthropologists	10,000	4,000	3,000	S	D
Other social and related scientists	103,000	S	47,000	9,000	*
Postsecondary teachers - social and related sciences	D	D	D	D	D
Engineers	1,387,000	621,000	649,000	98,000	19,000
Aerospace, aeronautical, and astronautical engineers	105,000	44,000	44,000	15,000	S
Chemical engineers	80,000	36,000	37,000	5,000	S
Civil, architectural, and sanitary engineers	175,000	86,000	76,000	10,000	3,000
Electrical and computer hardware engineers	326,000	154,000	145,000	25,000	2,000
Industrial engineers	77,000	32,000	39,000	6,000	D
Mechanical engineers	288,000	122,000	140,000	22,000	3,000
Other engineers	337,000	147,000	167,000	15,000	7,000
Postsecondary teachers - engineering	D	D	D	D	D
S&E-related occupations	5,869,000	2,903,000	2,486,000	373,000	107,000
Health-related occupations	4,128,000	2,061,000	1,736,000	253,000	78,000
S&E managers	843,000	428,000	353,000	51,000	11,000
S&E precollege teachers	D	D	D	D	D
S&E technicians and technologists	679,000	303,000	301,000	58,000	16,000
Other S&E-related occupations	219,000	111,000	95,000	11,000	D
Non-S&E occupations	22,753,000	9,905,000	9,775,000	2,293,000	781,000
Non-S&E managers	3,607,000	2,122,000	1,219,000	211,000	54,000

TABLE 3-2

**Employed college graduates, by employment sector, minor occupation, and job satisfaction: 2017**

(Number)

Sector and occupation	Total	Job satisfaction			
		Very satisfied	Somewhat satisfied	Somewhat dissatisfied	Very dissatisfied
Management-related occupations	5,310,000	2,091,000	2,580,000	499,000	139,000
Non-S&E precollege teachers	D	D	D	D	D
Non-S&E postsecondary teachers	D	D	D	D	D
Social services and related occupations	1,190,000	589,000	481,000	89,000	30,000
Sales and marketing occupations	4,230,000	1,677,000	1,839,000	532,000	182,000
Art, humanities, and related occupations	1,284,000	564,000	585,000	115,000	21,000
Other non-S&E occupations	7,133,000	2,862,000	3,070,000	846,000	355,000
Education	9,905,000	4,582,000	4,343,000	862,000	118,000
S&E occupations	1,096,000	504,000	509,000	72,000	11,000
Biological, agricultural, and other life scientists	240,000	117,000	98,000	20,000	5,000
Agricultural and food scientists	10,000	3,000	7,000	D	D
Biological and medical scientists	142,000	64,000	61,000	14,000	3,000
Environmental life scientists	2,000	*	S	D	D
Postsecondary teachers - life and related sciences	87,000	49,000	30,000	6,000	2,000
Computer and mathematical scientists	300,000	126,000	152,000	20,000	3,000
Computer and information scientists	169,000	61,000	96,000	11,000	D
Mathematical scientists	16,000	6,000	8,000	2,000	D
Postsecondary teachers - computer and math sciences	114,000	58,000	48,000	7,000	D
Physical and related scientists	136,000	59,000	68,000	6,000	S
Chemists, except biochemists	21,000	9,000	10,000	S	S
Earth scientists, geologists and oceanographers	12,000	6,000	5,000	D	D
Physicists and astronomers	18,000	8,000	8,000	2,000	D
Other physical and related scientists	4,000	1,000	S	D	D
Postsecondary teachers - physical and related sciences	81,000	34,000	43,000	3,000	D
Social and related scientists	297,000	147,000	130,000	18,000	2,000
Economists	5,000	2,000	3,000	D	D
Political scientists	S	S	S	D	D
Psychologists	73,000	40,000	27,000	5,000	D
Sociologists and anthropologists	8,000	3,000	S	D	D
Other social and related scientists	22,000	7,000	13,000	2,000	D
Postsecondary teachers - social and related sciences	183,000	93,000	80,000	9,000	1,000
Engineers	122,000	55,000	60,000	8,000	D
Aerospace, aeronautical, and astronautical engineers	2,000	1,000	S	D	D
Chemical engineers	10,000	3,000	S	D	D
Civil, architectural, and sanitary engineers	5,000	1,000	3,000	D	D
Electrical and computer hardware engineers	15,000	8,000	7,000	D	D
Industrial engineers	2,000	S	D	D	D
Mechanical engineers	8,000	3,000	5,000	D	D
Other engineers	21,000	9,000	8,000	4,000	D
Postsecondary teachers - engineering	59,000	27,000	29,000	3,000	D
S&E-related occupations	1,759,000	859,000	743,000	143,000	14,000
Health-related occupations	662,000	359,000	249,000	47,000	6,000
S&E managers	65,000	41,000	21,000	S	D
S&E precollege teachers	961,000	429,000	437,000	88,000	7,000

TABLE 3-2

**Employed college graduates, by employment sector, minor occupation, and job satisfaction: 2017**

(Number)

Sector and occupation	Total	Job satisfaction			
		Very satisfied	Somewhat satisfied	Somewhat dissatisfied	Very dissatisfied
S&E technicians and technologists	66,000	26,000	35,000	5,000	S
Other S&E-related occupations	S	S	D	D	D
Non-S&E occupations	7,050,000	3,219,000	3,092,000	647,000	92,000
Non-S&E managers	447,000	254,000	174,000	17,000	D
Management-related occupations	346,000	156,000	165,000	11,000	13,000
Non-S&E precollege teachers	4,093,000	1,836,000	1,846,000	362,000	49,000
Non-S&E postsecondary teachers	634,000	354,000	224,000	50,000	6,000
Social services and related occupations	371,000	146,000	193,000	31,000	*
Sales and marketing occupations	77,000	40,000	33,000	3,000	D
Art, humanities, and related occupations	121,000	43,000	54,000	S	D
Other non-S&E occupations	963,000	389,000	402,000	157,000	14,000
Government	4,808,000	2,363,000	1,971,000	366,000	108,000
S&E occupations	785,000	373,000	347,000	53,000	12,000
Biological, agricultural, and other life scientists	104,000	48,000	49,000	5,000	2,000
Agricultural and food scientists	5,000	1,000	3,000	D	D
Biological and medical scientists	82,000	40,000	36,000	5,000	S
Environmental life scientists	17,000	6,000	10,000	1,000	D
Postsecondary teachers - life and related sciences	D	D	D	D	D
Computer and mathematical scientists	292,000	128,000	133,000	29,000	2,000
Computer and information scientists	250,000	110,000	122,000	17,000	S
Mathematical scientists	42,000	18,000	11,000	S	1,000
Postsecondary teachers - computer and math sciences	D	D	D	D	D
Physical and related scientists	76,000	38,000	30,000	3,000	5,000
Chemists, except biochemists	15,000	8,000	7,000	1,000	D
Earth scientists, geologists and oceanographers	16,000	9,000	6,000	*	D
Physicists and astronomers	12,000	5,000	6,000	D	D
Other physical and related scientists	34,000	17,000	11,000	S	4,000
Postsecondary teachers - physical and related sciences	D	D	D	D	D
Social and related scientists	95,000	59,000	32,000	4,000	D
Economists	S	S	3,000	S	D
Political scientists	16,000	S	S	D	D
Psychologists	19,000	11,000	7,000	D	D
Sociologists and anthropologists	5,000	4,000	1,000	D	D
Other social and related scientists	33,000	17,000	14,000	S	D
Postsecondary teachers - social and related sciences	D	D	D	D	D
Engineers	218,000	100,000	104,000	12,000	2,000
Aerospace, aeronautical, and astronautical engineers	24,000	13,000	11,000	D	D
Chemical engineers	3,000	S	2,000	D	D
Civil, architectural, and sanitary engineers	84,000	36,000	41,000	6,000	1,000
Electrical and computer hardware engineers	34,000	19,000	13,000	S	S
Industrial engineers	8,000	3,000	5,000	D	D
Mechanical engineers	16,000	6,000	9,000	1,000	D
Other engineers	48,000	22,000	24,000	2,000	D
Postsecondary teachers - engineering	D	D	D	D	D

TABLE 3-2

**Employed college graduates, by employment sector, minor occupation, and job satisfaction: 2017**

(Number)

Sector and occupation	Total	Job satisfaction			
		Very satisfied	Somewhat satisfied	Somewhat dissatisfied	Very dissatisfied
S&E-related occupations	643,000	333,000	242,000	60,000	8,000
Health-related occupations	392,000	203,000	139,000	44,000	S
S&E managers	141,000	71,000	58,000	10,000	D
S&E precollege teachers	D	D	D	D	D
S&E technicians and technologists	92,000	45,000	41,000	5,000	D
Other S&E-related occupations	19,000	15,000	S	D	D
Non-S&E occupations	3,379,000	1,657,000	1,382,000	253,000	88,000
Non-S&E managers	457,000	281,000	165,000	8,000	S
Management-related occupations	773,000	368,000	338,000	51,000	16,000
Non-S&E precollege teachers	D	D	D	D	D
Non-S&E postsecondary teachers	D	D	D	D	D
Social services and related occupations	347,000	146,000	156,000	34,000	12,000
Sales and marketing occupations	46,000	S	26,000	S	D
Art, humanities, and related occupations	35,000	19,000	15,000	S	D
Other non-S&E occupations	1,722,000	833,000	683,000	150,000	56,000

\* = 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.

**Note(s):**

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding. Business or industry includes self-employed individuals, nonprofit organizations, and other unspecified types of employers. Education includes 4-year colleges and universities, medical schools, university-affiliated research institutes, 2-year colleges, precollege institutions, and other educational institutions. Government includes federal (civilian), military, state, and local employers.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.



TABLE 3-3

**Employed college graduates, by sex, major occupation, job satisfaction, and primary work activity: 2017**

(Number)

Sex, occupation, and job satisfaction	Total	Primary work activity				
		Computer applications	Management and administration <sup>a</sup>	Research and development <sup>b</sup>	Teaching	Other <sup>c</sup>
All sexes	48,223,000	2,477,000	21,389,000	4,883,000	7,118,000	12,356,000
Very satisfied	21,878,000	1,038,000	9,460,000	2,225,000	3,421,000	5,734,000
Somewhat satisfied	20,857,000	1,179,000	9,274,000	2,189,000	3,002,000	5,213,000
Somewhat dissatisfied	4,294,000	223,000	2,059,000	375,000	603,000	1,034,000
Very dissatisfied	1,195,000	37,000	597,000	94,000	92,000	375,000
S&E occupations	6,769,000	1,777,000	1,426,000	2,241,000	435,000	890,000
Very satisfied	3,002,000	761,000	605,000	1,045,000	192,000	399,000
Somewhat satisfied	3,137,000	855,000	678,000	1,007,000	211,000	386,000
Somewhat dissatisfied	526,000	146,000	114,000	160,000	28,000	78,000
Very dissatisfied	104,000	14,000	30,000	29,000	4,000	26,000
Biological, agricultural, and other life scientists	610,000	9,000	81,000	394,000	52,000	76,000
Very satisfied	288,000	2,000	37,000	189,000	25,000	35,000
Somewhat satisfied	260,000	4,000	32,000	171,000	21,000	33,000
Somewhat dissatisfied	51,000	D	8,000	28,000	5,000	8,000
Very dissatisfied	11,000	D	4,000	6,000	D	S
Computer and mathematical scientists	3,419,000	1,668,000	629,000	677,000	143,000	303,000
Very satisfied	1,427,000	715,000	247,000	300,000	57,000	109,000
Somewhat satisfied	1,640,000	811,000	309,000	305,000	76,000	139,000
Somewhat dissatisfied	296,000	129,000	57,000	62,000	9,000	40,000
Very dissatisfied	56,000	14,000	15,000	10,000	D	16,000
Physical and related scientists	366,000	4,000	52,000	191,000	60,000	59,000
Very satisfied	163,000	2,000	23,000	97,000	21,000	20,000
Somewhat satisfied	170,000	1,000	22,000	82,000	36,000	28,000
Somewhat dissatisfied	22,000	D	4,000	9,000	2,000	6,000
Very dissatisfied	11,000	D	2,000	3,000	D	5,000
Social and related scientists	646,000	4,000	117,000	174,000	134,000	217,000
Very satisfied	347,000	S	65,000	86,000	71,000	123,000
Somewhat satisfied	255,000	1,000	41,000	77,000	54,000	81,000
Somewhat dissatisfied	39,000	D	10,000	9,000	7,000	12,000
Very dissatisfied	5,000	D	D	S	1,000	1,000
Engineers	1,728,000	93,000	549,000	804,000	46,000	236,000
Very satisfied	776,000	40,000	233,000	372,000	18,000	113,000
Somewhat satisfied	813,000	37,000	273,000	372,000	24,000	106,000
Somewhat dissatisfied	118,000	15,000	34,000	52,000	4,000	13,000
Very dissatisfied	21,000	D	9,000	8,000	D	4,000
S&E-related occupations	8,271,000	268,000	1,541,000	686,000	1,201,000	4,575,000
Very satisfied	4,095,000	133,000	733,000	348,000	578,000	2,303,000
Somewhat satisfied	3,471,000	111,000	647,000	295,000	521,000	1,896,000
Somewhat dissatisfied	576,000	16,000	120,000	40,000	95,000	304,000
Very dissatisfied	129,000	7,000	40,000	3,000	7,000	71,000
Non-S&E occupations	33,183,000	432,000	18,422,000	1,956,000	5,482,000	6,891,000
Very satisfied	14,781,000	144,000	8,122,000	832,000	2,652,000	3,032,000
Somewhat satisfied	14,249,000	212,000	7,949,000	888,000	2,270,000	2,930,000
Somewhat dissatisfied	3,192,000	61,000	1,825,000	175,000	480,000	651,000
Very dissatisfied	961,000	15,000	527,000	62,000	80,000	277,000
Female	24,900,000	613,000	10,536,000	1,868,000	5,200,000	6,684,000

TABLE 3-3

**Employed college graduates, by sex, major occupation, job satisfaction, and primary work activity: 2017**

(Number)

Sex, occupation, and job satisfaction	Total	Primary work activity				
		Computer applications	Management and administration <sup>a</sup>	Research and development <sup>b</sup>	Teaching	Other <sup>c</sup>
Very satisfied	10,944,000	206,000	4,313,000	766,000	2,516,000	3,142,000
Somewhat satisfied	11,052,000	324,000	4,836,000	906,000	2,137,000	2,849,000
Somewhat dissatisfied	2,321,000	72,000	1,095,000	152,000	475,000	527,000
Very dissatisfied	585,000	11,000	292,000	44,000	72,000	166,000
S&E occupations	1,966,000	358,000	465,000	626,000	189,000	328,000
Very satisfied	835,000	146,000	174,000	280,000	84,000	151,000
Somewhat satisfied	930,000	183,000	225,000	286,000	92,000	144,000
Somewhat dissatisfied	171,000	25,000	57,000	50,000	13,000	27,000
Very dissatisfied	31,000	4,000	9,000	11,000	D	6,000
Biological, agricultural, and other life scientists	292,000	2,000	41,000	176,000	31,000	42,000
Very satisfied	139,000	D	18,000	85,000	15,000	20,000
Somewhat satisfied	122,000	S	16,000	76,000	12,000	18,000
Somewhat dissatisfied	26,000	D	6,000	14,000	4,000	3,000
Very dissatisfied	4,000	D	S	2,000	D	D
Computer and mathematical scientists	919,000	340,000	250,000	189,000	66,000	75,000
Very satisfied	358,000	138,000	84,000	85,000	21,000	30,000
Somewhat satisfied	450,000	175,000	126,000	77,000	41,000	31,000
Somewhat dissatisfied	96,000	23,000	35,000	23,000	S	11,000
Very dissatisfied	14,000	4,000	5,000	4,000	D	D
Physical and related scientists	107,000	1,000	22,000	53,000	10,000	23,000
Very satisfied	48,000	D	11,000	26,000	4,000	7,000
Somewhat satisfied	46,000	*	8,000	21,000	5,000	11,000
Somewhat dissatisfied	8,000	D	2,000	3,000	1,000	2,000
Very dissatisfied	6,000	D	D	S	D	S
Social and related scientists	379,000	S	63,000	92,000	74,000	148,000
Very satisfied	180,000	D	24,000	36,000	40,000	79,000
Somewhat satisfied	169,000	S	30,000	50,000	31,000	59,000
Somewhat dissatisfied	26,000	D	8,000	5,000	3,000	10,000
Very dissatisfied	4,000	D	D	S	D	1,000
Engineers	269,000	13,000	90,000	116,000	8,000	41,000
Very satisfied	110,000	6,000	38,000	48,000	5,000	14,000
Somewhat satisfied	142,000	6,000	45,000	62,000	3,000	25,000
Somewhat dissatisfied	14,000	D	6,000	5,000	D	1,000
Very dissatisfied	3,000	D	S	1,000	D	D
S&E-related occupations	4,764,000	67,000	677,000	275,000	778,000	2,968,000
Very satisfied	2,310,000	29,000	303,000	123,000	383,000	1,471,000
Somewhat satisfied	2,046,000	29,000	305,000	134,000	330,000	1,247,000
Somewhat dissatisfied	347,000	5,000	57,000	16,000	59,000	210,000
Very dissatisfied	62,000	D	12,000	1,000	5,000	40,000
Non-S&E occupations	18,170,000	188,000	9,394,000	967,000	4,233,000	3,388,000
Very satisfied	7,799,000	31,000	3,837,000	362,000	2,049,000	1,520,000
Somewhat satisfied	8,076,000	111,000	4,305,000	487,000	1,714,000	1,458,000
Somewhat dissatisfied	1,803,000	S	981,000	86,000	404,000	290,000
Very dissatisfied	492,000	S	270,000	32,000	66,000	120,000
Male	23,323,000	1,864,000	10,854,000	3,016,000	1,918,000	5,671,000
Very satisfied	10,934,000	832,000	5,146,000	1,459,000	905,000	2,592,000

TABLE 3-3

**Employed college graduates, by sex, major occupation, job satisfaction, and primary work activity: 2017**

(Number)

Sex, occupation, and job satisfaction	Total	Primary work activity				
		Computer applications	Management and administration <sup>a</sup>	Research and development <sup>b</sup>	Teaching	Other <sup>c</sup>
Somewhat satisfied	9,805,000	855,000	4,438,000	1,283,000	865,000	2,364,000
Somewhat dissatisfied	1,973,000	151,000	964,000	223,000	128,000	507,000
Very dissatisfied	610,000	26,000	306,000	51,000	20,000	209,000
S&E occupations	4,803,000	1,419,000	961,000	1,615,000	246,000	562,000
Very satisfied	2,167,000	615,000	431,000	764,000	108,000	248,000
Somewhat satisfied	2,207,000	672,000	452,000	721,000	119,000	243,000
Somewhat dissatisfied	355,000	121,000	57,000	110,000	15,000	51,000
Very dissatisfied	73,000	11,000	21,000	19,000	4,000	20,000
Biological, agricultural, and other life scientists	319,000	7,000	40,000	217,000	21,000	34,000
Very satisfied	149,000	S	19,000	104,000	11,000	14,000
Somewhat satisfied	137,000	4,000	16,000	95,000	9,000	14,000
Somewhat dissatisfied	25,000	D	3,000	14,000	1,000	5,000
Very dissatisfied	7,000	D	2,000	5,000	D	*
Computer and mathematical scientists	2,500,000	1,327,000	379,000	488,000	77,000	228,000
Very satisfied	1,070,000	577,000	164,000	215,000	36,000	78,000
Somewhat satisfied	1,189,000	636,000	183,000	228,000	35,000	108,000
Somewhat dissatisfied	200,000	105,000	22,000	39,000	5,000	28,000
Very dissatisfied	42,000	10,000	10,000	6,000	D	14,000
Physical and related scientists	259,000	3,000	30,000	139,000	50,000	36,000
Very satisfied	116,000	2,000	12,000	71,000	18,000	13,000
Somewhat satisfied	124,000	1,000	14,000	61,000	30,000	18,000
Somewhat dissatisfied	14,000	D	3,000	7,000	S	3,000
Very dissatisfied	5,000	D	D	1,000	D	S
Social and related scientists	266,000	2,000	S	82,000	59,000	69,000
Very satisfied	167,000	S	S	50,000	31,000	44,000
Somewhat satisfied	86,000	S	11,000	28,000	23,000	22,000
Somewhat dissatisfied	13,000	D	2,000	4,000	4,000	S
Very dissatisfied	1,000	D	D	D	S	D
Engineers	1,459,000	79,000	458,000	688,000	38,000	195,000
Very satisfied	666,000	35,000	195,000	325,000	13,000	99,000
Somewhat satisfied	671,000	31,000	228,000	310,000	22,000	80,000
Somewhat dissatisfied	104,000	13,000	28,000	47,000	4,000	12,000
Very dissatisfied	18,000	D	7,000	6,000	D	4,000
S&E-related occupations	3,507,000	201,000	864,000	412,000	423,000	1,607,000
Very satisfied	1,786,000	104,000	430,000	225,000	194,000	833,000
Somewhat satisfied	1,425,000	82,000	342,000	161,000	190,000	649,000
Somewhat dissatisfied	229,000	12,000	63,000	24,000	37,000	93,000
Very dissatisfied	68,000	3,000	29,000	S	S	32,000
Non-S&E occupations	15,013,000	244,000	9,029,000	989,000	1,249,000	3,502,000
Very satisfied	6,982,000	113,000	4,285,000	470,000	603,000	1,511,000
Somewhat satisfied	6,173,000	101,000	3,643,000	401,000	556,000	1,472,000
Somewhat dissatisfied	1,389,000	19,000	844,000	89,000	76,000	362,000
Very dissatisfied	470,000	12,000	256,000	30,000	14,000	157,000

\* = 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> Management and administration includes respondents who reported the following work activities: accounting, finance, or contracts; human resources; quality or productivity management; sales and marketing; or managing and supervising.

<sup>b</sup> Research and development includes basic research, applied research, development, and design.

<sup>c</sup> Other work activities includes production, operations, maintenance, professional services, and other activities not broken out separately.

