National Center for Science and Engineering Statistics

National Survey of College Graduates: 2023

Data Tables | NSF 25-322 | January 13, 2025

Contents

General Notes

The National Survey of College Graduates, sponsored by the National Center for Science and Engineering Statistics (NCSES) within the U.S. 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 for examining other characteristics of college-educated individuals, including work activities, salary, and demographic information.

NCSES has reviewed this product for unauthorized disclosure of confidential information and approved its release (NCSES-DRN24-091).

Data Tables

Fields of study of college graduates

Occupations of college graduates

Work activities and job satisfaction of employed college graduates

Median salaries of full-time employed college graduates

Demographic characteristics of college graduates

College graduates over time

TABLE 1-1

College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2023

(Number)

Level and field of highest degree	Total	Employed				Unemployed[a]	Not in labor force[b]
		Total	S&E occupations	S&E-related occupations	Non-S&E occupations		
All degrees	71,697,000	56,061,000	8,711,000	11,253,000	36,097,000	1,771,000	13,865,000
S&E fields	22,109,000	17,566,000	6,518,000	2,955,000	8,093,000	602,000	3,941,000
Biological, agricultural, and environmental life sciences	3,537,000	2,721,000	755,000	760,000	1,206,000	88,000	728,000
Agricultural and food sciences	471,000	370,000	53,000	59,000	259,000	15,000	86,000
Biological sciences	2,633,000	2,012,000	625,000	651,000	736,000	65,000	556,000
Environmental life sciences	432,000	338,000	77,000	50,000	211,000	8,000	86,000
Computer and mathematical sciences	4,361,000	3,563,000	2,110,000	524,000	928,000	156,000	642,000
Computer and information sciences	3,332,000	2,781,000	1,811,000	407,000	562,000	122,000	430,000
Mathematics and statistics	1,029,000	782,000	299,000	117,000	366,000	34,000	212,000
Physical and related sciences	1,162,000	953,000	476,000	166,000	311,000	18,000	190,000
Chemistry, except biochemistry	474,000	370,000	182,000	73,000	115,000	10,000	94,000
Earth, atmospheric, and ocean sciences	356,000	301,000	142,000	42,000	116,000	5,000	50,000
Physics and astronomy	300,000	257,000	147,000	43,000	67,000	3,000	41,000
Other physical sciences	32,000	26,000	5,000	8,000	13,000	D	S
Social and related sciences	7,919,000	6,059,000	738,000	688,000	4,634,000	259,000	1,601,000
Economics	1,189,000	971,000	154,000	48,000	769,000	25,000	193,000
Political and related sciences	1,308,000	1,032,000	133,000	59,000	841,000	37,000	239,000
Psychology	3,380,000	2,511,000	246,000	424,000	1,841,000	126,000	743,000
Sociology and anthropology	1,286,000	948,000	116,000	81,000	751,000	43,000	295,000
Other social sciences	756,000	597,000	89,000	76,000	433,000	28,000	131,000
Engineering	5,131,000	4,270,000	2,438,000	818,000	1,014,000	80,000	780,000
Aerospace, aeronautical, and astronautical engineering	209,000	175,000	123,000	26,000	26,000	S	33,000
Chemical engineering	333,000	275,000	147,000	51,000	78,000	4,000	54,000
Civil and architectural engineering	666,000	553,000	302,000	91,000	161,000	6,000	107,000
Electrical and computer engineering	1,742,000	1,458,000	896,000	330,000	232,000	35,000	249,000
Industrial engineering	343,000	275,000	104,000	61,000	110,000	4,000	63,000
Mechanical engineering	1,072,000	916,000	553,000	139,000	224,000	13,000	143,000
Other engineering	765,000	617,000	314,000	120,000	183,000	18,000	130,000
S&E-related fields	10,707,000	8,556,000	534,000	6,204,000	1,818,000	193,000	1,959,000
Health	8,577,000	6,858,000	234,000	5,564,000	1,061,000	148,000	1,571,000
Science and mathematics teacher education	706,000	546,000	33,000	233,000	280,000	S	156,000
Technology and technical fields	727,000	563,000	216,000	126,000	220,000	30,000	135,000
Other S&E-related fields	697,000	589,000	52,000	281,000	257,000	12,000	96,000
Non-S&E fields	38,881,000	29,939,000	1,660,000	2,093,000	26,186,000	977,000	7,965,000
Management and administration fields	13,007,000	10,153,000	740,000	753,000	8,660,000	367,000	2,487,000