**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, 2017.

TABLE 3-4

**Employed college graduates, by sex, major occupation, job satisfaction, and years since highest degree: 2017**

(Number)

Sex, occupation, and job satisfaction	Total	Years since highest degree							
		< 5	5-9	10-14	15-19	20-24	25-29	30-34	≥ 35
All sexes	48,223,000	7,482,000	8,984,000	7,102,000	5,680,000	4,865,000	4,150,000	3,788,000	6,171,000
Very satisfied	21,878,000	3,058,000	3,503,000	3,116,000	2,588,000	2,180,000	1,974,000	1,927,000	3,532,000
Somewhat satisfied	20,857,000	3,258,000	4,174,000	3,197,000	2,554,000	2,163,000	1,755,000	1,515,000	2,240,000
Somewhat dissatisfied	4,294,000	900,000	995,000	617,000	442,000	419,000	334,000	269,000	317,000
Very dissatisfied	1,195,000	266,000	312,000	173,000	96,000	102,000	87,000	77,000	82,000
S&E occupations	6,769,000	1,246,000	1,366,000	1,060,000	800,000	686,000	607,000	456,000	548,000
Very satisfied	3,002,000	572,000	558,000	453,000	356,000	298,000	267,000	207,000	290,000
Somewhat satisfied	3,137,000	540,000	652,000	514,000	385,000	324,000	288,000	211,000	223,000
Somewhat dissatisfied	526,000	106,000	140,000	78,000	49,000	52,000	44,000	29,000	28,000
Very dissatisfied	104,000	27,000	16,000	15,000	10,000	12,000	8,000	9,000	7,000
Biological, agricultural, and other life scientists	610,000	157,000	144,000	79,000	68,000	46,000	36,000	30,000	50,000
Very satisfied	288,000	85,000	59,000	37,000	28,000	21,000	18,000	15,000	24,000
Somewhat satisfied	260,000	59,000	67,000	31,000	35,000	21,000	12,000	12,000	23,000
Somewhat dissatisfied	51,000	10,000	15,000	10,000	4,000	4,000	5,000	2,000	S
Very dissatisfied	11,000	4,000	2,000	S	D	1,000	S	D	D
Computer and mathematical scientists	3,419,000	521,000	695,000	618,000	433,000	377,000	349,000	207,000	218,000
Very satisfied	1,427,000	223,000	279,000	262,000	182,000	153,000	143,000	83,000	103,000
Somewhat satisfied	1,640,000	227,000	329,000	301,000	218,000	191,000	173,000	103,000	97,000
Somewhat dissatisfied	296,000	55,000	81,000	44,000	28,000	27,000	29,000	16,000	17,000
Very dissatisfied	56,000	16,000	6,000	11,000	5,000	7,000	4,000	5,000	D
Physical and related scientists	366,000	98,000	58,000	41,000	43,000	35,000	21,000	30,000	40,000
Very satisfied	163,000	35,000	21,000	17,000	26,000	15,000	11,000	14,000	25,000
Somewhat satisfied	170,000	56,000	31,000	21,000	13,000	14,000	8,000	13,000	13,000
Somewhat dissatisfied	22,000	5,000	3,000	3,000	3,000	3,000	2,000	S	1,000
Very dissatisfied	11,000	1,000	2,000	D	S	3,000	D	D	D
Social and related scientists	646,000	159,000	136,000	95,000	73,000	49,000	49,000	33,000	51,000
Very satisfied	347,000	88,000	60,000	44,000	38,000	27,000	28,000	22,000	39,000
Somewhat satisfied	255,000	59,000	63,000	45,000	28,000	18,000	21,000	9,000	11,000
Somewhat dissatisfied	39,000	9,000	12,000	5,000	6,000	3,000	S	S	1,000
Very dissatisfied	5,000	S	S	D	D	D	D	D	D
Engineers	1,728,000	310,000	333,000	228,000	182,000	179,000	150,000	155,000	190,000
Very satisfied	776,000	141,000	139,000	93,000	82,000	82,000	67,000	73,000	100,000
Somewhat satisfied	813,000	138,000	162,000	116,000	90,000	80,000	73,000	74,000	79,000
Somewhat dissatisfied	118,000	27,000	29,000	16,000	8,000	15,000	8,000	7,000	7,000
Very dissatisfied	21,000	4,000	3,000	3,000	S	2,000	S	S	3,000
S&E-related occupations	8,271,000	1,588,000	1,624,000	1,186,000	951,000	817,000	593,000	567,000	944,000
Very satisfied	4,095,000	751,000	694,000	564,000	470,000	393,000	326,000	327,000	569,000
Somewhat satisfied	3,471,000	649,000	753,000	526,000	411,000	354,000	225,000	207,000	347,000
Somewhat dissatisfied	576,000	148,000	150,000	76,000	61,000	61,000	34,000	23,000	22,000
Very dissatisfied	129,000	41,000	27,000	20,000	8,000	8,000	9,000	S	S
Non-S&E occupations	33,183,000	4,648,000	5,994,000	4,856,000	3,930,000	3,361,000	2,951,000	2,766,000	4,678,000
Very satisfied	14,781,000	1,735,000	2,251,000	2,098,000	1,761,000	1,489,000	1,382,000	1,393,000	2,672,000
Somewhat satisfied	14,249,000	2,070,000	2,769,000	2,156,000	1,758,000	1,485,000	1,243,000	1,098,000	1,670,000
Somewhat dissatisfied	3,192,000	646,000	704,000	464,000	332,000	306,000	256,000	217,000	266,000
Very dissatisfied	961,000	198,000	269,000	137,000	78,000	81,000	70,000	58,000	69,000
Female	24,900,000	4,353,000	5,135,000	3,825,000	2,915,000	2,448,000	1,948,000	1,766,000	2,510,000
Very satisfied	10,944,000	1,698,000	1,997,000	1,677,000	1,290,000	1,069,000	950,000	883,000	1,381,000

TABLE 3-4

**Employed college graduates, by sex, major occupation, job satisfaction, and years since highest degree: 2017**

(Number)

Sex, occupation, and job satisfaction	Total	Years since highest degree							
		< 5	5-9	10-14	15-19	20-24	25-29	30-34	≥ 35
Somewhat satisfied	11,052,000	1,993,000	2,410,000	1,725,000	1,356,000	1,122,000	789,000	718,000	939,000
Somewhat dissatisfied	2,321,000	531,000	560,000	338,000	226,000	219,000	163,000	138,000	145,000
Very dissatisfied	585,000	131,000	168,000	86,000	43,000	37,000	47,000	27,000	46,000
S&E occupations	1,966,000	400,000	441,000	313,000	238,000	182,000	172,000	108,000	112,000
Very satisfied	835,000	156,000	167,000	129,000	113,000	74,000	80,000	58,000	57,000
Somewhat satisfied	930,000	191,000	219,000	153,000	110,000	89,000	80,000	41,000	48,000
Somewhat dissatisfied	171,000	44,000	49,000	25,000	13,000	15,000	12,000	6,000	S
Very dissatisfied	31,000	9,000	7,000	5,000	S	5,000	S	S	D
Biological, agricultural, and other life scientists	292,000	80,000	73,000	41,000	32,000	19,000	18,000	12,000	17,000
Very satisfied	139,000	44,000	31,000	18,000	15,000	7,000	10,000	7,000	8,000
Somewhat satisfied	122,000	30,000	32,000	16,000	16,000	10,000	6,000	4,000	9,000
Somewhat dissatisfied	26,000	4,000	9,000	6,000	S	2,000	S	1,000	D
Very dissatisfied	4,000	S	1,000	D	D	D	D	D	D
Computer and mathematical scientists	919,000	152,000	190,000	151,000	108,000	107,000	98,000	55,000	58,000
Very satisfied	358,000	51,000	65,000	54,000	50,000	42,000	45,000	26,000	25,000
Somewhat satisfied	450,000	68,000	97,000	79,000	53,000	54,000	46,000	26,000	27,000
Somewhat dissatisfied	96,000	28,000	25,000	14,000	6,000	8,000	7,000	S	S
Very dissatisfied	14,000	4,000	2,000	S	D	S	D	D	D
Physical and related scientists	107,000	28,000	23,000	14,000	13,000	9,000	6,000	6,000	8,000
Very satisfied	48,000	14,000	8,000	7,000	7,000	2,000	3,000	2,000	3,000
Somewhat satisfied	46,000	11,000	12,000	6,000	5,000	3,000	3,000	2,000	4,000
Somewhat dissatisfied	8,000	2,000	1,000	S	1,000	D	D	D	D
Very dissatisfied	6,000	D	S	D	D	D	D	D	D
Social and related scientists	379,000	79,000	92,000	68,000	46,000	28,000	28,000	19,000	19,000
Very satisfied	180,000	25,000	38,000	36,000	25,000	15,000	13,000	14,000	15,000
Somewhat satisfied	169,000	45,000	44,000	29,000	16,000	11,000	15,000	4,000	4,000
Somewhat dissatisfied	26,000	7,000	9,000	S	5,000	S	D	D	D
Very dissatisfied	4,000	S	D	D	D	D	D	D	D
Engineers	269,000	61,000	64,000	39,000	38,000	20,000	21,000	15,000	11,000
Very satisfied	110,000	22,000	25,000	14,000	17,000	8,000	10,000	8,000	6,000
Somewhat satisfied	142,000	36,000	33,000	22,000	20,000	11,000	10,000	5,000	4,000
Somewhat dissatisfied	14,000	3,000	4,000	2,000	1,000	S	D	D	D
Very dissatisfied	3,000	D	1,000	D	D	D	D	D	D
S&E-related occupations	4,764,000	1,061,000	1,055,000	698,000	545,000	396,000	281,000	280,000	447,000
Very satisfied	2,310,000	513,000	463,000	301,000	258,000	192,000	159,000	164,000	259,000
Somewhat satisfied	2,046,000	451,000	463,000	328,000	265,000	169,000	99,000	103,000	168,000
Somewhat dissatisfied	347,000	88,000	114,000	54,000	18,000	32,000	16,000	10,000	15,000
Very dissatisfied	62,000	10,000	15,000	15,000	S	S	S	D	S
Non-S&E occupations	18,170,000	2,892,000	3,638,000	2,814,000	2,132,000	1,870,000	1,495,000	1,378,000	1,951,000
Very satisfied	7,799,000	1,029,000	1,367,000	1,246,000	918,000	803,000	710,000	661,000	1,065,000
Somewhat satisfied	8,076,000	1,351,000	1,728,000	1,244,000	982,000	865,000	610,000	573,000	723,000
Somewhat dissatisfied	1,803,000	400,000	397,000	258,000	195,000	172,000	135,000	122,000	124,000
Very dissatisfied	492,000	112,000	146,000	66,000	37,000	30,000	39,000	22,000	40,000
Male	23,323,000	3,130,000	3,850,000	3,277,000	2,765,000	2,417,000	2,202,000	2,022,000	3,660,000
Very satisfied	10,934,000	1,360,000	1,506,000	1,439,000	1,298,000	1,112,000	1,025,000	1,044,000	2,151,000
Somewhat satisfied	9,805,000	1,266,000	1,764,000	1,472,000	1,197,000	1,041,000	967,000	797,000	1,302,000
Somewhat dissatisfied	1,973,000	369,000	435,000	280,000	217,000	200,000	171,000	131,000	171,000

TABLE 3-4

**Employed college graduates, by sex, major occupation, job satisfaction, and years since highest degree: 2017**

(Number)

Sex, occupation, and job satisfaction	Total	Years since highest degree							
		< 5	5-9	10-14	15-19	20-24	25-29	30-34	≥ 35
Very dissatisfied	610,000	135,000	145,000	87,000	53,000	65,000	40,000	50,000	36,000
S&E occupations	4,803,000	846,000	925,000	748,000	562,000	504,000	434,000	348,000	437,000
Very satisfied	2,167,000	416,000	391,000	324,000	243,000	224,000	187,000	149,000	233,000
Somewhat satisfied	2,207,000	349,000	434,000	361,000	275,000	236,000	208,000	169,000	175,000
Somewhat dissatisfied	355,000	62,000	92,000	53,000	36,000	37,000	31,000	23,000	22,000
Very dissatisfied	73,000	18,000	9,000	10,000	8,000	8,000	7,000	6,000	7,000
Biological, agricultural, and other life scientists	319,000	78,000	71,000	38,000	36,000	28,000	18,000	17,000	34,000
Very satisfied	149,000	41,000	28,000	19,000	13,000	14,000	9,000	8,000	17,000
Somewhat satisfied	137,000	29,000	36,000	15,000	20,000	11,000	6,000	8,000	14,000
Somewhat dissatisfied	25,000	6,000	7,000	4,000	3,000	1,000	2,000	1,000	D
Very dissatisfied	7,000	3,000	1,000	D	D	1,000	S	D	D
Computer and mathematical scientists	2,500,000	369,000	505,000	467,000	325,000	270,000	251,000	152,000	160,000
Very satisfied	1,070,000	172,000	214,000	208,000	132,000	111,000	98,000	57,000	78,000
Somewhat satisfied	1,189,000	159,000	231,000	222,000	165,000	136,000	127,000	78,000	70,000
Somewhat dissatisfied	200,000	26,000	56,000	30,000	23,000	20,000	21,000	13,000	11,000
Very dissatisfied	42,000	12,000	4,000	7,000	5,000	S	4,000	4,000	D
Physical and related scientists	259,000	70,000	35,000	27,000	30,000	26,000	15,000	24,000	32,000
Very satisfied	116,000	20,000	13,000	9,000	19,000	13,000	8,000	11,000	21,000
Somewhat satisfied	124,000	45,000	19,000	15,000	8,000	11,000	6,000	11,000	9,000
Somewhat dissatisfied	14,000	3,000	2,000	2,000	2,000	1,000	S	S	1,000
Very dissatisfied	5,000	D	1,000	D	S	D	D	D	D
Social and related scientists	266,000	80,000	44,000	26,000	26,000	21,000	21,000	14,000	32,000
Very satisfied	167,000	S	22,000	8,000	13,000	13,000	15,000	8,000	24,000
Somewhat satisfied	86,000	14,000	19,000	15,000	12,000	8,000	6,000	5,000	7,000
Somewhat dissatisfied	13,000	3,000	3,000	2,000	1,000	S	D	D	S
Very dissatisfied	1,000	D	D	D	D	D	D	D	D
Engineers	1,459,000	249,000	269,000	190,000	144,000	159,000	129,000	140,000	179,000
Very satisfied	666,000	119,000	113,000	79,000	66,000	74,000	57,000	65,000	93,000
Somewhat satisfied	671,000	102,000	129,000	94,000	70,000	69,000	63,000	68,000	74,000
Somewhat dissatisfied	104,000	25,000	25,000	14,000	7,000	14,000	6,000	6,000	7,000
Very dissatisfied	18,000	3,000	2,000	2,000	S	2,000	S	S	3,000
S&E-related occupations	3,507,000	527,000	569,000	488,000	406,000	422,000	312,000	286,000	497,000
Very satisfied	1,786,000	238,000	231,000	263,000	212,000	201,000	166,000	163,000	310,000
Somewhat satisfied	1,425,000	198,000	289,000	199,000	146,000	186,000	126,000	103,000	179,000
Somewhat dissatisfied	229,000	60,000	36,000	21,000	44,000	29,000	18,000	13,000	7,000
Very dissatisfied	68,000	31,000	13,000	5,000	4,000	6,000	S	S	*
Non-S&E occupations	15,013,000	1,757,000	2,355,000	2,042,000	1,798,000	1,491,000	1,456,000	1,388,000	2,727,000
Very satisfied	6,982,000	706,000	884,000	852,000	842,000	686,000	672,000	732,000	1,608,000
Somewhat satisfied	6,173,000	718,000	1,041,000	913,000	777,000	620,000	633,000	524,000	948,000
Somewhat dissatisfied	1,389,000	246,000	307,000	206,000	137,000	134,000	121,000	95,000	142,000
Very dissatisfied	470,000	86,000	123,000	71,000	41,000	51,000	31,000	36,000	29,000

\* = 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.

**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, 2017.



TABLE 4-1

**Median salary of full-time employed college graduates, by major occupation, age, level of highest degree, and sex: 2017**

(Dollars)

Occupation and age	All degrees			Bachelor's			Master's			Doctorate			Professional		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
All occupations, all ages	70,000	60,000	85,000	63,000	55,000	75,000	75,000	65,000	93,000	97,000	85,000	101,000	125,000	105,000	149,000
29 and younger	48,000	43,000	52,000	45,000	41,000	50,000	52,000	47,000	60,000	65,000	62,000	65,000	64,000	60,000	67,000
30-39	67,000	60,000	75,000	62,000	55,000	69,000	70,000	64,000	86,000	80,000	75,000	85,000	100,000	96,000	117,000
40-49	80,000	65,000	97,000	74,000	58,000	90,000	83,000	70,000	105,000	100,000	90,000	108,000	148,000	120,000	157,000
50-75	82,000	69,000	100,000	74,000	62,000	90,000	86,000	72,000	103,000	103,000	90,000	114,000	160,000	127,000	172,000
S&E occupations	90,000	78,000	95,000	85,000	73,000	90,000	98,000	81,000	105,000	99,000	85,000	103,000	75,000	72,000	83,000
29 and younger	64,000	58,000	66,000	61,000	58,000	64,000	73,000	68,000	75,000	59,000	50,000	65,000	D	D	D
30-39	86,000	75,000	90,000	84,000	74,000	88,000	91,000	80,000	99,000	80,000	75,000	85,000	63,000	57,000	82,000
40-49	100,000	90,000	105,000	99,000	85,000	100,000	109,000	94,000	115,000	100,000	91,000	104,000	99,000	94,000	133,000
50-75	104,000	86,000	110,000	100,000	80,000	103,000	109,000	90,000	118,000	115,000	98,000	120,000	80,000	112,000	62,000
Biological, agricultural, and other life scientists	60,000	56,000	61,000	48,000	45,000	52,000	60,000	60,000	64,000	80,000	78,000	83,000	65,000	62,000	65,000
29 and younger	38,000	35,000	43,000	37,000	34,000	44,000	34,000	30,000	39,000	50,000	49,000	50,000	D	D	D
30-39	55,000	55,000	55,000	50,000	49,000	52,000	54,000	55,000	48,000	60,000	59,000	57,000	S	D	S
40-49	88,000	89,000	87,000	72,000	73,000	71,000	84,000	83,000	85,000	91,000	91,000	90,000	66,000	S	121,000
50-75	95,000	85,000	95,000	75,000	87,000	70,000	84,000	72,000	89,000	106,000	96,000	110,000	65,000	100,000	58,000
Computer and mathematical scientists	95,000	82,000	100,000	90,000	79,000	95,000	105,000	90,000	110,000	119,000	102,000	124,000	100,000	S	98,000
29 and younger	73,000	72,000	74,000	70,000	67,000	70,000	83,000	83,000	83,000	114,000	D	115,000	D	D	D
30-39	92,000	80,000	95,000	86,000	75,000	90,000	100,000	90,000	104,000	107,000	100,000	120,000	S	D	S
40-49	104,000	93,000	109,000	98,000	85,000	102,000	115,000	100,000	120,000	116,000	110,000	130,000	S	D	D
50-75	100,000	82,000	109,000	95,000	80,000	101,000	112,000	86,000	119,000	120,000	97,000	126,000	93,000	S	59,000
Physical and related scientists	75,000	62,000	80,000	60,000	58,000	60,000	73,000	60,000	77,000	100,000	80,000	107,000	S	D	S
29 and younger	36,000	41,000	33,000	33,000	33,000	30,000	41,000	46,000	33,000	57,000	S	59,000	D	D	D
30-39	68,000	70,000	67,000	60,000	58,000	60,000	74,000	75,000	71,000	84,000	70,000	86,000	D	D	D
40-49	81,000	76,000	81,000	80,000	63,000	80,000	88,000	91,000	81,000	99,000	80,000	100,000	D	D	D
50-75	100,000	72,000	105,000	76,000	68,000	79,000	85,000	S	94,000	119,000	103,000	119,000	D	D	D
Social and related scientists	70,000	70,000	73,000	40,000	52,000	S	71,000	70,000	79,000	85,000	80,000	91,000	68,000	58,000	71,000
29 and younger	35,000	39,000	S	S	S	S	51,000	51,000	S	59,000	40,000	S	D	D	D
30-39	65,000	61,000	69,000	41,000	53,000	S	69,000	65,000	80,000	72,000	72,000	73,000	57,000	S	D
40-49	81,000	80,000	85,000	74,000	73,000	S	79,000	80,000	74,000	89,000	88,000	88,000	88,000	86,000	S
50-75	92,000	83,000	100,000	66,000	S	103,000	89,000	89,000	89,000	100,000	87,000	106,000	76,000	101,000	S
Engineers	96,000	90,000	97,000	90,000	86,000	91,000	104,000	97,000	105,000	114,000	110,000	117,000	D	D	S
29 and younger	70,000	69,000	70,000	70,000	70,000	70,000	74,000	67,000	75,000	91,000	D	78,000	D	D	D
30-39	91,000	94,000	90,000	89,000	90,000	87,000	98,000	98,000	98,000	99,000	103,000	97,000	D	D	D
40-49	109,000	101,000	109,000	102,000	99,000	103,000	115,000	107,000	118,000	121,000	99,000	124,000	D	D	D

TABLE 4-1

**Median salary of full-time employed college graduates, by major occupation, age, level of highest degree, and sex: 2017**

(Dollars)

Occupation and age	All degrees			Bachelor's			Master's			Doctorate			Professional		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
50–75	115,000	119,000	115,000	110,000	110,000	109,000	121,000	125,000	120,000	135,000	151,000	134,000	D	D	D
S&E-related occupations	80,000	70,000	95,000	67,000	63,000	80,000	80,000	75,000	95,000	103,000	92,000	120,000	147,000	110,000	189,000
29 and younger	53,000	53,000	55,000	50,000	50,000	49,000	56,000	56,000	60,000	64,000	62,000	67,000	59,000	55,000	68,000
30–39	71,000	70,000	76,000	62,000	62,000	60,000	78,000	70,000	82,000	96,000	85,000	101,000	118,000	110,000	120,000
40–49	90,000	76,000	110,000	80,000	67,000	92,000	90,000	79,000	100,000	104,000	99,000	113,000	183,000	120,000	225,000
50–75	92,000	80,000	115,000	81,000	74,000	95,000	90,000	82,000	105,000	115,000	89,000	142,000	199,000	135,000	207,000
Non-S&E occupations	63,000	56,000	76,000	58,000	50,000	70,000	70,000	62,000	88,000	90,000	81,000	100,000	115,000	97,000	125,000
29 and younger	42,000	40,000	50,000	41,000	40,000	47,000	47,000	43,000	52,000	72,000	71,000	D	70,000	75,000	65,000
30–39	61,000	56,000	68,000	58,000	51,000	63,000	65,000	60,000	77,000	74,000	68,000	82,000	89,000	82,000	104,000
40–49	72,000	60,000	90,000	65,000	53,000	82,000	75,000	64,000	98,000	96,000	80,000	112,000	122,000	132,000	120,000
50–75	75,000	63,000	90,000	69,000	57,000	81,000	80,000	69,000	97,000	93,000	89,000	99,000	144,000	122,000	150,000

D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&amp;E = science and engineering.

**Note(s):**

Median salaries are rounded to the nearest \$1,000. Full-time employed college graduates are individuals working 35 or more hours per week on their principal job.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

TABLE 4-2

**Median salary of full-time employed college graduates, by sex, major occupation, age, ethnicity, race, disability status, and citizenship status: 2017**

(Dollars)

Sex, occupation, and age	Total	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	U.S. citizen	Non-U.S. citizen
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
Both sexes, all occupations	70,000	60,000	59,000	86,000	56,000	85,000	72,000	64,000	71,000	64,000	70,000	85,000
29 and younger	48,000	45,000	S	57,000	40,000	28,000	48,000	50,000	50,000	34,000	47,000	59,000
30-39	67,000	60,000	66,000	88,000	54,000	92,000	68,000	77,000	68,000	56,000	65,000	91,000
40-49	80,000	72,000	62,000	100,000	62,000	86,000	80,000	60,000	81,000	72,000	80,000	100,000
50-75	82,000	72,000	49,000	90,000	65,000	85,000	85,000	70,000	85,000	73,000	82,000	64,000
S&E occupations	90,000	78,000	79,000	100,000	76,000	83,000	90,000	80,000	90,000	89,000	90,000	95,000
29 and younger	64,000	52,000	S	71,000	52,000	D	65,000	57,000	65,000	S	62,000	72,000
30-39	86,000	75,000	96,000	95,000	68,000	115,000	84,000	85,000	87,000	74,000	82,000	98,000
40-49	100,000	93,000	S	110,000	84,000	83,000	100,000	97,000	100,000	100,000	100,000	105,000
50-75	104,000	95,000	100,000	110,000	90,000	80,000	105,000	112,000	105,000	99,000	104,000	100,000
Biological, agricultural, and other life scientists	60,000	48,000	*	56,000	73,000	75,000	61,000	59,000	60,000	59,000	62,000	52,000
29 and younger	38,000	33,000	D	31,000	29,000	D	40,000	38,000	38,000	39,000	39,000	28,000
30-39	55,000	48,000	D	50,000	72,000	S	56,000	73,000	55,000	53,000	59,000	50,000
40-49	88,000	S	D	86,000	76,000	D	89,000	98,000	89,000	S	89,000	73,000
50-75	95,000	85,000	D	80,000	101,000	D	95,000	D	95,000	90,000	95,000	83,000
Computer and mathematical scientists	95,000	80,000	S	102,000	70,000	81,000	95,000	85,000	95,000	93,000	94,000	100,000
29 and younger	73,000	65,000	D	80,000	51,000	S	73,000	58,000	73,000	75,000	71,000	84,000
30-39	92,000	79,000	S	100,000	62,000	D	90,000	79,000	93,000	78,000	84,000	105,000
40-49	104,000	86,000	D	111,000	79,000	D	105,000	93,000	103,000	106,000	102,000	109,000
50-75	100,000	84,000	D	120,000	85,000	D	101,000	117,000	100,000	101,000	101,000	100,000
Physical and related scientists	75,000	74,000	S	64,000	65,000	S	76,000	68,000	75,000	76,000	75,000	65,000
29 and younger	36,000	S	D	28,000	28,000	D	38,000	S	38,000	S	39,000	25,000
30-39	68,000	56,000	D	55,000	64,000	D	70,000	85,000	67,000	77,000	68,000	65,000
40-49	81,000	80,000	D	93,000	S	D	88,000	D	81,000	83,000	81,000	96,000
50-75	100,000	62,000	D	100,000	111,000	D	100,000	S	102,000	87,000	100,000	122,000
Social and related scientists	70,000	S	S	80,000	80,000	S	72,000	72,000	73,000	S	70,000	89,000
29 and younger	35,000	S	D	61,000	54,000	D	38,000	D	43,000	S	38,000	27,000
30-39	65,000	70,000	D	75,000	66,000	D	62,000	67,000	65,000	62,000	63,000	89,000
40-49	81,000	127,000	D	80,000	74,000	D	80,000	*	84,000	66,000	81,000	107,000
50-75	92,000	88,000	*	99,000	103,000	D	90,000	77,000	95,000	86,000	92,000	101,000
Engineers	96,000	90,000	95,000	99,000	90,000	108,000	97,000	86,000	96,000	96,000	97,000	90,000
29 and younger	70,000	71,000	D	65,000	66,000	D	70,000	68,000	70,000	69,000	70,000	69,000
30-39	91,000	94,000	D	99,000	84,000	*	90,000	90,000	92,000	84,000	90,000	98,000

TABLE 4-2

**Median salary of full-time employed college graduates, by sex, major occupation, age, ethnicity, race, disability status, and citizenship status: 2017**

(Dollars)

Sex, occupation, and age	Total	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	U.S. citizen	Non-U.S. citizen	
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race					
40–49	109,000	106,000	S	115,000	90,000	109,000	107,000	107,000	109,000	99,000	108,000	114,000	
50–75	115,000	110,000	D	110,000	101,000	D	117,000	112,000	116,000	105,000	115,000	103,000	
S&E-related occupations	80,000	70,000		80,000	92,000	61,000	79,000	79,000	77,000	80,000	73,000	78,000	97,000
29 and younger	53,000	53,000	D	55,000	49,000	S	53,000	62,000	53,000	46,000	53,000	42,000	
30–39	71,000	62,000	S	90,000	55,000	89,000	70,000	83,000	72,000	56,000	70,000	99,000	
40–49	90,000	90,000	D	110,000	71,000	71,000	88,000	95,000	90,000	84,000	88,000	138,000	
50–75	92,000	89,000	S	100,000	85,000	S	92,000	78,000	95,000	79,000	92,000	100,000	
Non-S&E occupations	63,000	55,000		50,000	65,000	50,000	85,000	67,000	58,000	65,000	59,000	63,000	60,000
29 and younger	42,000	43,000	S	50,000	39,000	27,000	42,000	42,000	44,000	34,000	42,000	50,000	
30–39	61,000	55,000		73,000	70,000	48,000	91,000	62,000	76,000	62,000	54,000	60,000	77,000
40–49	72,000	64,000		61,000	89,000	56,000	110,000	75,000	56,000	73,000	62,000	71,000	77,000
50–75	75,000	64,000		47,000	61,000	59,000	100,000	79,000	68,000	75,000	69,000	75,000	49,000
Female	60,000	53,000		50,000	75,000	54,000	85,000	60,000	60,000	60,000	54,000	60,000	69,000
29 and younger	43,000	42,000		52,000	55,000	40,000	25,000	42,000	49,000	45,000	32,000	42,000	55,000
30–39	60,000	55,000		66,000	80,000	50,000	91,000	60,000	69,000	61,000	54,000	60,000	74,000
40–49	65,000	60,000	S	91,000	55,000	84,000	65,000	53,000	67,000	54,000	65,000	71,000	
50–75	69,000	55,000		42,000	75,000	63,000	99,000	70,000	66,000	70,000	61,000	69,000	63,000
S&E occupations	78,000	72,000		96,000	88,000	68,000	74,000	76,000	62,000	78,000	80,000	78,000	80,000
29 and younger	58,000	59,000	D	71,000	40,000	D	58,000	49,000	59,000	39,000	58,000	71,000	
30–39	75,000	71,000	S	89,000	58,000	D	73,000	67,000	75,000	79,000	72,000	84,000	
40–49	90,000	90,000	*	100,000	90,000	S	80,000	99,000	90,000	70,000	90,000	90,000	
50–75	86,000	77,000	D	92,000	S	S	86,000	78,000	85,000	88,000	86,000	76,000	
Biological, agricultural, and other life scientists	56,000	48,000	D	55,000	54,000	S	60,000	S	59,000	48,000	60,000	52,000	
29 and younger	35,000	30,000	D	31,000	S	D	35,000	36,000	35,000	S	35,000	30,000	
30–39	55,000	49,000	D	52,000	66,000	S	55,000	S	55,000	55,000	55,000	52,000	
40–49	89,000	44,000	D	94,000	85,000	D	89,000	S	90,000	46,000	89,000	86,000	
50–75	85,000	S	D	75,000	112,000	D	98,000	D	86,000	61,000	86,000	S	
Computer and mathematical scientists	82,000	80,000	S	90,000	66,000	S	80,000	61,000	82,000	86,000	81,000	85,000	
29 and younger	72,000	100,000	D	75,000	51,000	D	63,000	47,000	72,000	S	69,000	79,000	
30–39	80,000	80,000	D	89,000	58,000	D	80,000	51,000	81,000	79,000	80,000	89,000	
40–49	93,000	80,000	D	100,000	92,000	D	77,000	D	92,000	101,000	93,000	84,000	
50–75	82,000	59,000	D	97,000	S	D	82,000	S	80,000	89,000	82,000	66,000	
Physical and related scientists	62,000	53,000	D	62,000	65,000	*	64,000	58,000	64,000	60,000	63,000	57,000	

TABLE 4-2

**Median salary of full-time employed college graduates, by sex, major occupation, age, ethnicity, race, disability status, and citizenship status: 2017**

(Dollars)

Sex, occupation, and age	Total	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	U.S. citizen	Non-U.S. citizen
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
29 and younger	41,000	S	D	43,000	D	D	41,000	S	42,000	S	41,000	43,000
30-39	70,000	60,000	D	48,000	56,000	D	70,000	89,000	68,000	S	70,000	49,000
40-49	76,000	60,000	D	79,000	D	D	74,000	D	80,000	45,000	75,000	89,000
50-75	72,000	S	D	84,000	96,000	D	69,000	D	76,000	59,000	72,000	D
Social and related scientists	70,000	70,000	*	79,000	73,000	D	69,000	59,000	70,000	62,000	70,000	68,000
29 and younger	39,000	51,000	D	65,000	44,000	D	38,000	D	39,000	S	39,000	S
30-39	61,000	62,000	D	59,000	65,000	D	60,000	62,000	62,000	53,000	60,000	65,000
40-49	80,000	128,000	D	80,000	69,000	D	78,000	*	80,000	60,000	80,000	79,000
50-75	83,000	94,000	D	75,000	93,000	D	81,000	S	82,000	88,000	84,000	D
Engineers	90,000	86,000	D	99,000	84,000	D	90,000	86,000	90,000	82,000	90,000	90,000
29 and younger	69,000	65,000	D	60,000	64,000	D	73,000	S	70,000	53,000	70,000	S
30-39	94,000	95,000	D	107,000	85,000	D	90,000	86,000	95,000	86,000	91,000	107,000
40-49	101,000	105,000	D	119,000	98,000	D	98,000	D	105,000	S	100,000	115,000
50-75	119,000	164,000	D	101,000	S	D	124,000	D	119,000	103,000	119,000	99,000
S&E-related occupations	70,000	62,000	66,000	86,000	60,000	89,000	68,000	83,000	70,000	65,000	69,000	78,000
29 and younger	53,000	53,000	S	54,000	49,000	D	52,000	60,000	53,000	43,000	53,000	40,000
30-39	70,000	60,000	S	89,000	55,000	D	68,000	88,000	70,000	55,000	68,000	82,000
40-49	76,000	80,000	D	90,000	59,000	S	74,000	97,000	76,000	80,000	75,000	89,000
50-75	80,000	62,000	S	99,000	83,000	S	78,000	62,000	80,000	69,000	80,000	85,000
Non-S&E occupations	56,000	50,000	47,000	65,000	48,000	85,000	57,000	53,000	56,000	50,000	56,000	55,000
29 and younger	40,000	40,000	36,000	50,000	39,000	25,000	39,000	44,000	40,000	30,000	40,000	49,000
30-39	56,000	51,000	81,000	70,000	46,000	91,000	57,000	65,000	57,000	51,000	56,000	55,000
40-49	60,000	56,000	S	83,000	48,000	S	60,000	48,000	60,000	52,000	60,000	50,000
50-75	63,000	55,000	40,000	62,000	60,000	S	65,000	66,000	64,000	60,000	63,000	49,000
Male	85,000	74,000	62,000	95,000	61,000	83,000	85,000	72,000	85,000	78,000	84,000	95,000
29 and younger	52,000	50,000	S	60,000	39,000	S	52,000	50,000	52,000	41,000	52,000	59,000
30-39	75,000	68,000	74,000	91,000	57,000	S	75,000	84,000	76,000	62,000	72,000	100,000
40-49	97,000	89,000	61,000	114,000	74,000	106,000	98,000	90,000	97,000	90,000	96,000	115,000
50-75	100,000	95,000	72,000	100,000	70,000	58,000	100,000	111,000	100,000	88,000	100,000	69,000
S&E occupations	95,000	79,000	75,000	100,000	80,000	84,000	96,000	90,000	95,000	92,000	95,000	99,000
29 and younger	66,000	52,000	S	72,000	54,000	S	68,000	60,000	67,000	S	65,000	74,000
30-39	90,000	80,000	108,000	100,000	77,000	118,000	89,000	90,000	90,000	72,000	85,000	102,000
40-49	105,000	93,000	S	115,000	82,000	83,000	107,000	96,000	105,000	100,000	105,000	110,000
50-75	110,000	99,000	94,000	116,000	95,000	68,000	110,000	114,000	110,000	105,000	110,000	109,000

TABLE 4-2

**Median salary of full-time employed college graduates, by sex, major occupation, age, ethnicity, race, disability status, and citizenship status: 2017**

(Dollars)

Sex, occupation, and age	Total	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	U.S. citizen	Non-U.S. citizen
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
Biological, agricultural, and other life scientists	61,000	54,000	*	58,000	90,000	*	62,000	56,000	60,000	76,000	65,000	52,000
29 and younger	43,000	32,000	D	33,000	D	D	44,000	S	43,000	S	44,000	28,000
30-39	55,000	47,000	D	48,000	S	D	57,000	64,000	55,000	36,000	60,000	49,000
40-49	87,000	91,000	D	79,000	D	D	88,000	S	88,000	72,000	89,000	72,000
50-75	95,000	100,000	D	88,000	99,000	D	95,000	D	95,000	94,000	95,000	90,000
Computer and mathematical scientists	100,000	79,000	S	107,000	73,000	75,000	100,000	98,000	100,000	100,000	98,000	107,000
29 and younger	74,000	60,000	D	85,000	51,000	D	74,000	68,000	74,000	76,000	72,000	85,000
30-39	95,000	75,000	S	105,000	69,000	D	95,000	98,000	95,000	74,000	88,000	110,000
40-49	109,000	93,000	D	120,000	72,000	D	110,000	92,000	109,000	108,000	108,000	116,000
50-75	109,000	92,000	D	121,000	90,000	D	108,000	123,000	108,000	110,000	109,000	106,000
Physical and related scientists	80,000	80,000	S	64,000	65,000	D	86,000	70,000	80,000	98,000	81,000	73,000
29 and younger	33,000	D	D	24,000	D	D	34,000	D	33,000	S	34,000	24,000
30-39	67,000	51,000	D	61,000	64,000	D	70,000	D	66,000	100,000	66,000	67,000
40-49	81,000	80,000	D	103,000	D	D	92,000	D	81,000	131,000	81,000	96,000
50-75	105,000	63,000	D	100,000	110,000	D	107,000	D	107,000	98,000	104,000	149,000
Social and related scientists	73,000	S	S	104,000	101,000	D	80,000	75,000	85,000	S	71,000	95,000
29 and younger	S	S	D	S	S	D	44,000	D	52,000	S	S	S
30-39	69,000	77,000	D	87,000	S	D	64,000	69,000	70,000	60,000	67,000	90,000
40-49	85,000	81,000	D	115,000	S	D	84,000	D	88,000	73,000	83,000	104,000
50-75	100,000	85,000	D	106,000	134,000	D	99,000	D	101,000	78,000	99,000	150,000
Engineers	97,000	90,000	75,000	99,000	90,000	108,000	99,000	85,000	97,000	96,000	98,000	90,000
29 and younger	70,000	74,000	D	70,000	71,000	D	70,000	67,000	70,000	70,000	70,000	70,000
30-39	90,000	90,000	D	95,000	84,000	*	90,000	90,000	91,000	81,000	90,000	94,000
40-49	109,000	106,000	S	113,000	90,000	109,000	109,000	107,000	110,000	100,000	109,000	114,000
50-75	115,000	109,000	D	110,000	101,000	D	117,000	111,000	116,000	105,000	115,000	106,000
S&E-related occupations	95,000	92,000	163,000	109,000	64,000	70,000	95,000	73,000	95,000	84,000	93,000	107,000
29 and younger	55,000	54,000	D	57,000	39,000	S	55,000	68,000	55,000	45,000	55,000	46,000
30-39	76,000	77,000	S	103,000	54,000	D	74,000	63,000	77,000	70,000	72,000	100,000
40-49	110,000	92,000	D	147,000	93,000	S	107,000	68,000	113,000	100,000	106,000	157,000
50-75	115,000	103,000	S	110,000	98,000	D	118,000	128,000	119,000	95,000	115,000	109,000

TABLE 4-2

**Median salary of full-time employed college graduates, by sex, major occupation, age, ethnicity, race, disability status, and citizenship status: 2017**

(Dollars)

Sex, occupation, and age	Total	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	U.S. citizen	Non-U.S. citizen
			American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
Non-S&E occupations	76,000	69,000	59,000	70,000	56,000	S	80,000	62,000	78,000	71,000	76,000	73,000
29 and younger	50,000	50,000	S	45,000	30,000	S	50,000	42,000	50,000	41,000	49,000	50,000
30–39	68,000	62,000	64,000	69,000	55,000	S	70,000	84,000	69,000	59,000	68,000	98,000
40–49	90,000	76,000	61,000	89,000	70,000	S	91,000	90,000	90,000	87,000	90,000	95,000
50–75	90,000	93,000	54,000	60,000	59,000	56,000	93,000	S	91,000	80,000	90,000	49,000

\* = 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.

**Note(s):**

Median salaries are rounded to the nearest \$1,000. Full-time employed college graduates are individuals working 35 or more hours per week on their principal job. Hispanic or Latino may be any race; race categories exclude Hispanic origin. 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. Those respondents who answered "moderate," "severe," or "unable to do" for an activity were classified as having a disability.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

TABLE 4-3

**Full-time employed scientists and engineers and their median salary, by major field of highest degree, employment sector, and primary work activity: 2017**

(Number and dollars)

Field of highest degree and employment sector	Number	Salary	Primary work activity									
			Computer applications		Management and administration <sup>a</sup>		Research and development <sup>b</sup>		Teaching		Other <sup>c</sup>	
			Number	Salary	Number	Salary	Number	Salary	Number	Salary	Number	Salary
All fields	6,169,000	90,000	1,688,000	100,000	1,357,000	96,000	2,074,000	86,000	276,000	66,000	774,000	80,000
Business or industry	4,570,000	95,000	1,499,000	100,000	1,029,000	96,000	1,443,000	95,000	43,000	62,000	557,000	85,000
4-year educational institution	696,000	63,000	62,000	75,000	59,000	80,000	357,000	50,000	177,000	71,000	40,000	54,000
2-year college or precollege educational institution	142,000	65,000	14,000	61,000	18,000	65,000	13,000	63,000	45,000	59,000	53,000	70,000
Government	761,000	87,000	113,000	80,000	251,000	98,000	262,000	81,000	11,000	108,000	124,000	80,000
S&E fields	4,643,000	93,000	1,296,000	100,000	906,000	100,000	1,666,000	89,000	200,000	71,000	576,000	83,000
Business or industry	3,412,000	100,000	1,172,000	103,000	666,000	102,000	1,140,000	96,000	17,000	50,000	418,000	85,000
4-year educational institution	568,000	62,000	47,000	78,000	40,000	97,000	310,000	47,000	141,000	72,000	30,000	51,000
2-year college or precollege educational institution	99,000	65,000	5,000	60,000	13,000	63,000	9,000	62,000	32,000	61,000	41,000	70,000
Government	564,000	90,000	73,000	89,000	187,000	98,000	208,000	82,000	S	S	87,000	87,000
Biological, agricultural, and environmental life sciences	558,000	65,000	39,000	86,000	95,000	75,000	319,000	60,000	36,000	56,000	70,000	59,000
Business or industry	275,000	75,000	35,000	94,000	60,000	70,000	136,000	77,000	S	S	42,000	59,000
4-year educational institution	170,000	50,000	S	S	9,000	79,000	123,000	47,000	24,000	61,000	11,000	43,000
2-year college or precollege educational institution	10,000	54,000	D	D	D	D	D	D	9,000	54,000	D	D
Government	103,000	66,000	1,000	78,000	25,000	78,000	60,000	62,000	1,000	D	16,000	65,000
Computer and mathematical sciences	1,353,000	100,000	736,000	100,000	207,000	110,000	260,000	100,000	48,000	71,000	102,000	84,000
Business or industry	1,120,000	101,000	664,000	100,000	156,000	114,000	214,000	104,000	6,000	D	80,000	85,000
4-year educational institution	87,000	73,000	29,000	78,000	7,000	108,000	21,000	68,000	25,000	70,000	5,000	D
2-year college or precollege educational institution	25,000	64,000	2,000	52,000	6,000	71,000	S	S	10,000	61,000	S	S
Government	121,000	98,000	41,000	90,000	37,000	109,000	23,000	93,000	D	D	14,000	95,000



TABLE 4-3

**Full-time employed scientists and engineers and their median salary, by major field of highest degree, employment sector, and primary work activity: 2017**

(Number and dollars)