TABLE 1-1

College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2023

(Number)

Level and field of highest degree	Total	Employed				Unemployed[a]	Not in labor force[b]
		Total	S&E occupations	S&E-related occupations	Non-S&E occupations		
Education, except science and math teacher education	7,559,000	5,245,000	77,000	402,000	4,766,000	143,000	2,171,000
Social service and related fields	2,022,000	1,526,000	81,000	84,000	1,360,000	36,000	460,000
Sales and marketing fields	1,775,000	1,448,000	81,000	91,000	1,276,000	24,000	303,000
Art and humanities fields	6,295,000	4,937,000	293,000	379,000	4,266,000	196,000	1,161,000
Other non-S&E fields	8,222,000	6,630,000	388,000	383,000	5,858,000	211,000	1,382,000
Bachelor's	44,588,000	34,400,000	5,069,000	5,881,000	23,449,000	1,322,000	8,866,000
S&E fields	15,511,000	12,216,000	3,881,000	1,975,000	6,360,000	462,000	2,833,000
Biological, agricultural, and environmental life sciences	2,539,000	1,912,000	367,000	562,000	982,000	72,000	555,000
Agricultural and food sciences	378,000	300,000	24,000	45,000	230,000	S	67,000
Biological sciences	1,844,000	1,368,000	300,000	482,000	586,000	54,000	422,000
Environmental life sciences	317,000	244,000	42,000	35,000	166,000	7,000	66,000
Computer and mathematical sciences	2,973,000	2,437,000	1,357,000	351,000	728,000	112,000	424,000
Computer and information sciences	2,272,000	1,904,000	1,202,000	269,000	432,000	89,000	280,000
Mathematics and statistics	700,000	533,000	155,000	82,000	295,000	23,000	144,000
Physical and related sciences	689,000	543,000	210,000	99,000	234,000	12,000	133,000
Chemistry, except biochemistry	283,000	210,000	87,000	46,000	76,000	6,000	67,000
Earth, atmospheric, and ocean sciences	234,000	197,000	69,000	29,000	99,000	3,000	34,000
Physics and astronomy	153,000	123,000	53,000	19,000	51,000	2,000	28,000
Other physical sciences	19,000	15,000	2,000	S	9,000	D	S
Social and related sciences	5,773,000	4,417,000	367,000	422,000	3,628,000	207,000	1,149,000
Economics	994,000	822,000	95,000	44,000	684,000	20,000	152,000
Political and related sciences	962,000	741,000	59,000	45,000	637,000	33,000	188,000
Psychology	2,203,000	1,629,000	104,000	204,000	1,321,000	95,000	479,000
Sociology and anthropology	1,090,000	813,000	63,000	72,000	678,000	40,000	237,000
Other social sciences	524,000	411,000	46,000	58,000	307,000	18,000	94,000
Engineering	3,538,000	2,908,000	1,579,000	540,000	788,000	58,000	572,000
Aerospace, aeronautical, and astronautical engineering	141,000	115,000	83,000	16,000	16,000	D	25,000
Chemical engineering	253,000	210,000	110,000	35,000	65,000	S	41,000
Civil and architectural engineering	475,000	393,000	197,000	65,000	131,000	S	79,000
Electrical and computer engineering	1,157,000	955,000	575,000	216,000	164,000	28,000	174,000
Industrial engineering	244,000	193,000	62,000	46,000	85,000	S	47,000
Mechanical engineering	832,000	700,000	412,000	97,000	191,000	10,000	122,000
Other engineering	436,000	341,000	139,000	66,000	136,000	11,000	84,000
S&E-related fields	5,284,000	4,045,000	250,000	2,724,000	1,071,000	127,000	1,112,000
Health	3,943,000	2,986,000	69,000	2,346,000	570,000	95,000	862,000

TABLE 1-1

College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2023

(Number)