Field of highest degree and employment sector	Number	Salary	Primary work activity									
			Computer applications		Management and administration <sup>a</sup>		Research and development <sup>b</sup>		Teaching		Other <sup>c</sup>	
			Number	Salary	Number	Salary	Number	Salary	Number	Salary	Number	Salary
Physical and related sciences	324,000	85,000	29,000	90,000	54,000	95,000	179,000	85,000	23,000	77,000	41,000	70,000
Business or industry	186,000	100,000	24,000	92,000	41,000	96,000	90,000	107,000	D	D	31,000	60,000
4-year educational institution	90,000	51,000	2,000	45,000	4,000	90,000	63,000	34,000	19,000	79,000	2,000	D
2-year college or precollege educational institution	3,000	66,000	D	D	D	D	D	D	3,000	55,000	D	D
Government	44,000	89,000	3,000	89,000	8,000	105,000	25,000	84,000	D	D	8,000	88,000
Social and related sciences	555,000	80,000	73,000	85,000	98,000	89,000	172,000	78,000	63,000	70,000	149,000	79,000
Business or industry	299,000	85,000	62,000	84,000	62,000	84,000	91,000	90,000	4,000	D	79,000	83,000
4-year educational institution	117,000	71,000	S	S	10,000	78,000	44,000	65,000	52,000	71,000	10,000	65,000
2-year college or precollege educational institution	53,000	70,000	D	D	6,000	44,000	4,000	53,000	7,000	63,000	36,000	70,000
Government	86,000	82,000	10,000	88,000	20,000	100,000	33,000	62,000	D	D	23,000	83,000
Engineering	1,853,000	100,000	420,000	105,000	453,000	104,000	737,000	94,000	30,000	92,000	214,000	95,000
Business or industry	1,532,000	100,000	386,000	107,000	346,000	105,000	608,000	97,000	5,000	S	186,000	95,000
4-year educational institution	103,000	76,000	13,000	76,000	9,000	111,000	59,000	42,000	20,000	90,000	2,000	67,000
2-year college or precollege educational institution	8,000	60,000	D	D	D	D	S	S	2,000	47,000	D	D
Government	210,000	97,000	18,000	91,000	97,000	98,000	68,000	92,000	D	D	25,000	95,000
S&E-related fields	338,000	90,000	88,000	100,000	71,000	90,000	124,000	84,000	13,000	59,000	42,000	75,000
Business or industry	260,000	94,000	84,000	100,000	59,000	90,000	83,000	89,000	S	S	33,000	80,000
4-year educational institution	32,000	63,000	2,000	94,000	2,000	D	20,000	61,000	5,000	71,000	S	S
2-year college or precollege educational institution	11,000	50,000	D	D	D	D	D	D	7,000	S	S	S
Government	36,000	80,000	2,000	69,000	9,000	84,000	19,000	78,000	D	D	6,000	81,000

TABLE 4-3

**Full-time employed scientists and engineers and their median salary, by major field of highest degree, employment sector, and primary work activity: 2017**

(Number and dollars)

Field of highest degree and employment sector	Number	Salary	Primary work activity									
			Computer applications		Management and administration <sup>a</sup>		Research and development <sup>b</sup>		Teaching		Other <sup>c</sup>	
			Number	Salary	Number	Salary	Number	Salary	Number	Salary	Number	Salary
Non-S&E fields	1,189,000	80,000	304,000	90,000	381,000	82,000	284,000	80,000	63,000	63,000	156,000	70,000
Business or industry	898,000	82,000	243,000	94,000	304,000	80,000	219,000	81,000	25,000	61,000	106,000	79,000
4-year educational institution	96,000	64,000	13,000	60,000	17,000	74,000	27,000	58,000	30,000	66,000	8,000	54,000
2-year college or precollege educational institution	33,000	65,000	10,000	55,000	D	D	S	S	7,000	57,000	10,000	62,000
Government	161,000	79,000	39,000	71,000	55,000	98,000	34,000	80,000	S	S	32,000	58,000

D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&amp;E = science and engineering.

<sup>a</sup> Management and administration includes respondents who reported the following work activities: accounting, finance, or contracts; human resources; quality or productivity management; sales and marketing; or managing and supervising.<sup>b</sup> Research and development includes basic research, applied research, development, and design.<sup>c</sup> Other work activities includes production, operations, maintenance, professional services, and other activities not broken out separately.**Note(s):**

Population counts are rounded to the nearest 1,000. Detail may not add to total because of rounding. Median salaries are rounded to the nearest \$1,000. Scientists and engineers are bachelor's and higher degreed individuals living in the United States employed in an S&amp;E occupation. Persons are considered to be employed full time if they are working 35 or more hours per week on their principal job. Four-year educational institution includes medical schools and university-affiliated research institutes. Government includes federal (civilian), military, state, and local employers.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

TABLE 5-1

**College graduates, by age, sex, ethnicity, race, disability status, and age at onset of disability, broad occupation, labor force status, and median salary: 2017**

(Number and dollars)

Age, sex, ethnicity, race, disability status, and age at onset of disability	Total	Employed in all occupations			Employed in S&E occupations		Employed in S&E-related occupations		Employed in non-S&E occupations		Unemployed <sup>a</sup>	Not in labor force <sup>b</sup>				Full-time employed salary (\$)
		Employed	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time		Total	Student	Retired	Not seeking employment, all other reasons	
75 and younger	61,220,000	48,223,000	40,172,000	8,051,000	6,169,000	600,000	6,803,000	1,468,000	27,200,000	5,983,000	1,513,000	11,483,000	591,000	7,544,000	3,349,000	70,000
Female	32,719,000	24,900,000	19,471,000	5,429,000	1,695,000	271,000	3,632,000	1,133,000	14,144,000	4,026,000	889,000	6,929,000	331,000	3,889,000	2,710,000	60,000
Male	28,501,000	23,323,000	20,701,000	2,622,000	4,474,000	329,000	3,172,000	335,000	13,056,000	1,957,000	624,000	4,554,000	260,000	3,655,000	639,000	85,000
Hispanic or Latino	5,142,000	4,280,000	3,592,000	688,000	459,000	46,000	595,000	107,000	2,538,000	535,000	181,000	681,000	62,000	299,000	320,000	60,000
Not Hispanic or Latino																
American Indian or Alaska Native	171,000	121,000	107,000	14,000	12,000	S	21,000	S	75,000	5,000	S	37,000	D	34,000	S	59,000
Asian	5,718,000	4,498,000	3,871,000	627,000	1,242,000	96,000	890,000	151,000	1,739,000	380,000	203,000	1,016,000	147,000	357,000	513,000	86,000
Black or African American	4,662,000	3,805,000	3,245,000	561,000	357,000	25,000	539,000	72,000	2,349,000	463,000	213,000	644,000	50,000	461,000	133,000	56,000
Native Hawaiian or Other Pacific Islander	171,000	137,000	124,000	S	23,000	S	15,000	D	87,000	S	S	27,000	S	17,000	8,000	85,000
White	44,243,000	34,435,000	28,421,000	6,014,000	3,976,000	421,000	4,619,000	1,107,000	19,826,000	4,486,000	854,000	8,953,000	308,000	6,305,000	2,341,000	72,000
More than one race	1,114,000	946,000	811,000	135,000	100,000	9,000	124,000	23,000	586,000	103,000	44,000	125,000	22,000	71,000	31,000	64,000
Without disability	52,648,000	42,610,000	35,666,000	6,944,000	5,592,000	527,000	6,217,000	1,315,000	23,856,000	5,102,000	1,278,000	8,760,000	553,000	5,709,000	2,499,000	71,000
With disability	8,572,000	5,613,000	4,506,000	1,107,000	577,000	72,000	586,000	153,000	3,344,000	882,000	236,000	2,723,000	38,000	1,835,000	850,000	64,000
Age at onset of disability																
Since birth	631,000	433,000	369,000	64,000	54,000	6,000	48,000	4,000	268,000	53,000	14,000	184,000	S	76,000	95,000	48,000
1-9	684,000	534,000	419,000	115,000	86,000	8,000	43,000	9,000	290,000	98,000	7,000	144,000	3,000	71,000	70,000	57,000
10-19	1,230,000	991,000	837,000	155,000	89,000	10,000	84,000	37,000	664,000	108,000	27,000	212,000	5,000	89,000	117,000	53,000
20-29	866,000	632,000	539,000	93,000	75,000	7,000	65,000	19,000	399,000	67,000	30,000	204,000	S	113,000	84,000	64,000
30-39	935,000	684,000	576,000	108,000	73,000	7,000	60,000	11,000	444,000	91,000	44,000	207,000	D	94,000	112,000	71,000
40-49	1,542,000	1,092,000	896,000	196,000	112,000	7,000	127,000	30,000	657,000	159,000	41,000	409,000	D	204,000	198,000	80,000
50-59	1,450,000	846,000	631,000	215,000	71,000	16,000	117,000	28,000	444,000	171,000	46,000	558,000	D	408,000	149,000	65,000
60-75	1,234,000	402,000	239,000	163,000	17,000	12,000	43,000	16,000	179,000	134,000	28,000	805,000	D	780,000	24,000	69,000
29 and younger	7,596,000	6,679,000	5,614,000	1,065,000	1,066,000	147,000	987,000	182,000	3,562,000	737,000	265,000	652,000	402,000	D	249,000	48,000
Female	4,492,000	3,892,000	3,142,000	750,000	321,000	59,000	695,000	152,000	2,126,000	538,000	168,000	432,000	230,000	D	202,000	43,000
Male	3,105,000	2,788,000	2,472,000	315,000	745,000	88,000	291,000	29,000	1,436,000	199,000	98,000	219,000	172,000	D	47,000	52,000
Hispanic or Latino	939,000	795,000	669,000	126,000	115,000	13,000	96,000	20,000	459,000	92,000	48,000	95,000	44,000	D	52,000	45,000
Not Hispanic or Latino																
American Indian or Alaska Native	17,000	S	S	S	S	D	1,000	D	S	D	D	*	D	D	D	S



TABLE 5-1

**College graduates, by age, sex, ethnicity, race, disability status, and age at onset of disability, broad occupation, labor force status, and median salary: 2017**

(Number and dollars)

Age, sex, ethnicity, race, disability status, and age at onset of disability	Total	Employed in all occupations			Employed in S&E occupations		Employed in S&E-related occupations		Employed in non-S&E occupations		Unemployed <sup>a</sup>	Not in labor force <sup>b</sup>				Full-time employed salary (\$)
		Employed	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time		Total	Student	Retired	Not seeking employment, all other reasons	
Since birth	135,000	94,000	80,000	13,000	16,000	D	11,000	D	53,000	S	3,000	S	D	D	S	50,000
1-9	171,000	157,000	139,000	18,000	13,000	D	17,000	1,000	108,000	16,000	2,000	S	D	D	S	54,000
10-19	254,000	231,000	191,000	39,000	23,000	2,000	25,000	S	143,000	23,000	7,000	16,000	2,000	D	14,000	54,000
20-29	202,000	180,000	162,000	18,000	30,000	S	20,000	S	112,000	6,000	S	16,000	S	D	13,000	61,000
30-39	220,000	189,000	165,000	24,000	18,000	S	17,000	D	130,000	S	10,000	21,000	D	S	18,000	64,000
40-49	12,421,000	11,148,000	9,669,000	1,479,000	1,434,000	95,000	1,591,000	320,000	6,644,000	1,065,000	272,000	1,001,000	31,000	55,000	915,000	80,000
Female	6,836,000	5,847,000	4,670,000	1,176,000	395,000	54,000	776,000	275,000	3,499,000	847,000	160,000	829,000	21,000	36,000	772,000	65,000
Male	5,586,000	5,302,000	4,999,000	303,000	1,039,000	41,000	815,000	44,000	3,145,000	218,000	112,000	172,000	S	19,000	143,000	97,000
Hispanic or Latino	1,204,000	1,052,000	926,000	126,000	101,000	6,000	164,000	31,000	661,000	89,000	39,000	112,000	S	11,000	100,000	72,000
Not Hispanic or Latino																
American Indian or Alaska Native	43,000	38,000	30,000	S	5,000	D	4,000	D	21,000	D	D	D	D	D	D	62,000
Asian	1,377,000	1,206,000	1,065,000	141,000	339,000	18,000	241,000	31,000	484,000	91,000	33,000	138,000	4,000	D	133,000	100,000
Black or African American	1,055,000	956,000	867,000	89,000	76,000	S	129,000	5,000	663,000	77,000	63,000	36,000	D	D	32,000	62,000
Native Hawaiian or Other Pacific Islander	52,000	42,000	41,000	1,000	13,000	D	6,000	D	23,000	S	D	D	D	D	D	86,000
White	8,484,000	7,667,000	6,580,000	1,087,000	883,000	60,000	1,026,000	242,000	4,671,000	785,000	119,000	697,000	20,000	42,000	635,000	80,000
More than one race	206,000	187,000	159,000	28,000	17,000	S	21,000	5,000	121,000	21,000	8,000	11,000	D	D	9,000	60,000
Without disability	10,921,000	9,946,000	8,645,000	1,301,000	1,312,000	84,000	1,469,000	297,000	5,864,000	920,000	214,000	761,000	27,000	33,000	701,000	81,000
With disability	1,500,000	1,202,000	1,024,000	178,000	122,000	11,000	122,000	23,000	780,000	145,000	59,000	239,000	S	22,000	213,000	72,000
Age at onset of disability																
Since birth	127,000	105,000	97,000	8,000	12,000	D	5,000	D	80,000	S	D	20,000	D	D	20,000	46,000
1-9	129,000	119,000	93,000	26,000	14,000	D	6,000	D	73,000	21,000	D	9,000	D	D	9,000	91,000
10-19	215,000	181,000	151,000	30,000	15,000	D	19,000	D	117,000	28,000	S	27,000	D	D	26,000	83,000
20-29	198,000	158,000	149,000	9,000	15,000	D	22,000	D	112,000	9,000	S	31,000	D	D	29,000	68,000
30-39	330,000	259,000	207,000	52,000	22,000	S	28,000	D	157,000	44,000	22,000	49,000	D	9,000	40,000	59,000
40-49	501,000	379,000	327,000	52,000	45,000	D	41,000	S	241,000	39,000	19,000	103,000	D	10,000	89,000	76,000
50-59	12,191,000	10,557,000	9,041,000	1,515,000	1,239,000	81,000	1,410,000	262,000	6,393,000	1,173,000	351,000	1,283,000	32,000	499,000	752,000	84,000
Female	6,485,000	5,379,000	4,269,000	1,110,000	328,000	46,000	719,000	209,000	3,222,000	855,000	195,000	911,000	19,000	315,000	577,000	69,000
Male	5,707,000	5,178,000	4,772,000	406,000	911,000	35,000	691,000	52,000	3,171,000	318,000	156,000	373,000	13,000	184,000	176,000	100,000
Hispanic or Latino	922,000	769,000	636,000	133,000	63,000	6,000	116,000	8,000	456,000	118,000	39,000	115,000	D	50,000	63,000	73,000

TABLE 5-1

**College graduates, by age, sex, ethnicity, race, disability status, and age at onset of disability, broad occupation, labor force status, and median salary: 2017**

(Number and dollars)

Age, sex, ethnicity, race, disability status, and age at onset of disability	Total	Employed in all occupations			Employed in S&E occupations		Employed in S&E-related occupations		Employed in non-S&E occupations		Unemployed <sup>a</sup>	Not in labor force <sup>b</sup>				Full-time employed salary (\$)	
		Employed	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time		Total	Student	Retired	Not seeking employment, all other reasons		
Not Hispanic or Latino																	
American Indian or Alaska Native	32,000	31,000	30,000	S	1,000	D	S	D	25,000	D	D	S	D	D	D	D	49,000
Asian	894,000	757,000	641,000	116,000	181,000	7,000	143,000	34,000	317,000	75,000	40,000	97,000	D	20,000	77,000	94,000	
Black or African American	1,087,000	952,000	833,000	119,000	109,000	2,000	129,000	13,000	594,000	104,000	S	81,000	D	43,000	32,000	67,000	
Native Hawaiian or Other Pacific Islander	20,000	19,000	19,000	D	2,000	D	S	D	15,000	D	D	D	D	D	D	D	77,000
White	9,099,000	7,924,000	6,784,000	1,140,000	869,000	64,000	1,000,000	204,000	4,915,000	871,000	210,000	965,000	22,000	375,000	568,000	86,000	
More than one race	136,000	105,000	99,000	6,000	13,000	S	17,000	D	70,000	4,000	8,000	22,000	D	12,000	S	70,000	
Without disability	9,997,000	8,885,000	7,630,000	1,255,000	1,059,000	66,000	1,210,000	233,000	5,361,000	956,000	286,000	826,000	26,000	353,000	447,000	85,000	
With disability	2,194,000	1,672,000	1,411,000	261,000	180,000	15,000	200,000	29,000	1,032,000	217,000	65,000	457,000	S	146,000	305,000	75,000	
Age at onset of disability																	
Since birth	128,000	90,000	72,000	18,000	15,000	D	20,000	D	36,000	18,000	D	33,000	D	S	24,000	70,000	
1-9	130,000	89,000	79,000	10,000	17,000	D	9,000	D	53,000	9,000	D	39,000	D	16,000	23,000	76,000	
10-19	257,000	212,000	182,000	31,000	22,000	2,000	17,000	10,000	142,000	19,000	S	37,000	D	S	35,000	60,000	
20-29	149,000	115,000	103,000	S	11,000	D	15,000	D	77,000	S	S	26,000	D	19,000	S	99,000	
30-39	246,000	180,000	162,000	17,000	25,000	S	13,000	D	124,000	15,000	S	58,000	D	12,000	45,000	77,000	
40-49	710,000	540,000	456,000	84,000	57,000	2,000	62,000	13,000	337,000	69,000	14,000	156,000	D	54,000	99,000	84,000	
50-59	575,000	445,000	357,000	88,000	32,000	9,000	64,000	S	262,000	76,000	21,000	108,000	D	35,000	73,000	65,000	
60-75	14,902,000	7,250,000	4,831,000	2,419,000	572,000	158,000	872,000	346,000	3,386,000	1,915,000	264,000	7,389,000	12,000	6,966,000	411,000	80,000	
Female	6,966,000	3,038,000	1,837,000	1,200,000	125,000	50,000	404,000	202,000	1,308,000	949,000	117,000	3,811,000	S	3,520,000	286,000	66,000	
Male	7,937,000	4,212,000	2,994,000	1,218,000	448,000	108,000	468,000	144,000	2,078,000	966,000	147,000	3,578,000	6,000	3,446,000	125,000	90,000	
Hispanic or Latino	647,000	377,000	247,000	130,000	16,000	5,000	69,000	20,000	162,000	106,000	9,000	260,000	D	238,000	22,000	69,000	
Not Hispanic or Latino																	
American Indian or Alaska Native	56,000	22,000	19,000	S	1,000	D	D	D	14,000	1,000	D	33,000	D	33,000	D	51,000	
Asian	815,000	415,000	316,000	99,000	54,000	5,000	80,000	19,000	182,000	75,000	29,000	371,000	D	334,000	37,000	83,000	
Black or African American	867,000	399,000	285,000	114,000	23,000	7,000	45,000	20,000	218,000	87,000	25,000	443,000	D	417,000	24,000	55,000	
Native Hawaiian or Other Pacific Islander	30,000	13,000	13,000	D	1,000	D	S	D	S	D	D	17,000	D	17,000	D	100,000	

TABLE 5-1

**College graduates, by age, sex, ethnicity, race, disability status, and age at onset of disability, broad occupation, labor force status, and median salary: 2017**

(Number and dollars)

Age, sex, ethnicity, race, disability status, and age at onset of disability	Total	Employed in all occupations			Employed in S&E occupations		Employed in S&E-related occupations		Employed in non-S&E occupations		Unemployed <sup>a</sup>	Not in labor force <sup>b</sup>				Full-time employed salary (\$)
		Employed	Full time	Part time	Full time	Part time	Full time	Part time	Full time	Part time		Total	Student	Retired	Not seeking employment, all other reasons	
White	12,351,000	5,955,000	3,898,000	2,058,000	472,000	140,000	666,000	284,000	2,760,000	1,634,000	191,000	6,204,000	10,000	5,867,000	328,000	81,000
More than one race	137,000	67,000	53,000	14,000	7,000	D	S	D	40,000	13,000	S	60,000	D	59,000	D	S
Without disability	11,690,000	5,966,000	3,997,000	1,969,000	473,000	128,000	740,000	284,000	2,784,000	1,558,000	196,000	5,527,000	11,000	5,302,000	214,000	81,000
With disability	3,213,000	1,283,000	834,000	449,000	100,000	30,000	132,000	62,000	602,000	357,000	68,000	1,861,000	D	1,664,000	196,000	69,000
Age at onset of disability																
Since birth	140,000	58,000	36,000	22,000	6,000	D	S	D	30,000	18,000	D	81,000	D	68,000	14,000	63,000
1–9	112,000	35,000	26,000	9,000	5,000	*	S	S	18,000	6,000	D	75,000	D	55,000	20,000	S
10–19	200,000	100,000	63,000	37,000	6,000	4,000	6,000	S	50,000	26,000	D	100,000	D	86,000	14,000	76,000
20–29	182,000	60,000	41,000	19,000	9,000	1,000	S	4,000	32,000	14,000	S	120,000	D	92,000	28,000	S
30–39	139,000	56,000	42,000	15,000	8,000	D	S	D	32,000	13,000	S	79,000	D	70,000	S	61,000
40–49	331,000	172,000	113,000	59,000	10,000	3,000	24,000	6,000	79,000	51,000	9,000	150,000	D	140,000	10,000	86,000
50–59	875,000	401,000	274,000	127,000	39,000	7,000	53,000	25,000	182,000	95,000	24,000	450,000	D	374,000	76,000	65,000
60–75	1,234,000	402,000	239,000	163,000	17,000	12,000	43,000	16,000	179,000	134,000	28,000	805,000	D	780,000	24,000	69,000

\* = 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. Median salaries are rounded to the nearest \$1,000. Full-time employed college graduates are individuals working at least 35 hours in a typical week. Hispanic or Latino may be any race; race categories exclude Hispanic origin. 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. Those respondents who answered "moderate," "severe," or "unable to do" for an activity were classified as having a disability.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

TABLE 5-2

**College graduates, by broad occupation, labor force status, sex, ethnicity, race, and disability status: 2017**

(Number)