Level and field of highest degree	Total	Employed				Unemployed[a]	Not in labor force[b]
		Total	S&E occupations	S&E-related occupations	Non-S&E occupations		
Science and mathematics teacher education	328,000	253,000	9,000	S	139,000	D	73,000
Technology and technical fields	567,000	437,000	150,000	93,000	194,000	25,000	105,000
Other S&E-related fields	447,000	369,000	22,000	179,000	169,000	7,000	71,000
Non-S&E fields	23,793,000	18,138,000	939,000	1,182,000	16,018,000	733,000	4,921,000
Management and administration fields	8,617,000	6,607,000	349,000	391,000	5,868,000	289,000	1,721,000
Education, except science and math teacher education	3,138,000	2,013,000	24,000	107,000	1,881,000	103,000	1,022,000
Social service and related fields	797,000	544,000	45,000	20,000	478,000	S	241,000
Sales and marketing fields	1,437,000	1,185,000	61,000	83,000	1,040,000	S	236,000
Art and humanities fields	5,077,000	4,018,000	247,000	320,000	3,451,000	174,000	885,000
Other non-S&E fields	4,727,000	3,772,000	212,000	260,000	3,300,000	138,000	816,000
Master's	20,110,000	15,780,000	2,599,000	3,096,000	10,085,000	354,000	3,977,000
S&E fields	4,923,000	3,939,000	1,775,000	701,000	1,463,000	111,000	872,000
Biological, agricultural, and environmental life sciences	542,000	417,000	153,000	113,000	152,000	11,000	114,000
Agricultural and food sciences	62,000	45,000	16,000	6,000	22,000	S	13,000
Biological sciences	377,000	288,000	109,000	92,000	87,000	6,000	82,000
Environmental life sciences	103,000	84,000	28,000	14,000	43,000	D	19,000
Computer and mathematical sciences	1,232,000	985,000	642,000	161,000	182,000	43,000	204,000
Computer and information sciences	969,000	794,000	546,000	130,000	119,000	32,000	143,000
Mathematics and statistics	263,000	191,000	96,000	32,000	63,000	S	61,000
Physical and related sciences	226,000	196,000	115,000	39,000	41,000	2,000	28,000
Chemistry, except biochemistry	76,000	65,000	34,000	13,000	18,000	*	10,000
Earth, atmospheric, and ocean sciences	81,000	69,000	44,000	11,000	13,000	S	11,000
Physics and astronomy	62,000	55,000	36,000	13,000	6,000	D	6,000
Other physical sciences	7,000	7,000	1,000	S	4,000	D	D
Social and related sciences	1,664,000	1,272,000	206,000	166,000	901,000	39,000	353,000
Economics	147,000	115,000	37,000	4,000	74,000	4,000	28,000
Political and related sciences	303,000	262,000	54,000	12,000	196,000	S	38,000
Psychology	894,000	656,000	65,000	126,000	465,000	23,000	215,000
Sociology and anthropology	139,000	96,000	24,000	9,000	63,000	S	42,000
Other social sciences	181,000	143,000	25,000	15,000	102,000	S	30,000
Engineering	1,258,000	1,068,000	659,000	223,000	187,000	16,000	173,000
Aerospace, aeronautical, and astronautical engineering	56,000	48,000	31,000	9,000	8,000	D	8,000
Chemical engineering	45,000	34,000	20,000	7,000	7,000	D	9,000
Civil and architectural engineering	159,000	134,000	83,000	24,000	27,000	D	24,000
Electrical and computer engineering	483,000	412,000	260,000	96,000	56,000	5,000	65,000

TABLE 1-1

College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2023

(Number)

Level and field of highest degree	Total	Employed				Unemployed[a]	Not in labor force[b]
		Total	S&E occupations	S&E-related occupations	Non-S&E occupations		
Industrial engineering	82,000	68,000	34,000	12,000	23,000	1,000	13,000
Mechanical engineering	194,000	174,000	110,000	36,000	28,000	2,000	18,000
Other engineering	240,000	200,000	122,000	39,000	39,000	4,000	36,000
S&E-related fields	2,930,000	2,375,000	208,000	1,565,000	601,000	41,000	515,000
Health	2,180,000	1,766,000	103,000	1,305,000	358,000	29,000	386,000
Science and mathematics teacher education	358,000	279,000	20,000	127,000	132,000	S	77,000
Technology and technical fields	148,000	117,000	61,000	31,000	25,000	5,000	27,000
Other S&E-related fields	243,000	213,000	25,000	102,000	86,000	5,000	25,000
Non-S&E fields	12,257,000	9,466,000	616,000	830,000	8,021,000	201,000	2,590,000
Management and administration fields	4,310,000	3,479,000	387,000	357,000	2,735,000	77,000	755,000
Education, except science and math teacher education	4,085,000	2,965,000	39,000	271,000	2,654,000	37,000	1,083,000
Social service and related fields	1,096,000	889,000	23,000	62,000	805,000	14,000	192,000
Sales and marketing fields	330,000	257,000	20,000	8,000	229,000	S	67,000
Art and humanities fields	998,000	735,000	38,000	49,000	648,000	21,000	241,000
Other non-S&E fields	1,439,000	1,141,000	108,000	83,000	950,000	45,000	252,000
Doctorate	2,898,000	2,420,000	973,000	562,000	885,000	46,000	431,000
S&E fields	1,602,000	1,349,000	849,000	250,000	249,000	29,000	225,000
Biological, agricultural, and environmental life sciences	456,000	392,000	235,000	85,000	72,000	5,000	59,000
Agricultural and food sciences	31,000	26,000	12,000	S	6,000	D	6,000
Biological sciences	412,000	356,000	215,000	77,000	64,000	5,000	52,000
Environmental life sciences	12,000	10,000	7,000	S	S	D	S
Computer and mathematical sciences	156,000	141,000	111,000	12,000	18,000	1,000	14,000
Computer and information sciences	91,000	83,000	64,000	9,000	11,000	*	7,000
Mathematics and statistics	65,000	58,000	47,000	3,000	8,000	*	7,000
Physical and related sciences	247,000	214,000	151,000	27,000	35,000	4,000	29,000
Chemistry, except biochemistry	115,000	95,000	61,000	13,000	22,000	3,000	17,000
Earth, atmospheric, and ocean sciences	41,000	35,000	29,000	2,000	4,000	D	5,000
Physics and astronomy	86,000	79,000	59,000	11,000	9,000	*	6,000
Other physical sciences	5,000	4,000	2,000	D	D	D	S
Social and related sciences	409,000	309,000	153,000	72,000	85,000	13,000	87,000
Economics	47,000	34,000	23,000	*	10,000	D	12,000
Political and related sciences	43,000	29,000	19,000	2,000	7,000	D	13,000
Psychology	210,000	164,000	64,000	66,000	34,000	S	39,000
Sociology and anthropology	57,000	39,000	29,000	1,000	10,000	D	16,000
Other social sciences	51,000	43,000	17,000	S	23,000	D	7,000

TABLE 1-1

College graduates, by level of highest degree, minor field of highest degree, and labor force status: 2023

(Number)

Level and field of highest degree	Total	Employed				Unemployed[a]	Not in labor force[b]
		Total	S&E occupations	S&E-related occupations	Non-S&E occupations		
Engineering	334,000	293,000	200,000	55,000	39,000	7,000	35,000
Aerospace, aeronautical, and astronautical engineering	12,000	12,000	9,000	2,000	1,000	D	D
Chemical engineering	36,000	31,000	17,000	9,000	6,000	D	5,000
Civil and architectural engineering	32,000	27,000	22,000	2,000	3,000	D	4,000
Electrical and computer engineering	103,000	91,000	60,000	19,000	13,000	2,000	10,000
Industrial engineering	17,000	14,000	8,000	S	2,000	D	4,000
Mechanical engineering	47,000	43,000	32,000	6,000	6,000	S	3,000
Other engineering	88,000	76,000	53,000	15,000	8,000	3,000	9,000
S&E-related fields	422,000	372,000	54,000	264,000	54,000	S	49,000
Health	383,000	342,000	40,000	261,000	41,000	D	40,000
Science and mathematics teacher education	20,000	14,000	4,000	*	9,000	D	S
Technology and technical fields	12,000	9,000	5,000	S	S	D	S
Other S&E-related fields	7,000	7,000	4,000	D	2,000	D	*
Non-S&E fields	874,000	700,000	70,000	48,000	582,000	17,000	157,000
Management and administration fields	80,000	67,000	4,000	S	57,000	D	11,000
Education, except science and math teacher education	337,000	267,000	13,000	23,000	231,000	S	67,000
Social service and related fields	130,000	93,000	13,000	S	78,000	S	27,000
Sales and marketing fields	7,000	7,000	D	D	7,000	D	D
Art and humanities fields	220,000	184,000	8,000	S	167,000	D	35,000
Other non-S&E fields	100,000	82,000	32,000	S	43,000	D	16,000
Professional	4,101,000	3,461,000	70,000	1,714,000	1,677,000	50,000	591,000
S&E fields	73,000	62,000	13,000	28,000	20,000	D	11,000
S&E-related fields	2,071,000	1,765,000	22,000	1,652,000	91,000	24,000	283,000
Non-S&E fields	1,957,000	1,634,000	35,000	33,000	1,566,000	26,000	297,000