Occupation and labor force status	Total	Female	Male	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability
					American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race		
All occupations	60,683,000	32,319,000	28,364,000	5,058,000	163,000	5,463,000	4,640,000	171,000	44,075,000	1,114,000	52,153,000	8,530,000
Full-time employment status	40,172,000	19,471,000	20,701,000	3,592,000	107,000	3,871,000	3,245,000	124,000	28,421,000	811,000	35,666,000	4,506,000
Part-time employment status	8,051,000	5,429,000	2,622,000	688,000	14,000	627,000	561,000	S	6,014,000	135,000	6,944,000	1,107,000
Preference for full-time status												
Did not want full-time employment	6,274,000	4,345,000	1,929,000	413,000	9,000	395,000	354,000	S	5,026,000	66,000	5,442,000	832,000
Wanted full-time employment	1,777,000	1,084,000	693,000	275,000	5,000	232,000	206,000	S	988,000	69,000	1,502,000	275,000
Reason for part-time status												
Reason worked part time: did not need or want to work full-time	4,099,000	2,881,000	1,217,000	223,000	S	195,000	164,000	2,000	3,470,000	42,000	3,643,000	455,000
Reason worked part time: family responsibilities	3,044,000	2,505,000	540,000	293,000	10,000	238,000	129,000	S	2,331,000	34,000	2,727,000	317,000
Reason worked part time: full-time job not available	2,046,000	1,372,000	674,000	249,000	3,000	179,000	159,000	S	1,395,000	51,000	1,783,000	263,000
Reason worked part time: held another job	1,179,000	814,000	365,000	115,000	S	73,000	47,000	D	906,000	34,000	1,021,000	158,000
Reason worked part time: previously or semi-retired	1,937,000	897,000	1,040,000	132,000	S	79,000	133,000	S	1,576,000	13,000	1,575,000	362,000
Reason worked part time: student	849,000	536,000	313,000	90,000	*	134,000	153,000	D	419,000	52,000	765,000	84,000
Reason worked part time: other	721,000	467,000	254,000	50,000	S	72,000	88,000	D	501,000	7,000	517,000	204,000
Not working, not looking for work	11,239,000	6,705,000	4,535,000	623,000	37,000	815,000	644,000	26,000	8,962,000	132,000	8,520,000	2,720,000
Not working, looking for work	1,221,000	714,000	506,000	155,000	S	149,000	190,000	S	678,000	36,000	1,024,000	197,000
Reason for not working												
Reason for not working: illness or disability	1,311,000	773,000	538,000	131,000	5,000	59,000	154,000	D	931,000	31,000	320,000	992,000
Reason for not working: did not need or want to work	2,866,000	1,939,000	927,000	147,000	S	220,000	138,000	15,000	2,290,000	42,000	2,331,000	535,000
Reason for not working: family responsibilities	2,286,000	1,979,000	307,000	200,000	6,000	275,000	125,000	S	1,634,000	38,000	1,908,000	377,000
Reason for not working: layoff	613,000	290,000	323,000	65,000	D	62,000	64,000	D	396,000	24,000	526,000	87,000
Reason for not working: retired	7,775,000	4,006,000	3,769,000	311,000	36,000	367,000	501,000	17,000	6,466,000	78,000	5,859,000	1,917,000
Reason for not working: student	605,000	348,000	257,000	84,000	D	111,000	62,000	S	317,000	29,000	559,000	46,000
Reason for not working: suitable job not available	947,000	548,000	399,000	106,000	S	146,000	75,000	D	578,000	32,000	699,000	249,000
Reason for not working: other	494,000	285,000	208,000	53,000	D	81,000	43,000	D	304,000	7,000	381,000	113,000
S&E occupations	8,171,000	2,481,000	5,689,000	561,000	16,000	1,543,000	450,000	27,000	5,437,000	137,000	7,242,000	929,000



TABLE 5-2

**College graduates, by broad occupation, labor force status, sex, ethnicity, race, and disability status: 2017**

(Number)

Occupation and labor force status	Total	Female	Male	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability
					American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race		
Full-time employment status	6,169,000	1,695,000	4,474,000	459,000	12,000	1,242,000	357,000	23,000	3,976,000	100,000	5,592,000	577,000
Part-time employment status	600,000	271,000	329,000	46,000	S	96,000	25,000	S	421,000	9,000	527,000	72,000
Preference for full-time status												
Did not want full-time employment	446,000	215,000	231,000	31,000	*	56,000	13,000	D	338,000	7,000	396,000	51,000
Wanted full-time employment	153,000	56,000	98,000	15,000	D	40,000	12,000	D	82,000	S	132,000	22,000
Reason for part-time status												
Reason worked part time: did not need or want to work full-time	226,000	111,000	114,000	11,000	D	16,000	4,000	D	189,000	5,000	198,000	28,000
Reason worked part time: family responsibilities	160,000	108,000	52,000	16,000	D	22,000	S	D	116,000	1,000	148,000	12,000
Reason worked part time: full-time job not available	171,000	60,000	111,000	22,000	D	29,000	10,000	D	107,000	1,000	149,000	22,000
Reason worked part time: held another job	73,000	38,000	35,000	10,000	D	5,000	3,000	D	54,000	S	64,000	8,000
Reason worked part time: previously or semi-retired	127,000	35,000	93,000	8,000	D	5,000	5,000	D	109,000	D	105,000	23,000
Reason worked part time: student	152,000	61,000	91,000	12,000	D	46,000	6,000	D	83,000	4,000	143,000	10,000
Reason worked part time: other	63,000	30,000	33,000	4,000	D	21,000	S	D	34,000	D	46,000	17,000
Not working, not looking for work	1,212,000	450,000	762,000	46,000	1,000	153,000	55,000	D	930,000	23,000	951,000	261,000
Not working, looking for work	190,000	66,000	125,000	10,000	D	51,000	13,000	D	111,000	5,000	171,000	19,000
Reason for not working												
Reason for not working: illness or disability	126,000	47,000	79,000	11,000	D	8,000	13,000	D	90,000	3,000	42,000	84,000
Reason for not working: did not need or want to work	348,000	157,000	191,000	10,000	D	50,000	S	D	266,000	3,000	294,000	54,000
Reason for not working: family responsibilities	180,000	132,000	49,000	8,000	D	41,000	5,000	D	121,000	6,000	162,000	19,000
Reason for not working: layoff	137,000	33,000	104,000	5,000	D	30,000	9,000	D	90,000	S	120,000	17,000
Reason for not working: retired	883,000	251,000	632,000	31,000	2,000	64,000	26,000	D	744,000	15,000	670,000	213,000
Reason for not working: student	87,000	49,000	37,000	5,000	D	29,000	S	D	34,000	S	82,000	5,000
Reason for not working: suitable job not available	139,000	61,000	78,000	10,000	D	33,000	6,000	D	86,000	5,000	111,000	28,000
Reason for not working: other	64,000	21,000	43,000	1,000	D	19,000	S	D	34,000	D	55,000	9,000
S&E-related occupations	10,197,000	5,933,000	4,264,000	816,000	32,000	1,228,000	703,000	21,000	7,221,000	174,000	8,993,000	1,204,000
Full-time employment status	6,803,000	3,632,000	3,172,000	595,000	21,000	890,000	539,000	15,000	4,619,000	124,000	6,217,000	586,000

TABLE 5-2

**College graduates, by broad occupation, labor force status, sex, ethnicity, race, and disability status: 2017**

(Number)

Occupation and labor force status	Total	Female	Male	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability	
					American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race			
Part-time employment status	1,468,000	1,133,000	335,000	107,000		S	151,000	72,000	D	1,107,000	23,000	1,315,000	153,000
Preference for full-time status													
Did not want full-time employment	1,185,000	931,000	254,000	77,000		D	103,000	43,000	D	936,000	21,000	1,066,000	119,000
Wanted full-time employment	283,000	202,000	81,000	30,000		D	49,000	29,000	D	171,000	2,000	249,000	34,000
Reason for part-time status													
Reason worked part time: did not need or want to work full-time	837,000	656,000	182,000	41,000		D	61,000	27,000	D	691,000	15,000	773,000	64,000
Reason worked part time: family responsibilities	613,000	549,000	64,000	43,000		D	64,000	14,000	D	473,000	11,000	573,000	41,000
Reason worked part time: full-time job not available	295,000	232,000	63,000	27,000		D	28,000	19,000	D	218,000	3,000	272,000	23,000
Reason worked part time: held another job	223,000	187,000	37,000	33,000		D	19,000	13,000	D	155,000	S	197,000	26,000
Reason worked part time: previously or semi-retired	246,000	144,000	102,000	S		D	16,000	17,000	D	199,000	D	203,000	44,000
Reason worked part time: student	114,000	89,000	25,000	21,000		D	27,000	11,000	D	50,000	S	101,000	13,000
Reason worked part time: other	155,000	111,000	45,000	10,000		D	26,000	14,000	D	102,000	S	129,000	26,000
Not working, not looking for work	1,743,000	1,065,000	678,000	81,000		S	165,000	68,000	S	1,403,000	20,000	1,326,000	417,000
Not working, looking for work	182,000	103,000	79,000	34,000		D	22,000	25,000	D	92,000	7,000	135,000	47,000
Reason for not working													
Reason for not working: illness or disability	207,000	144,000	63,000	20,000		D	9,000	27,000	D	146,000	4,000	64,000	142,000
Reason for not working: did not need or want to work	454,000	325,000	129,000	32,000		D	29,000	21,000	D	366,000	5,000	359,000	95,000
Reason for not working: family responsibilities	272,000	237,000	35,000	29,000		D	25,000	8,000	D	203,000	S	229,000	43,000
Reason for not working: layoff	65,000	22,000	43,000	6,000		D	6,000	4,000	D	43,000	S	55,000	10,000
Reason for not working: retired	1,264,000	676,000	588,000	49,000		S	79,000	66,000	D	1,055,000	12,000	917,000	347,000
Reason for not working: student	153,000	93,000	61,000	12,000		D	30,000	5,000	D	100,000	6,000	141,000	12,000
Reason for not working: suitable job not available	135,000	83,000	52,000	16,000		D	21,000	9,000	D	84,000	S	94,000	41,000
Reason for not working: other	112,000	71,000	42,000	5,000		D	30,000	7,000	D	69,000	D	98,000	14,000
Non-S&E occupations	42,316,000	23,905,000	18,410,000	3,681,000		116,000	2,692,000	3,487,000	122,000	31,417,000	802,000	35,918,000	6,397,000
Full-time employment status	27,200,000	14,144,000	13,056,000	2,538,000		75,000	1,739,000	2,349,000	87,000	19,826,000	586,000	23,856,000	3,344,000
Part-time employment status	5,983,000	4,026,000	1,957,000	535,000		5,000	380,000	463,000	S	4,486,000	103,000	5,102,000	882,000

TABLE 5-2

**College graduates, by broad occupation, labor force status, sex, ethnicity, race, and disability status: 2017**

(Number)

Occupation and labor force status	Total	Female	Male	Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability		
					American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race				
Preference for full-time status														
Did not want full-time employment	4,643,000	3,199,000	1,443,000	305,000		2,000	236,000	299,000	S	3,752,000	38,000	3,980,000	663,000	
Wanted full-time employment	1,341,000	827,000	514,000	229,000		3,000	144,000	165,000	D	735,000	65,000	1,122,000	219,000	
Reason for part-time status														
Reason worked part time: did not need or want to work full-time	3,036,000	2,114,000	921,000	171,000		S	118,000	133,000		1,000	2,589,000	22,000	2,672,000	364,000
Reason worked part time: family responsibilities	2,271,000	1,848,000	423,000	233,000		S	152,000	112,000	S	1,742,000	22,000	2,007,000	264,000	
Reason worked part time: full-time job not available	1,580,000	1,081,000	499,000	201,000		S	121,000	129,000	S	1,070,000	47,000	1,362,000	218,000	
Reason worked part time: held another job	883,000	590,000	293,000	73,000		D	49,000	32,000		D	697,000	32,000	760,000	123,000
Reason worked part time: previously or semi-retired	1,564,000	719,000	845,000	114,000		S	58,000	111,000		D	1,268,000	12,000	1,268,000	296,000
Reason worked part time: student	584,000	387,000	197,000	57,000		D	61,000	135,000		D	285,000	45,000	522,000	61,000
Reason worked part time: other	503,000	326,000	177,000	37,000		D	26,000	72,000		D	364,000	3,000	342,000	160,000
Not working, not looking for work	8,284,000	5,190,000	3,095,000	497,000		32,000	497,000	521,000		20,000	6,628,000	89,000	6,242,000	2,042,000
Not working, looking for work	848,000	546,000	303,000	111,000		S	76,000	153,000		D	475,000	24,000	718,000	130,000
Reason for not working														
Reason for not working: illness or disability	979,000	582,000	396,000	100,000		S	42,000	114,000		D	696,000	25,000	213,000	766,000
Reason for not working: did not need or want to work	2,064,000	1,456,000	607,000	105,000		S	141,000	102,000		S	1,658,000	34,000	1,677,000	387,000
Reason for not working: family responsibilities	1,833,000	1,611,000	223,000	163,000		S	209,000	113,000		D	1,309,000	30,000	1,517,000	316,000
Reason for not working: layoff	411,000	235,000	176,000	54,000		D	26,000	51,000		D	263,000	S	351,000	60,000
Reason for not working: retired	5,628,000	3,079,000	2,549,000	231,000		30,000	224,000	409,000		16,000	4,667,000	51,000	4,271,000	1,356,000
Reason for not working: student	365,000	207,000	158,000	67,000		D	53,000	41,000		D	183,000	S	336,000	29,000
Reason for not working: suitable job not available	673,000	405,000	268,000	80,000		S	92,000	59,000		D	409,000	24,000	493,000	179,000
Reason for not working: other	317,000	194,000	123,000	46,000		D	32,000	30,000		D	201,000	3,000	228,000	90,000

\* = suppressed when population estimate &lt; 500. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&amp;E = science and engineering.

**Note(s):**

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding. This table does not include individuals who have never worked for pay or profit. If respondent was not employed during survey reference period, occupation when last employed was reported. Designation of full-time and part-time employment status is based on principal job only, not on all jobs held in labor force. For example, an individual could work part time in his or her principal job but full time in the labor force. Full time is based on working 35 or more hours per week on one's principal job. All individuals who report working part time on their principal job, regardless of their preference for working part time, are asked their reasons for working part time. All individuals who report not working, regardless of if they are looking for work, are asked their reasons for not working. Hispanic or Latino may be any race; race categories exclude Hispanic origin. 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. Those respondents who answered "moderate," "severe," or "unable to do" for an activity were classified as having a disability.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

**TABLE 5-3**  
**College graduates, by broad field of highest degree, father's education, mother's education, level of highest degree, and median amount borrowed to finance undergraduate degree: 2017**

(Number)

Field of highest degree, father's education, and mother's education	Bachelor's						Master's						Doctorate						Professional					
	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over
All fields	38,866,000	17,916,000	5,953,000	4,760,000	3,530,000	6,705,000	16,756,000	7,810,000	2,598,000	1,823,000	1,235,000	2,311,000	2,172,000	1,191,000	329,000	171,000	91,000	157,000	3,426,000	1,538,000	414,000	346,000	260,000	447,000
Father's education																								
Less than high school completed	4,856,000	2,363,000	977,000	529,000	312,000	675,000	2,203,000	945,000	473,000	198,000	147,000	249,000	271,000	127,000	56,000	24,000	6,000	13,000	266,000	123,000	40,000	18,000	15,000	30,000
High school diploma or equivalent	10,531,000	4,447,000	1,589,000	1,449,000	1,083,000	1,964,000	3,831,000	1,618,000	651,000	425,000	345,000	574,000	441,000	210,000	81,000	40,000	15,000	44,000	566,000	183,000	64,000	60,000	77,000	94,000
Some college, vocational, or trade school (including 2-year degrees)	7,675,000	2,933,000	1,320,000	1,026,000	879,000	1,516,000	3,084,000	1,248,000	483,000	395,000	275,000	544,000	317,000	155,000	59,000	34,000	17,000	20,000	515,000	199,000	102,000	70,000	45,000	52,000
Bachelor's degree (e.g., BS, BA, AB)	8,467,000	4,203,000	1,117,000	977,000	719,000	1,450,000	3,630,000	1,862,000	488,000	444,000	206,000	452,000	494,000	310,000	52,000	38,000	20,000	35,000	792,000	322,000	94,000	95,000	64,000	113,000
Master's degree (e.g., MS, MA, MBA)	3,918,000	2,015,000	574,000	403,000	318,000	608,000	2,123,000	1,046,000	295,000	198,000	150,000	297,000	279,000	152,000	37,000	19,000	15,000	26,000	441,000	227,000	59,000	43,000	16,000	58,000
Professional degree (e.g., JD, LLB, MD, DDS)	1,452,000	930,000	146,000	141,000	63,000	172,000	793,000	520,000	69,000	52,000	57,000	54,000	176,000	120,000	20,000	6,000	9,000	7,000	555,000	336,000	24,000	45,000	26,000	69,000
Doctorate (e.g., PhD, DSc, EdD)	1,192,000	668,000	146,000	115,000	79,000	184,000	786,000	470,000	102,000	67,000	33,000	61,000	168,000	101,000	22,000	8,000	9,000	9,000	225,000	113,000	28,000	14,000	11,000	27,000
Not applicable	776,000	357,000	85,000	121,000	77,000	137,000	307,000	101,000	37,000	42,000	21,000	82,000	26,000	16,000	2,000	S	D	S	65,000	35,000	S	D	D	5,000
Mother's education																								
Less than high school completed	4,683,000	2,396,000	886,000	416,000	378,000	607,000	2,021,000	926,000	346,000	195,000	126,000	203,000	318,000	168,000	51,000	17,000	4,000	15,000	211,000	80,000	26,000	7,000	17,000	19,000

**TABLE 5-3**  
**College graduates, by broad field of highest degree, father's education, mother's education, level of highest degree, and median amount borrowed to finance undergraduate degree: 2017**

(Number)

Field of highest degree, father's education, and mother's education	Bachelor's						Master's						Doctorate						Professional					
	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over
High school diploma or equivalent	12,881,000	5,789,000	2,188,000	1,744,000	1,144,000	2,016,000	5,038,000	2,283,000	916,000	575,000	354,000	661,000	510,000	270,000	87,000	49,000	18,000	30,000	803,000	295,000	128,000	101,000	63,000	117,000
Some college, vocational, or trade school (including 2-year degrees)	8,934,000	3,647,000	1,289,000	1,295,000	993,000	1,711,000	3,775,000	1,592,000	630,000	514,000	318,000	562,000	464,000	239,000	74,000	39,000	21,000	48,000	736,000	341,000	110,000	71,000	56,000	86,000
Bachelor's degree (e.g., BS, BA, AB)	7,924,000	3,816,000	1,069,000	833,000	675,000	1,531,000	3,298,000	1,680,000	429,000	321,000	261,000	466,000	487,000	276,000	69,000	37,000	33,000	30,000	875,000	401,000	70,000	113,000	81,000	121,000
Master's degree (e.g., MS, MA, MBA)	3,216,000	1,652,000	357,000	365,000	241,000	601,000	1,973,000	969,000	236,000	155,000	146,000	319,000	268,000	155,000	40,000	21,000	11,000	27,000	549,000	310,000	58,000	43,000	26,000	72,000
Professional degree (e.g., JD, LLB, MD, DDS)	439,000	224,000	72,000	17,000	34,000	92,000	208,000	136,000	12,000	19,000	11,000	18,000	44,000	29,000	4,000	2,000	1,000	3,000	129,000	54,000	10,000	9,000	1,000	19,000
Doctorate (e.g., PhD, DSc, EdD)	341,000	173,000	39,000	49,000	20,000	59,000	254,000	139,000	20,000	24,000	12,000	44,000	54,000	37,000	4,000	4,000	3,000	1,000	87,000	42,000	11,000	S	S	S
Not applicable	448,000	220,000	53,000	42,000	44,000	88,000	190,000	83,000	10,000	18,000	8,000	39,000	26,000	17,000	D	S	D	D	36,000	16,000	D	D	D	D
S&E fields	13,077,000	6,018,000	2,070,000	1,609,000	1,213,000	2,168,000	3,905,000	1,948,000	598,000	371,000	273,000	403,000	1,311,000	754,000	199,000	93,000	50,000	79,000	46,000	19,000	6,000	7,000	S	8,000
Father's education																								
Less than high school completed	1,598,000	794,000	335,000	169,000	134,000	167,000	459,000	212,000	101,000	44,000	25,000	28,000	160,000	84,000	29,000	10,000	5,000	1,000	6,000	3,000	S	D	D	D
High school diploma or equivalent	3,179,000	1,318,000	528,000	401,000	345,000	587,000	788,000	364,000	129,000	79,000	64,000	100,000	241,000	114,000	47,000	26,000	10,000	16,000	10,000	S	S	D	S	D
Some college, vocational, or trade	2,477,000	977,000	394,000	347,000	236,000	523,000	644,000	284,000	104,000	56,000	65,000	84,000	172,000	97,000	28,000	13,000	6,000	17,000	9,000	2,000	1,000	S	D	S

TABLE 5-3  
College graduates, by broad field of highest degree, father's education, mother's education, level of highest degree, and median amount borrowed to finance undergraduate degree: 2017

(Number)

Field of highest degree, father's education, and mother's education	Bachelor's						Master's						Doctorate						Professional						
	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	
school (including 2-year degrees)																									
Bachelor's degree (e.g., BS, BA, AB)	3,036,000	1,462,000	436,000	363,000	258,000	518,000	979,000	536,000	135,000	102,000	47,000	91,000	306,000	197,000	39,000	20,000	11,000	12,000	10,000	4,000	D	S	D	D	
Master's degree (e.g., MS, MA, MBA)	1,422,000	701,000	225,000	147,000	138,000	211,000	533,000	260,000	81,000	54,000	37,000	56,000	194,000	104,000	27,000	13,000	11,000	18,000	4,000	2,000	D	D	D	D	
Professional degree (e.g., JD, LLB, MD, DDS)	585,000	364,000	53,000	77,000	37,000	56,000	222,000	142,000	21,000	10,000	16,000	17,000	107,000	75,000	11,000	3,000	3,000	5,000	5,000	2,000	D	D	D	D	
Doctorate (e.g., PhD, DSc, EdD)	519,000	283,000	70,000	48,000	44,000	75,000	222,000	129,000	22,000	23,000	10,000	14,000	117,000	75,000	16,000	6,000	5,000	8,000	3,000	D	D	D	D	D	
Not applicable	261,000	120,000	30,000	58,000	22,000	31,000	59,000	21,000	7,000	2,000	10,000	13,000	13,000	7,000	2,000	D	D	D	D	D	D	D	D	D	
Mother's education																									
Less than high school completed	1,551,000	742,000	340,000	158,000	154,000	157,000	542,000	283,000	77,000	41,000	34,000	43,000	197,000	113,000	29,000	11,000	4,000	3,000	4,000	S	D	D	D	D	
High school diploma or equivalent	4,022,000	1,780,000	741,000	530,000	325,000	646,000	1,067,000	507,000	198,000	118,000	65,000	99,000	294,000	154,000	51,000	26,000	11,000	17,000	13,000	6,000	2,000	2,000	D	D	
Some college, vocational, or trade school (including 2-year degrees)	2,916,000	1,172,000	399,000	413,000	330,000	602,000	791,000	361,000	114,000	90,000	75,000	105,000	262,000	150,000	40,000	20,000	11,000	22,000	11,000	4,000	1,000	S	D	S	