* = 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.

[a] 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.
[b] Not in 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, 2023.

TABLE 1-2

Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2023

(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	56,061,000	8,711,000	813,000	4,573,000	430,000	631,000	2,263,000	11,253,000	36,097,000
S&E fields	17,566,000	6,518,000	633,000	3,144,000	400,000	395,000	1,946,000	2,955,000	8,093,000
Biological, agricultural, and environmental life sciences	2,721,000	755,000	516,000	95,000	90,000	16,000	38,000	760,000	1,206,000
Agricultural and food sciences	370,000	53,000	42,000	3,000	5,000	*	2,000	59,000	259,000
Biological sciences	2,012,000	625,000	450,000	78,000	59,000	11,000	26,000	651,000	736,000
Environmental life sciences	338,000	77,000	24,000	14,000	26,000	S	9,000	50,000	211,000
Computer and mathematical sciences	3,563,000	2,110,000	10,000	1,989,000	6,000	11,000	95,000	524,000	928,000
Computer and information sciences	2,781,000	1,811,000	7,000	1,722,000	3,000	3,000	76,000	407,000	562,000
Mathematics and statistics	782,000	299,000	3,000	266,000	S	7,000	19,000	117,000	366,000
Physical and related sciences	953,000	476,000	56,000	89,000	267,000	2,000	62,000	166,000	311,000
Chemistry, except biochemistry	370,000	182,000	35,000	18,000	112,000	S	16,000	73,000	115,000
Earth, atmospheric, and ocean sciences	301,000	142,000	S	19,000	91,000	D	15,000	42,000	116,000
Physics and astronomy	257,000	147,000	3,000	51,000	62,000	S	30,000	43,000	67,000
Other physical sciences	26,000	5,000	D	D	2,000	D	2,000	8,000	13,000
Social and related sciences	6,059,000	738,000	18,000	323,000	11,000	363,000	23,000	688,000	4,634,000
Economics	971,000	154,000	1,000	98,000	*	46,000	8,000	48,000	769,000
Political and related sciences	1,032,000	133,000	D	52,000	2,000	70,000	6,000	59,000	841,000
Psychology	2,511,000	246,000	7,000	80,000	S	154,000	3,000	424,000	1,841,000
Sociology and anthropology	948,000	116,000	3,000	48,000	S	63,000	S	81,000	751,000
Other social sciences	597,000	89,000	S	45,000	6,000	30,000	4,000	76,000	433,000
Engineering	4,270,000	2,438,000	34,000	648,000	26,000	3,000	1,728,000	818,000	1,014,000
Aerospace, aeronautical, and astronautical engineering	175,000	123,000	D	15,000	D	D	108,000	26,000	26,000
Chemical engineering	275,000	147,000	8,000	13,000	6,000	D	119,000	51,000	78,000
Civil and architectural engineering	553,000	302,000	D	15,000	2,000	D	284,000	91,000	161,000
Electrical and computer engineering	1,458,000	896,000	D	468,000	2,000	D	425,000	330,000	232,000
Industrial engineering	275,000	104,000	D	35,000	D	D	68,000	61,000	110,000
Mechanical engineering	916,000	553,000	S	52,000	2,000	D	494,000	139,000	224,000
Other engineering	617,000	314,000	20,000	50,000	13,000	D	230,000	120,000	183,000
S&E-related fields	8,556,000	534,000	112,000	251,000	13,000	51,000	106,000	6,204,000	1,818,000
Health	6,858,000	234,000	105,000	75,000	9,000	31,000	14,000	5,564,000	1,061,000
Science and mathematics teacher education	546,000	33,000	S	23,000	S	3,000	2,000	233,000	280,000
Technology and technical fields	563,000	216,000	S	139,000	1,000	D	74,000	126,000	220,000
Other S&E-related fields	589,000	52,000	S	15,000	D	17,000	16,000	281,000	257,000
Non-S&E fields	29,939,000	1,660,000	67,000	1,178,000	18,000	185,000	212,000	2,093,000	26,186,000
Management and administration fields	10,153,000	740,000	22,000	547,000	4,000	30,000	137,000	753,000	8,660,000