**TABLE 5-3**  
**College graduates, by broad field of highest degree, father's education, mother's education, level of highest degree, and median amount borrowed to finance undergraduate degree: 2017**

(Number)

Field of highest degree, father's education, and mother's education	Bachelor's						Master's						Doctorate						Professional					
	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over
Bachelor's degree (e.g., BS, BA, AB)	2,817,000	1,384,000	392,000	317,000	249,000	475,000	832,000	447,000	128,000	68,000	52,000	85,000	302,000	182,000	45,000	17,000	16,000	16,000	10,000	3,000	D	D	D	S
Master's degree (e.g., MS, MA, MBA)	1,252,000	627,000	150,000	144,000	117,000	214,000	474,000	238,000	69,000	39,000	33,000	53,000	177,000	102,000	25,000	13,000	7,000	17,000	6,000	3,000	D	D	D	S
Professional degree (e.g., JD, LLB, MD, DDS)	171,000	108,000	10,000	14,000	15,000	25,000	73,000	49,000	5,000	6,000	3,000	5,000	29,000	18,000	S	S	S	2,000	D	D	D	D	D	D
Doctorate (e.g., PhD, DSc, EdD)	188,000	114,000	13,000	18,000	10,000	33,000	77,000	38,000	6,000	9,000	5,000	8,000	35,000	25,000	3,000	3,000	1,000	1,000	D	D	D	D	D	D
Not applicable	161,000	92,000	25,000	15,000	12,000	16,000	49,000	25,000	2,000	1,000	5,000	4,000	14,000	8,000	D	D	D	D	D	D	D	D	D	D
S&E-related fields	4,295,000	1,769,000	648,000	560,000	410,000	908,000	2,185,000	910,000	285,000	257,000	186,000	385,000	253,000	123,000	27,000	21,000	11,000	30,000	1,650,000	671,000	152,000	128,000	107,000	225,000
Father's education																								
Less than high school completed	584,000	245,000	91,000	89,000	43,000	116,000	259,000	114,000	50,000	28,000	7,000	40,000	22,000	10,000	5,000	S	D	S	143,000	53,000	17,000	13,000	S	21,000
High school diploma or equivalent	1,069,000	408,000	162,000	164,000	114,000	221,000	512,000	152,000	61,000	75,000	72,000	105,000	68,000	34,000	8,000	7,000	S	10,000	258,000	59,000	28,000	21,000	31,000	43,000
Some college, vocational, or trade school (including 2-year degrees)	904,000	327,000	155,000	130,000	80,000	212,000	433,000	153,000	68,000	60,000	28,000	105,000	38,000	14,000	6,000	3,000	2,000	2,000	222,000	90,000	36,000	25,000	10,000	25,000
Bachelor's degree (e.g., BS, BA, AB)	951,000	419,000	113,000	103,000	110,000	207,000	430,000	209,000	48,000	44,000	36,000	70,000	64,000	31,000	3,000	6,000	3,000	12,000	363,000	134,000	29,000	27,000	22,000	51,000



**TABLE 5-3**  
**College graduates, by broad field of highest degree, father's education, mother's education, level of highest degree, and median amount borrowed to finance undergraduate degree: 2017**

(Number)

Field of highest degree, father's education, and mother's education	Bachelor's						Master's						Doctorate					Professional						
	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over
Master's degree (e.g., MS, MA, MBA)	418,000	191,000	70,000	41,000	41,000	75,000	295,000	126,000	36,000	23,000	34,000	36,000	27,000	S	2,000	3,000	D	S	220,000	100,000	22,000	20,000	12,000	35,000
Professional degree (e.g., JD, LLB, MD, DDS)	159,000	90,000	27,000	S	17,000	23,000	133,000	83,000	11,000	14,000	S	16,000	17,000	10,000	2,000	D	D	D	287,000	158,000	8,000	19,000	S	40,000
Doctorate (e.g., PhD, DSc, EdD)	115,000	45,000	22,000	22,000	S	23,000	85,000	59,000	9,000	6,000	3,000	6,000	13,000	8,000	D	1,000	D	D	121,000	63,000	12,000	S	D	S
Not applicable	94,000	44,000	S	S	D	32,000	38,000	12,000	2,000	6,000	4,000	5,000	5,000	D	D	D	D	D	37,000	14,000	D	D	D	S
Mother's education																								
Less than high school completed	521,000	274,000	83,000	75,000	32,000	58,000	222,000	92,000	40,000	31,000	12,000	25,000	29,000	19,000	4,000	S	D	S	128,000	35,000	17,000	S	11,000	12,000
High school diploma or equivalent	1,401,000	535,000	238,000	209,000	138,000	282,000	639,000	255,000	94,000	80,000	61,000	105,000	78,000	40,000	8,000	8,000	2,000	5,000	363,000	130,000	43,000	42,000	21,000	49,000
Some college, vocational, or trade school (including 2-year degrees)	1,068,000	389,000	171,000	159,000	124,000	225,000	496,000	186,000	65,000	73,000	46,000	102,000	63,000	22,000	5,000	6,000	S	14,000	303,000	106,000	41,000	21,000	15,000	53,000
Bachelor's degree (e.g., BS, BA, AB)	911,000	392,000	106,000	84,000	82,000	246,000	455,000	203,000	52,000	42,000	41,000	82,000	44,000	20,000	5,000	4,000	5,000	4,000	437,000	193,000	28,000	40,000	42,000	57,000
Master's degree (e.g., MS, MA, MBA)	269,000	125,000	31,000	25,000	26,000	62,000	282,000	126,000	30,000	21,000	25,000	59,000	22,000	11,000	4,000	2,000	D	S	261,000	140,000	17,000	16,000	6,000	47,000

**TABLE 5-3**  
**College graduates, by broad field of highest degree, father's education, mother's education, level of highest degree, and median amount borrowed to finance undergraduate degree: 2017**

(Number)

Field of highest degree, father's education, and mother's education	Bachelor's						Master's						Doctorate						Professional					
	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over
Professional degree (e.g., JD, LLB, MD, DDS)	48,000	11,000	13,000	S	D	18,000	21,000	10,000	D	5,000	D	S	3,000	S	D	D	D	D	85,000	35,000	D	S	D	S
Doctorate (e.g., PhD, DSc, EdD)	27,000	14,000	D	4,000	D	6,000	30,000	21,000	S	D	D	8,000	10,000	7,000	D	D	D	D	49,000	27,000	D	D	D	D
Not applicable	49,000	29,000	S	S	D	S	40,000	16,000	D	6,000	D	D	4,000	D	D	D	D	D	23,000	S	D	D	D	D
Non-S&E fields	21,493,000	10,129,000	3,236,000	2,592,000	1,907,000	3,629,000	10,666,000	4,952,000	1,715,000	1,195,000	776,000	1,523,000	608,000	314,000	104,000	58,000	30,000	47,000	1,730,000	848,000	255,000	210,000	148,000	214,000
Father's education																								
Less than high school completed	2,674,000	1,324,000	551,000	270,000	135,000	393,000	1,485,000	619,000	322,000	126,000	115,000	180,000	89,000	33,000	23,000	12,000	*	9,000	118,000	67,000	22,000	S	S	8,000
High school diploma or equivalent	6,283,000	2,721,000	898,000	884,000	624,000	1,156,000	2,531,000	1,101,000	461,000	272,000	210,000	368,000	131,000	62,000	26,000	7,000	3,000	19,000	299,000	120,000	35,000	38,000	42,000	50,000
Some college, vocational, or trade school (including 2-year degrees)	4,294,000	1,629,000	770,000	549,000	563,000	782,000	2,007,000	811,000	312,000	279,000	182,000	355,000	108,000	44,000	25,000	18,000	8,000	S	283,000	107,000	65,000	44,000	35,000	22,000
Bachelor's degree (e.g., BS, BA, AB)	4,479,000	2,323,000	568,000	512,000	352,000	725,000	2,221,000	1,117,000	305,000	298,000	124,000	291,000	124,000	82,000	10,000	12,000	6,000	11,000	420,000	183,000	62,000	65,000	41,000	62,000
Master's degree (e.g., MS, MA, MBA)	2,078,000	1,123,000	278,000	215,000	139,000	323,000	1,295,000	660,000	179,000	121,000	78,000	205,000	58,000	35,000	8,000	4,000	4,000	5,000	217,000	125,000	37,000	22,000	4,000	22,000
Professional degree (e.g., JD, LLB, MD, DDS)	707,000	477,000	67,000	61,000	S	93,000	438,000	295,000	37,000	28,000	39,000	21,000	52,000	35,000	7,000	3,000	4,000	S	263,000	176,000	16,000	24,000	12,000	28,000

**TABLE 5-3**  
**College graduates, by broad field of highest degree, father's education, mother's education, level of highest degree, and median amount borrowed to finance undergraduate degree: 2017**

(Number)

Field of highest degree, father's education, and mother's education	Bachelor's						Master's						Doctorate					Professional						
	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over	Total	\$0	\$1–\$10,000	\$10,001–\$20,000	\$20,001–\$30,000	\$30,001 and over
Doctorate (e.g., PhD, DSc, EdD)	558,000	339,000	54,000	46,000	32,000	86,000	478,000	282,000	71,000	38,000	21,000	40,000	38,000	18,000	5,000	D	4,000	D	102,000	49,000	15,000	11,000	5,000	19,000
Not applicable	421,000	193,000	48,000	55,000	52,000	73,000	210,000	67,000	28,000	33,000	7,000	64,000	8,000	7,000	D	D	D	D	28,000	20,000	D	D	D	S
Mother's education																								
Less than high school completed	2,611,000	1,380,000	464,000	184,000	191,000	392,000	1,257,000	551,000	230,000	124,000	80,000	136,000	93,000	36,000	18,000	6,000	D	10,000	79,000	43,000	8,000	4,000	6,000	6,000
High school diploma or equivalent	7,458,000	3,474,000	1,209,000	1,006,000	681,000	1,088,000	3,332,000	1,521,000	623,000	377,000	228,000	456,000	138,000	75,000	27,000	15,000	5,000	7,000	427,000	159,000	83,000	57,000	39,000	68,000
Some college, vocational, or trade school (including 2-year degrees)	4,950,000	2,086,000	718,000	723,000	540,000	883,000	2,488,000	1,045,000	451,000	351,000	198,000	355,000	138,000	67,000	29,000	13,000	7,000	13,000	421,000	230,000	68,000	46,000	41,000	31,000
Bachelor's degree (e.g., BS, BA, AB)	4,196,000	2,040,000	570,000	432,000	344,000	810,000	2,010,000	1,030,000	249,000	212,000	168,000	299,000	141,000	73,000	18,000	16,000	13,000	10,000	428,000	205,000	41,000	72,000	39,000	60,000
Master's degree (e.g., MS, MA, MBA)	1,696,000	901,000	176,000	196,000	98,000	325,000	1,217,000	605,000	137,000	96,000	88,000	206,000	69,000	41,000	11,000	6,000	3,000	6,000	283,000	167,000	41,000	26,000	20,000	24,000
Professional degree (e.g., JD, LLB, MD, DDS)	219,000	105,000	50,000	D	15,000	48,000	114,000	77,000	S	S	6,000	11,000	12,000	10,000	D	D	D	D	43,000	18,000	S	4,000	D	S
Doctorate (e.g., PhD, DSc, EdD)	125,000	45,000	26,000	27,000	D	20,000	146,000	80,000	13,000	15,000	7,000	28,000	9,000	5,000	D	D	D	D	37,000	14,000	S	D	D	S
Not applicable	238,000	100,000	23,000	23,000	30,000	62,000	101,000	42,000	6,000	12,000	S	33,000	7,000	7,000	D	D	D	D	12,000	D	D	D	D	D

\* = 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.

**Note(s):**

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding. Totals for master's, doctorate, and professional highest degree earners include individuals who did not earn an undergraduate degree. These are primarily individuals who earned a first degree at an international institution for which the award is not counted as an undergraduate award by U.S. standards.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

TABLE 5-4

**Employed college graduates, by nativity, level of highest degree, major occupation, and employment sector: 2017**

(Number)

Nativity, level of highest degree, and occupation	Total	Business or industry	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Government <sup>b</sup>
All college graduates, all degrees, all occupations	48,223,000	33,510,000	3,056,000	6,849,000	4,808,000
S&E occupations	6,769,000	4,888,000	880,000	216,000	785,000
Biological, agricultural, and other life scientists	610,000	266,000	222,000	19,000	104,000
Computer and mathematical scientists	3,419,000	2,827,000	211,000	88,000	292,000
Physical and related scientists	366,000	154,000	109,000	26,000	76,000
Social and related scientists	646,000	253,000	221,000	76,000	95,000
Engineers	1,728,000	1,387,000	116,000	6,000	218,000
S&E-related occupations	8,271,000	5,869,000	595,000	1,165,000	643,000
Non-S&E occupations	33,183,000	22,753,000	1,582,000	5,468,000	3,379,000
Bachelor's	30,131,000	22,630,000	1,191,000	3,355,000	2,954,000
S&E occupations	3,846,000	3,075,000	266,000	74,000	431,000
Biological, agricultural, and other life scientists	230,000	129,000	63,000	3,000	34,000
Computer and mathematical scientists	2,219,000	1,898,000	87,000	40,000	194,000
Physical and related scientists	164,000	73,000	35,000	D	37,000
Social and related scientists	172,000	85,000	42,000	9,000	36,000
Engineers	1,061,000	890,000	39,000	2,000	130,000
S&E-related occupations	4,338,000	3,244,000	218,000	496,000	381,000
Non-S&E occupations	21,946,000	16,311,000	708,000	2,786,000	2,141,000
Master's	13,260,000	7,763,000	919,000	3,268,000	1,311,000
S&E occupations	2,069,000	1,464,000	234,000	110,000	261,000
Biological, agricultural, and other life scientists	149,000	61,000	44,000	6,000	37,000
Computer and mathematical scientists	1,039,000	836,000	68,000	45,000	89,000
Physical and related scientists	98,000	48,000	23,000	4,000	23,000
Social and related scientists	235,000	86,000	66,000	51,000	33,000
Engineers	548,000	433,000	33,000	4,000	78,000
S&E-related occupations	2,262,000	1,312,000	148,000	627,000	175,000
Non-S&E occupations	8,929,000	4,987,000	536,000	2,530,000	875,000
Doctorate	1,796,000	805,000	717,000	147,000	128,000
S&E occupations	786,000	313,000	369,000	25,000	80,000
Biological, agricultural, and other life scientists	217,000	69,000	112,000	7,000	30,000
Computer and mathematical scientists	150,000	85,000	56,000	2,000	8,000
Physical and related scientists	101,000	31,000	52,000	3,000	15,000
Social and related scientists	201,000	64,000	107,000	13,000	17,000
Engineers	116,000	63,000	43,000	D	10,000
S&E-related occupations	267,000	162,000	63,000	28,000	13,000
Non-S&E occupations	743,000	330,000	285,000	94,000	35,000
Professional	3,036,000	2,312,000	230,000	79,000	415,000
S&E occupations	67,000	36,000	11,000	7,000	13,000
S&E-related occupations	1,404,000	1,151,000	165,000	14,000	74,000
Non-S&E occupations	1,565,000	1,126,000	53,000	58,000	328,000
Foreign-born college graduates, all degrees, all occupations	8,126,000	6,136,000	674,000	600,000	717,000

TABLE 5-4

**Employed college graduates, by nativity, level of highest degree, major occupation, and employment sector: 2017**

(Number)

Nativity, level of highest degree, and occupation	Total	Business or industry	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Government <sup>b</sup>
S&E occupations	1,998,000	1,458,000	326,000	57,000	157,000
Biological, agricultural, and other life scientists	199,000	73,000	99,000	2,000	25,000
Computer and mathematical scientists	1,135,000	978,000	73,000	20,000	63,000
Physical and related scientists	108,000	27,000	39,000	21,000	20,000
Social and related scientists	102,000	31,000	53,000	S	5,000
Engineers	454,000	349,000	61,000	1,000	44,000
S&E-related occupations	1,630,000	1,253,000	147,000	88,000	141,000
Non-S&E occupations	4,499,000	3,425,000	200,000	456,000	418,000
Bachelor's	4,464,000	3,509,000	218,000	331,000	406,000
S&E occupations	829,000	653,000	80,000	29,000	67,000
Biological, agricultural, and other life scientists	38,000	17,000	18,000	D	3,000
Computer and mathematical scientists	539,000	475,000	24,000	9,000	32,000
Physical and related scientists	45,000	7,000	9,000	D	10,000
Social and related scientists	22,000	7,000	S	D	*
Engineers	184,000	147,000	15,000	D	22,000
S&E-related occupations	768,000	598,000	57,000	27,000	87,000
Non-S&E occupations	2,867,000	2,259,000	81,000	275,000	252,000
Master's	2,559,000	1,915,000	186,000	241,000	218,000
S&E occupations	811,000	649,000	86,000	23,000	52,000
Biological, agricultural, and other life scientists	46,000	23,000	20,000	1,000	3,000
Computer and mathematical scientists	505,000	446,000	25,000	10,000	25,000
Physical and related scientists	23,000	9,000	10,000	S	3,000
Social and related scientists	32,000	10,000	11,000	S	1,000
Engineers	203,000	162,000	20,000	D	21,000
S&E-related occupations	443,000	313,000	37,000	55,000	37,000
Non-S&E occupations	1,306,000	953,000	63,000	162,000	129,000
Doctorate	599,000	301,000	229,000	24,000	45,000
S&E occupations	339,000	145,000	154,000	4,000	36,000
Biological, agricultural, and other life scientists	105,000	29,000	59,000	1,000	17,000
Computer and mathematical scientists	88,000	56,000	24,000	S	7,000
Physical and related scientists	40,000	11,000	21,000	D	8,000
Social and related scientists	41,000	11,000	25,000	1,000	3,000
Engineers	65,000	39,000	25,000	D	1,000
S&E-related occupations	103,000	67,000	27,000	4,000	4,000
Non-S&E occupations	157,000	88,000	48,000	16,000	5,000
Professional	504,000	411,000	41,000	5,000	47,000
S&E occupations	19,000	11,000	5,000	D	S
S&E-related occupations	316,000	275,000	26,000	D	13,000
Non-S&E occupations	169,000	125,000	9,000	3,000	31,000
U.S.-born college graduates, all degrees, all occupations	40,097,000	27,374,000	2,383,000	6,248,000	4,091,000
S&E occupations	4,771,000	3,430,000	554,000	159,000	628,000

TABLE 5-4

**Employed college graduates, by nativity, level of highest degree, major occupation, and employment sector: 2017**

(Number)

Nativity, level of highest degree, and occupation	Total	Business or industry	4-year educational institution <sup>a</sup>	2-year college or precollege educational institution	Government <sup>b</sup>
Biological, agricultural, and other life scientists	412,000	194,000	123,000	17,000	79,000
Computer and mathematical scientists	2,284,000	1,849,000	138,000	69,000	229,000
Physical and related scientists	258,000	127,000	70,000	5,000	56,000
Social and related scientists	544,000	222,000	168,000	64,000	90,000
Engineers	1,274,000	1,039,000	56,000	5,000	174,000
S&E-related occupations	6,642,000	4,615,000	447,000	1,077,000	502,000
Non-S&E occupations	28,684,000	19,329,000	1,382,000	5,012,000	2,962,000
Bachelor's	25,667,000	19,121,000	973,000	3,025,000	2,548,000
S&E occupations	3,018,000	2,423,000	186,000	45,000	365,000
Biological, agricultural, and other life scientists	192,000	112,000	44,000	3,000	32,000
Computer and mathematical scientists	1,680,000	1,423,000	64,000	31,000	162,000
Physical and related scientists	119,000	66,000	26,000	D	27,000
Social and related scientists	150,000	78,000	27,000	9,000	36,000
Engineers	876,000	742,000	24,000	1,000	108,000
S&E-related occupations	3,570,000	2,646,000	161,000	469,000	294,000
Non-S&E occupations	19,079,000	14,052,000	627,000	2,511,000	1,889,000
Master's	10,701,000	5,848,000	733,000	3,027,000	1,093,000
S&E occupations	1,258,000	815,000	148,000	87,000	209,000
Biological, agricultural, and other life scientists	102,000	38,000	25,000	6,000	34,000
Computer and mathematical scientists	533,000	390,000	43,000	36,000	65,000
Physical and related scientists	75,000	39,000	13,000	2,000	21,000
Social and related scientists	203,000	76,000	55,000	40,000	32,000
Engineers	345,000	271,000	13,000	4,000	57,000
S&E-related occupations	1,820,000	999,000	111,000	572,000	138,000
Non-S&E occupations	7,623,000	4,034,000	474,000	2,369,000	746,000
Doctorate	1,197,000	504,000	488,000	123,000	82,000
S&E occupations	447,000	168,000	215,000	21,000	43,000
Biological, agricultural, and other life scientists	112,000	41,000	53,000	6,000	13,000
Computer and mathematical scientists	62,000	29,000	31,000	S	1,000
Physical and related scientists	61,000	20,000	31,000	3,000	8,000
Social and related scientists	160,000	53,000	82,000	12,000	13,000
Engineers	51,000	25,000	18,000	D	8,000
S&E-related occupations	164,000	95,000	36,000	24,000	9,000
Non-S&E occupations	586,000	242,000	237,000	78,000	30,000
Professional	2,532,000	1,901,000	189,000	74,000	369,000
S&E occupations	48,000	25,000	6,000	6,000	11,000
S&E-related occupations	1,088,000	876,000	139,000	12,000	61,000
Non-S&E occupations	1,396,000	1,000,000	44,000	55,000	296,000

\* = 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> Four-year educational institution includes medical schools and university-affiliated research institutes.

<sup>b</sup> Government includes federal (civilian), military, state, and local employers.

**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, 2017.



TABLE 5-5

**Employed foreign-born college graduates, by broad field of highest degree, place of birth, and broad occupation: 2017**

(Number)

Field of highest degree and place of birth	Total	S&E occupations	S&E-related occupations	Non-S&E occupations
All foreign-born college graduates, all degree fields	8,126,000	1,998,000	1,630,000	4,499,000
India	1,255,000	574,000	244,000	437,000
Philippines	606,000	57,000	239,000	310,000
China	542,000	254,000	107,000	181,000
Mexico	484,000	68,000	73,000	344,000
Canada	323,000	57,000	58,000	209,000
Germany, not specified	288,000	49,000	46,000	192,000
Vietnam	234,000	64,000	52,000	117,000
South Korea	218,000	37,000	49,000	132,000
Taiwan	175,000	49,000	36,000	90,000
United Kingdom, not specified	174,000	32,000	27,000	115,000
Japan	143,000	28,000	21,000	94,000
Jamaica	138,000	8,000	34,000	95,000
Colombia	133,000	20,000	20,000	93,000
Iran	128,000	36,000	32,000	61,000
Cuba	120,000	15,000	27,000	78,000
Nigeria	114,000	17,000	36,000	61,000
Russia	108,000	35,000	14,000	59,000
France	104,000	25,000	12,000	68,000
Hong Kong	100,000	27,000	30,000	44,000
Pakistan	96,000	18,000	17,000	60,000
Dominican Republic	94,000	3,000	16,000	75,000
Peru	86,000	8,000	10,000	67,000
Brazil	86,000	18,000	8,000	60,000
Italy	85,000	18,000	12,000	55,000
Venezuela	82,000	12,000	7,000	63,000
All other countries	2,210,000	467,000	401,000	1,342,000
S&E fields	3,576,000	1,678,000	575,000	1,324,000
India	803,000	492,000	113,000	197,000
China	356,000	225,000	64,000	67,000
Mexico	161,000	55,000	45,000	61,000
Philippines	158,000	46,000	31,000	81,000
Vietnam	118,000	57,000	24,000	37,000
Germany, not specified	106,000	38,000	16,000	52,000
Canada	104,000	50,000	18,000	37,000
Taiwan	104,000	44,000	16,000	44,000
South Korea	92,000	28,000	20,000	44,000
Iran	86,000	31,000	18,000	37,000
United Kingdom, not specified	74,000	28,000	12,000	34,000
Russia	56,000	32,000	4,000	20,000
Japan	55,000	23,000	6,000	26,000
Pakistan	46,000	18,000	6,000	23,000
Nigeria	46,000	14,000	16,000	15,000
Ukraine	42,000	19,000	8,000	15,000
Cuba	41,000	11,000	S	26,000
Italy	41,000	17,000	6,000	18,000
France	41,000	20,000	2,000	S
Hong Kong	40,000	21,000	7,000	12,000
Colombia	38,000	13,000	6,000	18,000
Lebanon	35,000	23,000	S	S

TABLE 5-5

**Employed foreign-born college graduates, by broad field of highest degree, place of birth, and broad occupation: 2017**

(Number)

Field of highest degree and place of birth	Total	S&E occupations	S&E-related occupations	Non-S&E occupations
Bangladesh	34,000	17,000	2,000	15,000
Brazil	33,000	16,000	S	15,000
Jamaica	30,000	7,000	S	16,000
All other countries	835,000	333,000	118,000	384,000
S&E-related fields	1,365,000	126,000	897,000	342,000
Philippines	223,000	3,000	196,000	24,000
India	189,000	34,000	112,000	43,000
China	65,000	19,000	41,000	5,000
Canada	41,000	3,000	26,000	12,000
Mexico	36,000	2,000	15,000	19,000
Vietnam	33,000	6,000	21,000	6,000
South Korea	33,000	S	25,000	7,000
Germany, not specified	31,000	3,000	20,000	9,000
Taiwan	31,000	S	19,000	10,000
Haiti	30,000	S	25,000	D
Jamaica	27,000	D	22,000	4,000
Ukraine	26,000	D	9,000	16,000
Cuba	26,000	D	21,000	S
El Salvador	25,000	D	S	S
United Kingdom, not specified	23,000	S	12,000	8,000
Iran	23,000	S	14,000	S
Japan	23,000	D	14,000	6,000
Hong Kong	22,000	S	19,000	D
Russia	20,000	S	8,000	S
Peru	18,000	D	8,000	10,000
Pakistan	18,000	D	12,000	6,000
Nigeria	18,000	1,000	11,000	6,000
Iraq	18,000	D	S	D
Lebanon	15,000	D	S	D
Syria	15,000	D	15,000	D
All other countries	337,000	34,000	207,000	96,000
Non-S&E fields	3,184,000	194,000	158,000	2,833,000
Mexico	287,000	11,000	12,000	264,000
India	264,000	47,000	19,000	197,000
Philippines	225,000	8,000	12,000	205,000
Canada	178,000	4,000	15,000	159,000
Germany, not specified	151,000	9,000	10,000	131,000
China	122,000	10,000	3,000	108,000
South Korea	94,000	9,000	3,000	81,000
Vietnam	82,000	1,000	7,000	74,000
Colombia	82,000	S	S	73,000
Jamaica	80,000	S	D	75,000
United Kingdom, not specified	77,000	2,000	S	72,000
Japan	66,000	3,000	D	61,000
Dominican Republic	57,000	D	D	55,000
England	56,000	D	D	56,000
Cuba	53,000	D	D	48,000
France	52,000	2,000	S	48,000
Nigeria	51,000	D	9,000	40,000
Venezuela	50,000	S	D	47,000

TABLE 5-5

**Employed foreign-born college graduates, by broad field of highest degree, place of birth, and broad occupation: 2017**

(Number)

Field of highest degree and place of birth	Total	S&E occupations	S&E-related occupations	Non-S&E occupations
Thailand	46,000	2,000	D	44,000
Peru	44,000	1,000	*	42,000
Brazil	44,000	S	1,000	42,000
Taiwan	40,000	3,000	S	36,000
Guyana	39,000	D	D	34,000
Hong Kong	38,000	5,000	S	30,000
Italy	38,000	D	D	36,000
All other countries	869,000	60,000	38,000	771,000

\* = 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.

**Note(s):**

Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding. For each broad degree field, data are presented for the 25 countries with the largest numbers of foreign-born college graduates employed in the United States during the survey reference week. Data include non-U.S. citizens who are on permanent or temporary visas.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

## Technical Notes

---

### Survey Overview

*Purpose.* The National Survey of College Graduates (NSCG) provides data on the characteristics of the nation's college graduates, with a focus on those in the science and engineering (S&E) workforce. It samples individuals who are living in the United States during the survey reference week, have earned at least a bachelor's degree, and are younger than 76. By surveying college graduates in all academic disciplines, the NSCG provides data useful in understanding the relationship between college education and career opportunities, as well as the relationship between degree field and occupation.

The NSCG is designed to provide demographic, education, and career history information about college graduates and to complement another S&E-focused survey conducted by the National Center for Science and Engineering Statistics (NCSES): the Survey of Doctorate Recipients (SDR, <https://www.nsf.gov/statistics/srvydoctoratework/>). The NSCG and the SDR share a common reference date, and they use similar questionnaires and data processing guidelines.

These technical notes provide an overview of the 2017 NSCG. Complete details are provided in the 2017 NSCG Methodology Report, available upon request from the NSCG Survey Manager.

*Data collection authority.* The information collected in the NSCG is solicited under the authority of the National Science Foundation Act of 1950, as amended, and the America COMPETES Reauthorization Act of 2010. The Census Bureau collects the NSCG data, on behalf of NCSES, under the authority of Title 13, Section 8 of the United States Code. The Office of Management and Budget control number is 3145-0141.

*Survey contractor.* Census Bureau

*Survey sponsor.* NCSES.

*Major changes to the recent survey cycle.* The 2017 NSCG questionnaire added two new questions on U.S. military veteran status.

### Key Survey Information

*Frequency.* Biennial.

*Initial survey year.* 1993.

*Reference period.* The week of 1 February 2017.

*Response unit.* Individual.

*Sample or census.* Sample.

*Population size.* Approximately 61.2 million individuals.

*Sample size.* Approximately 124,000 individuals.

### Survey Design

*Target population.* The NSCG target population includes individuals who meet the following criteria:

- Earned a bachelor's degree<sup>1</sup> or higher prior to 1 January 2016
- Are not institutionalized and reside in the United States or Puerto Rico as of 1 February 2017
- Are younger than 76 years as of 1 February 2017

*Sampling frame.* Using a rotating panel design, the 2017 NSCG includes new sample cases from the 2015 American Community Survey (ACS) and returning sample cases from the 2015 NSCG.

The NSCG sampling frame for new sample cases included the following eligibility requirements:

- Were residing in the United States or Puerto Rico as of the ACS interview date
- Were noninstitutionalized as of the ACS interview date
- Had earned at least a bachelor's degree as of the ACS interview date
- Would be under the age of 76 as of 1 February 2017
- Did not have an inaccurate name or incomplete address on the ACS data file

Returning sample cases from the 2015 NSCG originated from three different frames (the 2009 ACS, 2011 ACS, and 2013 ACS) and had the following eligibility requirements:

- Were a complete interview or temporarily ineligible during their initial NSCG survey cycle
- Would be under the age of 76 as of 1 February 2017
- During the 2015 NSCG survey cycle, did not refuse to participate and request to be excluded from future NSCG cycles

*Sample design.* The NSCG sample design is cross-sectional with a rotating panel element. As a cross-sectional study, the NSCG provides estimates of the size and characteristics of the college graduate population for a point in time. As part of the rotating panel design, every new panel receives a baseline survey interview and three biennial follow-up interviews before rotating out of the survey.

The NSCG uses a stratified sampling design to select its sample from the eligible sampling frame. In the new sample, cases in the S&E strata were selected using systematic sampling, and cases in the non-S&E strata were selected with probability proportional to size (PPS) sampling.<sup>2</sup> Among the returning sample, all eligible cases were selected. The sampling strata were defined by the cross classification of the following four variables:

- Young graduate oversample group eligibility indicator (2 levels)
- Demographic group (9 levels)
- Highest degree type (3 levels)
- Detailed occupation group (25 levels, with over half in S&E)

As was the case in the 2015 NSCG, the 2017 NSCG includes an oversample of young graduates to improve the precision of estimates for this important population. The 2017 NSCG includes approximately 124,000 sample cases drawn from the following:

- Returning sample from the 2010 NSCG who were originally selected from the 2009 ACS
- Returning sample from the 2013 NSCG who were originally selected from the 2011 ACS
- Returning sample from the 2015 NSCG who were originally selected from the 2013 ACS
- New sample selected from the 2015 ACS

Approximately 76,000 cases were selected from the returning sample members for one of the three biennial follow-up interviews that are part of the rotating panel design. For the baseline survey interview, about 48,000 new sample cases were selected from the 2015 ACS.

## Data Collection and Processing Methods

*Data collection.* The data collection period lasted approximately 6 months (17 April 2017 to 29 October 2017). The NSCG used a trimodal data collection approach: self-administered online survey (Web), self-administered paper questionnaire (via mail), and computer-assisted telephone interview (CATI). Individuals in the sample generally were started in the Web mode, depending on their available contact information and past preference. After an initial survey invitation, the data collection protocol included sequential contacts by postal mail, e-mail, and telephone that ran throughout the data collection period. At any time during data collection, sample members could choose to complete the survey using any of the three modes. Nonrespondents to the initial survey invitation received follow-up contacts via alternate modes.

Quality assurance procedures were in place at each data collection step (e.g., address updating, printing, package assembly and mailing, questionnaire receipt, data entry, CATI, coding, and post-data collection processing).

*Mode.* About 79% of the participants completed the survey by Web, 12% by mail, and 9% by CATI.

*Response rates.* Response rates were calculated on complete responses, that is, from instruments with responses to all critical items. Critical items are those containing information needed to report labor force participation (including employment status, job title, and job description), college education (including degree type, degree date, and field of study), and location of residency on the reference date. The overall unweighted response rate was 70%; the weighted response rate was 71%. Of the 123,861 persons in the 2017 NSCG sample, 83,672 completed the survey.

*Data editing.* Response data had initial editing rules applied relative to the specific mode of capture to check internal consistency and valid range of response. The Web survey captured most of the survey responses and had internal editing controls where appropriate. A computer-assisted data entry (CADE) system was used to process the mailed paper forms. Responses from the three separate modes were merged for subsequent coding, editing, and cleaning necessary to create an analytical database.

Following established NCSES guidelines for coding NSCG survey data, including verbatim responses, staff were trained in conducting a standardized review and coding of occupation and education information, certifications, “other/specify” verbatim responses, state and country geographical information, and postsecondary institution information. For standardized coding of occupation (including auto-coding), the respondent's reported job title, duties and responsibilities, and other work-related information from the questionnaire were reviewed by specially trained coders who corrected respondents' self-reporting errors to obtain the best occupation codes. (See [technical table A-2](#) for a list and classification of coded occupations reported in the NSCG.) For standardized coding of field of study associated with any reported degree (including auto-coding), the respondent's reported department, degree level, and field of study information from the questionnaire were reviewed by specially trained coders who corrected respondents' self-reporting errors to obtain the best field of study codes. (See [technical table A-1](#) for a list and classification of coded fields of study reported in the NSCG.)

*Imputation.* Logical imputation was primarily accomplished as part of editing. In the editing phase, the answer to a question with missing data was sometimes determined by the answer to another question. In some circumstances, editing procedures found inconsistent data that were blanked out and therefore subject to statistical imputation.

The item nonresponse rates reflect data missing after logical imputation or editing but before statistical imputation. For key employment items—such as employment status, sector of employment, and primary work activity—the item nonresponse rates ranged from 0.00% to 1.07%. Nonresponse to questions deemed sensitive was higher: nonresponse to salary and earned income was 4.54% and 6.30%, respectively, for the new sample members and 5.33% and 7.43%, respectively, for the returning members. Personal demographic data of the new sample members had variable item nonresponse rates, with sex at 0.00%, birth year at 0.02%, marital status at 0.24%, citizenship at 0.13%, ethnicity at 0.92%, and race at 2.33%. The nonresponse rates for returning sample members were 1.52% for marital status and 1.41% for citizenship.

Item nonresponse was typically addressed using statistical imputation methods. Most NSCG variables were subjected to hot-deck imputation, with each variable having its own class and sort variables chosen by regression modeling to identify nearest neighbors for imputed information. For some variables, there was no set of class and sort variables that was reliably related to or suitable for predicting the missing value, such as day of birth. In these instances, random imputation was used, so that the distribution of imputed values was similar to the distribution of reported values without using class or sort variables.

Imputation was not performed on critical items or on verbatim-based variables. In addition, for some missing demographic information, the NSCG imported the corresponding data from the ACS, which had performed its own imputation.

*Weighting.* Because the NSCG is based on a complex sampling design and subject to nonresponse bias, sampling weights were created for each respondent to support unbiased population estimates. The final analysis weights account for several factors, including the following:

- Adjustments to account for undercoverage of recent immigrants and undercoverage of recent degree-earners
- Adjustment for incorrect names or incomplete address information on the sampling frame
- Differential sampling rates
- Adjustments to account for non-locatability and unit nonresponse
- Adjustments to align the sample distribution with population controls
- Trimming of extreme weights
- Overlap procedures to convert weights that reflect the population of each individual frame (2009 ACS, 2011 ACS, 2013 ACS, and 2015 ACS) into a final sample weight that reflects the 2017 NSCG target population.

The final sample weights enable data users to derive survey-based estimates of the NSCG target population. The variable name on the NSCG public use data files for the NSCG final sample weight is WTSURVY.

*Variance estimation.* The successive difference replication method (SDRM) was used to develop replicate weights for variance estimation. The theoretical basis for the SDRM is described in Wolter (1984) and in Fay and Train (1995). As with any replication method, successive difference replication involves constructing numerous subsamples (replicates) from the full sample and computing the statistic of interest for each replicate. The mean square error of the replicate estimates around their corresponding full sample estimate provides an estimate of the sampling variance of the statistic of interest. The 2017 NSCG produced 320 sets of replicate weights.

*Disclosure protection.* To protect against the disclosure of confidential information provided by NSCG respondents, the estimates presented in NSCG data tables are rounded to the nearest 1,000.

Data table cell values based on counts of respondents that fall below a predetermined threshold are deemed to be sensitive to potential disclosure, and the letter “D” indicates this type of suppression in a table cell.

## Survey Quality Measures

*Sampling error.* NSCG estimates are subject to sampling errors. Estimates of sampling errors associated with this survey were calculated using replicate weights and are available upon request from the NSCG Survey Manager. Data table estimates with coefficients of variation (that is, the estimate divided by the standard error) that exceed a predetermined threshold are deemed unreliable and are suppressed. The letter “S” indicates this type of suppression in a table cell.

*Coverage error.* Coverage error occurs in sample estimates when the sampling frame does not accurately represent the target population and is a type of nonsampling error. Any missed housing units or missed individuals within sample households in the ACS would create undercoverage in the NSCG. Additional undercoverage errors may exist because of self-reporting errors in the NSCG sampling frame that led to incorrect classification of individuals as not having a bachelor's degree or higher when in fact they held such a degree.

*Nonresponse error.* The weighted response rate for the 2017 NSCG was 71%; the unweighted response rate was 70%. Analyses of NSCG nonresponse trends were used to develop nonresponse weighting adjustments to minimize the potential for nonresponse bias in the NSCG estimates. A hot deck imputation method was used to compensate for item nonresponse.

*Measurement error.* The NSCG is subject to reporting errors from differences in interpretation of questions and by modality (Web, mail, CATI). To reduce measurement errors, the NSCG questionnaire items were pretested in focus groups and cognitive interviews.

## Data Comparability and Changes

*Data comparability.* Year-to-year comparisons of the nation's college-educated population can be made among the 1993, 2003, 2010, 2013, 2015, and 2017 survey cycles because many of the core questions remained the same. Because the 1995, 1997, 1999, 2006, and 2008 surveys do not provide full coverage of the nation's college-educated population, comparisons between these cycles and other cycles should be limited to those individuals educated in S&E fields or employed in S&E occupations. Also, because of the use of different reference months in some survey cycles, seasonal differences may occur when making comparisons across years. Thus, use caution when interpreting cross-cycle comparisons.

There is overlap in the cases included in the 2010 NSCG through the 2017 NSCG (see [figure 1](#)). The overlap among cases allows for longitudinal analysis of a subset of the NSCG sample using restricted use data files within NCSES' Secure Data Access Facility (SDAF). Cases can be linked across survey years using a unique identification variable and single-frame weights are available for each survey year, allowing for the evaluation of estimates from each frame independently. If you are interested in applying for a license to access restricted use NSCG data via the SDAF, please visit the [NCSES Restricted-Use Licensing page](#). Moreover, the Census Bureau offers NSCG restricted use data files that include a few additional data elements. These files can be accessed via the [Federal Statistical Research Data Centers \(census.gov\)](#).



FIGURE 1

## Rotating panel design and sample sizes for the National Survey of College Graduates: 2010–17

NSCG year	Cohort/panel				Total sample size
2010	Returning sample		New sample		100,000
	2008 NSCG and NSRCG (n ≈ 35,000)		2009 ACS (n ≈ 65,000)		
2013	Returning sample		New sample		143,000
	2010 NSRCG (n ≈ 13,000)	2009 ACS (n ≈ 47,000)	2011 ACS (n ≈ 83,000)		
2015	Returning sample			New sample	135,000
	2010 NSRCG (n ≈ 13,000)	2009 ACS (n ≈ 23,000)	2011 ACS (n ≈ 57,000)	2013 ACS (n ≈ 42,000)	
2017	Returning sample			New sample	124,000
		2009 ACS (n ≈ 23,000)	2011 ACS (n ≈ 28,000)	2013 ACS (n ≈ 25,000)	
				2015 ACS (n ≈ 48,000)	

NSCG = National Survey of College Graduates; NSRCG = National Survey of Recent College Graduates; ACS = American Community Survey

**Note(s):**

During a panel's second survey cycle (in which it is part of the returning sample for the first time), its members include individuals who responded or who were temporarily ineligible during the first cycle. During a panel's third and fourth cycles, its members include all respondents, nonrespondents, and temporarily ineligible cases from the preceding cycle. Beginning in 2013, the NSCG transitioned to a design that includes an oversample of young graduates to improve the precision of estimates for this important population.

**Source(s):**

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

*Changes in survey sampling*

- Starting with the 2010 survey cycle, the NSCG has used a rotating panel sample design in which a new sample is selected every survey cycle from the most recent ACS and the cases are followed over four survey cycles. After the fourth cycle, the cases rotate out of the NSCG and are replaced by a newly selected panel of cases from the most recent ACS.
- Beginning in the 2013 cycle, NCSSES discontinued the National Survey of Recent College Graduates (NSRCG) and expanded the sample of young college graduates in the NSCG. The 2010 NSRCG sample cases were carried forward through the 2015 NSCG survey cycle as the NSCG transitioned to a design that included a young college graduate oversample.
- Figure 1** summarizes the NSCG rotating panel design and the sample sizes for the 2010 through 2017 NSCG survey cycles. Each new NSCG survey cycle adds new cases from the most recent ACS survey year to offset the rotating out of the oldest NSCG panel.

### *Changes in questionnaire*

- 2017. The 2017 NSCG questionnaire added two new questions about U.S. military veteran status that are asked on the ACS.
- 2015. The 2015 NSCG questionnaire added a section on professional certifications and licenses.
- 2013. The 2013 NSCG questionnaire added questions about attendance at community colleges, amounts borrowed to finance undergraduate and graduate degrees, and sources of financial support for undergraduate and graduate degrees. The 2013 questionnaire also differed from the 2010 questionnaire by splitting the first response category for the indicator of sample member location on the survey reference date into two categories. “United States, Puerto Rico, or another U.S. territory” became “United States or Puerto Rico” and “Another U.S. territory.”
- 2010. The 2010 NSCG questionnaire added items on components of job satisfaction, importance of job benefits, year of retirement, whether employer is a new business, and degree of difficulty concentrating, remembering, or making decisions.

### *Changes in reporting procedures*

- In past years, NSCG data were combined with data from the SDR and the NSRCG to form the Scientists and Engineers Statistical Data System (SESTAT). The last series of tables produced from SESTAT used 2013 NSCG data. Since then, NSCG data have been used as a sole source in numerous tables for NCSES’s two congressionally mandated reports (*Science and Engineering Indicators* and *Women, Minorities, and Persons with Disabilities in Science and Engineering*).

### *Changes in microdata*

- NSCG public use data files can no longer be linked across cycles. The NSCG public use data files now include a case identifier (OBSNUM), which is a random number for each case in each cycle.

## **Definitions**

*Field of degree.* NSCG respondents are asked to report each degree they have earned at the bachelor’s level or higher, along with the major field of study for each degree. The 2017 NSCG used a taxonomy of 142 “detailed” fields of study from which respondents could select the field that best represented their major. These “detailed” fields of study were aggregated into 31 “minor” fields, 7 “major” fields, and 3 “broad” fields (S&E, S&E-related, and non-S&E). *S&E fields of degree* are those included in the following five major categories: (1) computer and mathematical sciences; (2) biological, agricultural, and environmental life sciences; (3) physical sciences; (4) social sciences; and (5) engineering. *S&E-related fields of degree* are those included in the following four categories: (1) health, (2) science and mathematics teacher education, (3) technology and technical fields, and (4) other S&E-related fields. (See [technical table A-1](#) for a list and classification of fields of degree reported in the NSCG.)

*Full-time and part-time employment.* Full-time (working 35 hours or more per week) and part-time (working less than 35 hours per week) employment status is for the principal job only and not for all jobs held in the labor force. For example, an individual who works part time in his or her principal job but full time in the labor force would be tabulated as part-time.

*Highest degree level.* NSCG respondents report the degrees they have earned at the bachelor’s level (e.g., BS, BA, AB), master’s level (e.g., MS, MA, MBA), and doctorate level (e.g., PhD, DSc, EdD), as well as other professional degrees (e.g., JD, LLB, MD, DDS, DVM). Because the NSCG is focused on the S&E workforce, the sampling strategy does not include a special effort to select individuals with professional degrees. As such, there is not always sufficient data for the professional degrees to be reported separately in the tables.

*Occupation data.* The occupational classification of the respondent was based on his or her principal job (including job title) held during the reference week—or on his or her last job held, if not employed in the reference week (survey questions A5 and A6 as well as A16 and A17). Also used in the occupational classification was a respondent-selected job code (survey questions A7 and A18). *S&E occupations* are those included in the following five major categories: (1) computer and mathematical scientists; (2) biological, agricultural, and other life scientists; (3) physical scientists; (4) social scientists; and (5) engineers. S&E-related occupations require science and technology expertise but are not part of the five major categories of S&E occupations. *S&E-related occupations* are those included in the following five categories: (1) health-related occupations, (2) S&E managers, (3) S&E precollege teachers, (4) S&E technicians and technologists, and (5) other S&E-related occupations. (See [technical table A-2](#) for a list and classification of occupations reported in the NSCG.)

*Race and ethnicity.* Ethnicity is defined as Hispanic or Latino or not Hispanic or Latino. Values for those selecting a single race include American Indian or Alaska Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, and White. Those persons who report more than one race and who are not of Hispanic or Latino ethnicity also have a separate value.

*Research and development (R&D).* R&D includes the work activities of (1) basic research, (2) applied research, (3) development, and (4) the design of equipment, processes, structures, and models.

*Salary.* Median annual salaries are reported for the principal job, rounded to the nearest \$1,000, and computed only for individuals employed full time. For individuals employed by educational institutions, no accommodation was made to convert academic year salaries to calendar year salaries.

*Science and engineering (S&E) workforce.* Individuals working in an S&E or S&E-related occupation or who earned an S&E or S&E-related degree and are working in a non-S&E occupation.

*Scientists and engineers.* The NSCG data tables use a narrow definition of scientists and engineers based solely on occupation: individuals employed in an S&E occupation. In other NCSES publications, the definition of scientists and engineers may be broadened to include individuals employed in S&E-related occupations, as well as individuals who may not be working in an S&E or S&E-related occupation but who earned an S&E or S&E-related degree.

*Sector of employment.* Employment sector is a derived variable based on responses to questionnaire items A13, A14, and A15. In the data tables, the category 4-year educational institution includes 4-year colleges or universities, medical schools (including university-affiliated hospitals or medical centers), and university-affiliated research institutes. Two-year and precollege institutions include community colleges, technical institutes, and other educational institutions (which respondents reported verbatim in the survey questionnaire). For-profit business or industry includes respondents who were self-employed in an incorporated business. Self-employed includes respondents who were self-employed or were a business owner in a non-incorporated business.

## References

- Fay RE, Train GF. 1995. Aspects of Survey and Model-Based Postcensal Estimation of Income and Poverty Characteristics for States and Counties. *American Statistical Association Proceedings of the Section on Government Statistics*, 154–59.
- Wolter K. 1984. An Investigation of Some Estimators of Variance for Systematic Sampling. *Journal of the American Statistical Association* 79(388):781–90.

## Notes

---

1 “Bachelor’s degrees” include equivalent undergraduate academic degrees awarded by colleges and universities in countries that may name their degrees differently.

2 With PPS sampling, the probability of selection was proportional to the ACS final person-level weight, adjusted to account for imputed educational attainment, incomplete addresses, or invalid names.

## Technical Tables

---

Table	Title
<a href="#">A-1</a>	Fields of study used in the NSCG data tables
<a href="#">A-2</a>	Occupations used in the NSCG data tables

---

TABLE A-1

## Fields of study used in the NSCG data tables

(Crosswalk)

Broad field	Major field (e.g., NDGMEMG)		Minor field (e.g., NDGMENG)		Detailed field (e.g., N2DGRMED)	
	Code	Label	Code	Label	Code	Label
S&E fields	1	Computer and mathematical sciences	11	Computer and information sciences	116710	Computer and information sciences
					116730	Computer science
					116740	Computer systems analysis
					116760	Information services and systems
					116770	Other computer and information sciences
			12	Mathematics and statistics	128410	Applied mathematics
					128420	Mathematics, general
					128430	Operations research
					128440	Statistics
					128450	Other mathematics
	2	Biological, agricultural, and environmental life sciences	21	Agricultural and food sciences	216050	Animal sciences
					216060	Food sciences and technology
					216070	Plant sciences
					216080	Other agricultural sciences
			22	Biological sciences	226310	Biochemistry and biophysics
					226320	Biology, general
					226330	Botany
					226340	Cell and molecular biology
					226350	Ecology
					226360	Genetics, animal and plant
					226370	Microbiological sciences and immunology
					226380	Nutritional sciences
					226390	Pharmacology, human and animal
					226400	Physiology and pathology, human and animal
			226410	Zoology, general		
			226420	Other biological sciences		
			23	Environmental life sciences	236800	Environmental science or studies
	236810	Forestry sciences				
	3	Physical and related sciences	31	Chemistry, except biochemistry	318730	Chemistry, except biochemistry
					328720	Atmospheric sciences and meteorology
			32	Earth, atmospheric, and ocean sciences	328740	Earth sciences
					328750	Geology
					328760	Geological sciences, other
					328770	Oceanography
			33	Physics and astronomy	338710	Astronomy and astrophysics
					338780	Physics
			34	Other physical sciences	348790	Other physical sciences
	4	Social and related sciences	41	Economics	416010	Agricultural economics
					419230	Economics
			42	Political and related sciences	429020	Public policy studies
429270					International relations	
429280					Political science and government	
43			Psychology	437040	Educational psychology	
				438910	Clinical psychology	
				438920	Counseling psychology	
				438930	Experimental psychology	
				438940	General psychology	

TABLE A-1

## Fields of study used in the NSCG data tables

(Crosswalk)

Broad field	Major field (e.g., NDGMEMG)		Minor field (e.g., NDGMENG)		Detailed field (e.g., N2DGRMED)					
	Code	Label	Code	Label	Code	Label				
					438950	Industrial/ organizational psychology				
					438960	Social psychology				
					438970	Other psychology				
			44	Sociology and anthropology	449210	Anthropology and archaeology				
					449220	Criminology				
					449290	Sociology				
			45	Other social sciences	456200	Area and ethnic studies				
					457710	Linguistics				
					458610	Philosophy of science				
					459240	Geography				
					459250	History of science				
					459300	Other social sciences				
					5	Engineering		51	Aerospace, aeronautical, and astronautical engineering	517210
			52	Chemical engineering				527250	Chemical engineering	
	53	Civil and architectural engineering	537230	Architectural engineering						
			537260	Civil engineering						
	54	Electrical and computer engineering	547270	Computer and systems engineering						
			547280	Electrical, electronics, and communications engineering						
	55	Industrial engineering	557330	Industrial and manufacturing engineering						
	56	Mechanical engineering		567350				Mechanical engineering		
				57				Other engineering	577220	Agricultural engineering
									577240	Bioengineering and biomedical engineering
									577290	Engineering sciences, mechanics and physics
									577300	Environmental engineering
									577310	Engineering, general
					577320	Geophysical and geological engineering				
					577340	Materials engineering, including ceramics and textiles				
577360					Metallurgical engineering					
577370					Mining and minerals engineering					
577380	Naval architecture and marine engineering									
577390	Nuclear engineering									
577400	Petroleum engineering									
577410	Other engineering									
S&E-related fields	6	S&E-related fields	61	Health	617810	Audiology and speech pathology				
					617820	Health services administration				
					617830	Health/ medical assistants				
					617840	Health/ medical technologies				
					617850	Medical preparatory programs (e.g., pre-dentistry, medical, veterinary)				
					617860	Medicine (e.g., dentistry, optometry, osteopathic, podiatry, veterinary)				
					617870	Nursing (4 years or longer program)				
					617880	Pharmacy				

TABLE A-1

## Fields of study used in the NSCG data tables

(Crosswalk)

Broad field	Major field (e.g., NDGMEMG)		Minor field (e.g., NDGMENG)		Detailed field (e.g., N2DGRMED)				
	Code	Label	Code	Label	Code	Label			
					617890	Physical therapy and other rehabilitation/ therapeutic services			
					617900	Public health (including environmental health and epidemiology)			
					617910	Other health/ medical sciences			
			62	Science and mathematics teacher education	627020	Computer teacher education			
					627060	Mathematics teacher education			
					627090	Science teacher education			
					627120	Social science teacher education			
			63	Technology and technical fields	636720	Computer programming			
					636750	Data processing			
					637510	Electrical and electronic technologies			
					637520	Industrial production technologies			
					637530	Mechanical engineering-related technologies			
			64	Other science and engineering-related fields	637540	Other engineering-related technologies			
					646100	Architecture/ environmental design			
							646520	Actuarial science	
			Non-S&E fields	7	Non-S&E fields	71	Management and administration fields	716020	Other agricultural business and production
								716510	Accounting
716530	Business administration and management								
716540	Business, general								
716550	Business and managerial economics								
716570	Financial management								
716590	Other business management/ administrative services								
72	Education, except science and math teacher education	727010						Education administration	
		727030						Counselor education and guidance services	
		727050						Elementary teacher education	
		727070						Physical education and coaching	
		727080						Pre-school/ kindergarten/ early childhood teacher education	
		727100				Secondary teacher education			
73	Social service and related fields	727110				Special education			
		727130				Other education			
		738620				Other philosophy, religion, theology			
74	Sales and marketing fields	739100				Social work			
		746560				Business marketing/ marketing management			
75	Art and humanities fields	746580				Marketing research			
		757600				English language, literature and letters			
		757720				Other foreign languages and literature			
		758200				Liberal arts/ general studies			
		759260				History, other			
		759410				Dramatic arts			
		759420				Fine arts, all fields			
		759430	Music, all fields						
759440	Other visual and performing arts								



TABLE A-1

**Fields of study used in the NSCG data tables**

(Crosswalk)

Broad field	Major field (e.g., NDGMEMG)		Minor field (e.g., NDGMENG)		Detailed field (e.g., N2DGRMED)	
	Code	Label	Code	Label	Code	Label
			76	Other non-S&E fields	766610	Communications, general
					766620	Journalism
					766630	Other communications
					766820	Other natural resources and conservation
					766900	Criminal justice/ protective services
					768000	Home economics
					768100	Law/ prelaw/ legal studies
					768300	Library science
					768500	Parks, recreation, leisure, and fitness studies
					769010	Public administration
					769030	Other public affairs
					769950	Other fields (not listed)

S&amp;E = science and engineering; NSCG = National Survey of College Graduates.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

TABLE A-2

## Occupations used in the NSCG data tables

(Crosswalk)

Broad occupation	Major occupation (N20CPRMG, N20CMLST)		Minor occupation (N20CPRNG, N20CNLST)		Detailed occupation (N20CPR, N20CLST)					
	Code	Label	Code	Label	Code	Label				
S&E occupations	1	Computer and mathematical scientists	11	Computer and information scientists	110510	Computer and information scientists, research				
					110520	Computer network architect				
					110540	Computer support specialists				
					110550	Computer system analysts				
					110560	Database administrators				
					110570	Information security analysts				
					110580	Network and computer systems administrators				
					110590	Software developers - applications and systems software				
					110600	Web developers				
					110610	Other computer and information science occupations				
					110880	Computer engineers, software				
					12	Mathematical scientists	121720	Mathematicians		
	121730	Operations research analysts, including modeling								
	121740	Statisticians								
	121760	Other mathematical scientists								
	18	Postsecondary teachers - computer and math sciences	182760	Postsecondary teachers: Computer sciences						
			182860	Postsecondary teachers: Mathematics and statistics						
			2	Biological, agricultural, and other life scientists			21	Agricultural and food scientists	210210	Agricultural and food scientists
							22	Biological and medical scientists	220220	Biochemists and biophysicists
	220230	Biological scientists								
	220250	Forestry and conservation scientists								
	220270	Medical scientists (excluding practitioners)								
	23	Environmental life scientists	230240	Forestry and conservation scientists						
	28	Postsecondary teachers - life and related sciences	282710	Postsecondary teachers: Agriculture						
			282730	Postsecondary teachers: Biological sciences						
			282970	Postsecondary teachers: Other natural sciences						
	3	Physical and related scientists	31	Chemists, except biochemists	311930	Chemists, except biochemists				
					32	Earth scientists, geologists, and oceanographers	321920	Atmospheric and space scientists		
							321940	Geologists, including earth scientists		
			321950	Oceanographers						
			33	Physicists and astronomers	331910	Astronomers				
					331960	Physicists, except biophysicists				
			34	Other physical and related scientists	341980	Other physical scientists				
			38	Postsecondary teachers - physical and related sciences	382750	Postsecondary teachers: Chemistry				
	382770	Postsecondary teachers: Earth, environmental, and marine sciences								
	382890	Postsecondary teachers: Physics								
4	Social and related scientists	41	Economists	412320	Economists					
		42	Political scientists	422350	Political scientists					
		43	Psychologists	432360	Psychologists, including clinical					

TABLE A-2

## Occupations used in the NSCG data tables

(Crosswalk)

Broad occupation	Major occupation (N20CPRMG, N20CMLST)		Minor occupation (N20CPRNG, N20CNLST)		Detailed occupation (N20CPR, N20CLST)				
	Code	Label	Code	Label	Code	Label			
			44	Sociologists and anthropologists	442310	Anthropologists			
					442370	Sociologists			
			45	Other social and related scientists	452380	Other social scientists			
			48	Postsecondary teachers - social and related sciences	482780	Postsecondary teachers: Economics			
					482900	Postsecondary teachers: Political science			
					482910	Postsecondary teachers: Psychology			
					482930	Postsecondary teachers: Sociology			
					482980	Postsecondary teachers: Other social sciences			
			5	Engineers		51	Aerospace, aeronautical, or astronautical engineers	510820	Aeronautical, aerospace, and astronautical engineers
						52	Chemical engineers	520850	Chemical engineers
						53	Civil, architectural, or sanitary engineers	530860	Civil engineers, including architectural and sanitary
						54	Electrical or computer hardware engineers	540870	Computer engineers, hardware
								540890	Electrical and electronics engineers
						55	Industrial engineers	550910	Industrial engineers
						56	Mechanical engineers	560940	Mechanical engineers
						57	Other engineers	570830	Agricultural engineers
								570840	Bioengineers or biomedical engineers
								570900	Environmental engineers
								570920	Marine engineers and naval architects
								570930	Materials and metallurgical engineers
570950	Mining and geological engineers								
570960	Nuclear engineers								
570970	Petroleum engineers								
570980	Sales engineers								
570990	Other engineers								
58	Postsecondary teachers - engineering	582800	Postsecondary teachers: Engineering						
S&E-related occupations	6	S&E-related occupations	61	Health-related occupations	611110	Diagnosing and treating practitioners			
					611120	Registered nurses, pharmacists, dieticians, therapists, physician assistants, nurse practitioners			
					611130	Health technologists and technicians			
					611140	Other health occupations			
					612870	Postsecondary teachers, health and related sciences			
			62	S&E managers	621420	Computer and information systems managers			
					621430	Engineering managers			
					621440	Medical and health services managers			
					621450	Natural sciences managers			
			63	S&E precollege teachers	632530	Teachers: Secondary - computer, math or sciences			
					632540	Teachers: Secondary - social sciences			
			64	S&E technicians and technologists	640260	Technologists and technicians, biological and life sciences			

TABLE A-2

## Occupations used in the NSCG data tables

(Crosswalk)

Broad occupation	Major occupation (N2OCPRMG, N2OCMLST)		Minor occupation (N2OCPRNG, N2OCNLST)		Detailed occupation (N2OCPR, N2OCLST)	
	Code	Label	Code	Label	Code	Label
					640530	Computer programmers, business, scientific, and process control
					641000	Electrical, electronic, industrial, and mechanical technicians
					641010	Drafting occupations, including computer drafting
					641020	Surveying and mapping technicians
					641030	Other engineers, technologists, and technicians
					641040	Surveyors, cartographers, and photogrammetrists
					641750	Technologists and technicians in the mathematical sciences
					641970	Technologists and technicians in the physical sciences
			65	Other S&E-related occupations	650810	Architects
					651710	Actuaries
Non-S&E occupations	7	Non-S&E occupations	71	Non-S&E managers	711410	Top-level managers, executives, and administrators
					711460	Education administrators
					711470	Other mid-level managers
			72	Management-related occupations	721510	Accountants, auditors, and other financial specialists
					721520	Personnel, training, and labor relations specialists
					721530	Other management-related occupations
			73	Non-S&E precollege teachers	732510	Teachers: Pre-kindergarten and kindergarten
					732520	Teachers: Elementary
					732550	Teachers: Secondary - other subjects
					732560	Teachers: Special education - primary and secondary
					732570	Teachers: Other precollegiate area
			74	Non-S&E postsecondary teachers	742720	Postsecondary teachers: Art, drama, and music
					742740	Postsecondary teachers: Business commerce and marketing
					742790	Postsecondary teachers: Education
					742810	Postsecondary teachers: English
					742820	Postsecondary teachers: Foreign language
					742830	Postsecondary teachers: History
					742880	Postsecondary teachers: Physical education
					742990	Postsecondary teachers: Other postsecondary fields
			75	Social services and related occupations	750400	Clergy and other religious workers
					750700	Counselors, educational, vocational, mental health, and substance abuse
					752400	Social workers
			76	Sales and marketing occupations	762000	Insurance, securities, real estate, and business services

TABLE A-2

**Occupations used in the NSCG data tables**

(Crosswalk)

Broad occupation	Major occupation (N2OCPRMG, N2OCMLST)		Minor occupation (N2OCPRNG, N2OCNLST)		Detailed occupation (N2OCPR, N2OCLST)	
	Code	Label	Code	Label	Code	Label
					762010	Sales occupations, commodities, except retail
					762020	Sales occupations, retail
					762030	Other marketing and sales occupations
			77	Art, humanities, and related occupations	770100	Writers, editors, public relations specialists, artists, entertainers, and broadcasters
					772330	Historians
			78	Other non-S&E occupations	780310	Accounting clerks and bookkeepers
					780320	Secretaries, receptionists, and typists
					780330	Other administrative occupations
					781100	Farmers, foresters, and fishermen
					781200	Lawyers and judges
					781300	Librarians, archivists, and curators
					782210	Food preparation and service occupations
					782220	Protective services
					782230	Other service occupations, except health
					783000	Other teachers and instructors
					784010	Construction and extraction occupations
					784020	Installation, maintenance, and repair occupations
					784030	Precision/ production occupations
					784050	Transportation and material moving occupations
					785000	Other occupations

S&amp;E = science and engineering; NSCG = National Survey of College Graduates.

**Source(s):**

National Center for Science and Engineering Statistics, National Survey of College Graduates, 2017.

## Acknowledgments and Suggested Citation

---

### Acknowledgments

Lynn Milan of the National Center for Science and Engineering Statistics (NCSES) developed and coordinated this report under the leadership of Emilda B. Rivers, NCSES Director; Vipin Arora, NCSES Deputy Director; and John Finamore, NCSES Chief Statistician. Jock Black (NCSES) reviewed the report.

Under NCSES contract with SRI International, the SRI International team led by Paul Liu and Claire Lecornu compiled the tables in this report. Data and publication processing support was provided by Devi Mishra, Christine Hamel, Tanya Gore, Joe Newman, and Rajinder Raut (NCSES).

NCSES thanks the college graduates who participated in the NSCG for their time and effort in generously contributing to the information included in this report.

### Suggested Citation

National Center for Science and Engineering Statistics (NCSES). 2022. *National Survey of College Graduates: 2017*. NSF 22-331. Alexandria, VA: National Science Foundation. Available at <https://nces.nsf.gov/pubs/nsf22331/>.

## Contact Us

---

### Report Author

Lynn Milan  
Survey Manager  
Human Resources Statistics Program, NCSES  
Tel: (703) 292-2275  
E-mail: [lmilan@nsf.gov](mailto:lmilan@nsf.gov)

### NCSES

National Center for Science and Engineering Statistics  
Directorate for Social, Behavioral and Economic Sciences  
National Science Foundation  
2415 Eisenhower Avenue, Suite W14200  
Alexandria, VA 22314  
Tel: (703) 292-8780  
FIRS: (800) 877-8339  
TDD: (800) 281-8749  
E-mail [ncsesweb@nsf.gov](mailto:ncsesweb@nsf.gov)