TABLE 1-2

Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2023

(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		
Education, except science and math teacher education	5,245,000	77,000	4,000	40,000	2,000	20,000	10,000	402,000	4,766,000
Social service and related fields	1,526,000	81,000	S	48,000	D	27,000	4,000	84,000	1,360,000
Sales and marketing fields	1,448,000	81,000	D	63,000	D	S	9,000	91,000	1,276,000
Art and humanities fields	4,937,000	293,000	S	252,000	S	17,000	16,000	379,000	4,266,000
Other non-S&E fields	6,630,000	388,000	31,000	228,000	9,000	84,000	36,000	383,000	5,858,000
Bachelor's	34,400,000	5,069,000	315,000	2,999,000	186,000	168,000	1,402,000	5,881,000	23,449,000
S&E fields	12,216,000	3,881,000	274,000	2,080,000	176,000	103,000	1,247,000	1,975,000	6,360,000
Biological, agricultural, and environmental life sciences	1,912,000	367,000	222,000	55,000	62,000	9,000	19,000	562,000	982,000
Agricultural and food sciences	300,000	24,000	21,000	2,000	S	D	D	45,000	230,000
Biological sciences	1,368,000	300,000	188,000	44,000	48,000	6,000	14,000	482,000	586,000
Environmental life sciences	244,000	42,000	13,000	9,000	13,000	D	5,000	35,000	166,000
Computer and mathematical sciences	2,437,000	1,357,000	D	1,284,000	S	S	64,000	351,000	728,000
Computer and information sciences	1,904,000	1,202,000	D	1,149,000	*	D	52,000	269,000	432,000
Mathematics and statistics	533,000	155,000	D	135,000	D	S	13,000	82,000	295,000
Physical and related sciences	543,000	210,000	31,000	47,000	100,000	S	31,000	99,000	234,000
Chemistry, except biochemistry	210,000	87,000	18,000	12,000	50,000	D	8,000	46,000	76,000
Earth, atmospheric, and ocean sciences	197,000	69,000	S	10,000	38,000	D	8,000	29,000	99,000
Physics and astronomy	123,000	53,000	1,000	24,000	12,000	D	14,000	19,000	51,000
Other physical sciences	15,000	2,000	D	D	D	D	D	S	9,000
Social and related sciences	4,417,000	367,000	8,000	253,000	5,000	84,000	17,000	422,000	3,628,000
Economics	822,000	95,000	S	74,000	D	14,000	6,000	44,000	684,000
Political and related sciences	741,000	59,000	D	38,000	S	15,000	3,000	45,000	637,000
Psychology	1,629,000	104,000	3,000	65,000	S	31,000	2,000	204,000	1,321,000
Sociology and anthropology	813,000	63,000	D	41,000	D	18,000	S	72,000	678,000
Other social sciences	411,000	46,000	D	35,000	1,000	6,000	4,000	58,000	307,000
Engineering	2,908,000	1,579,000	13,000	441,000	8,000	D	1,116,000	540,000	788,000
Aerospace, aeronautical, and astronautical engineering	115,000	83,000	D	12,000	D	D	71,000	16,000	16,000
Chemical engineering	210,000	110,000	5,000	11,000	3,000	D	91,000	35,000	65,000
Civil and architectural engineering	393,000	197,000	D	12,000	D	D	184,000	65,000	131,000
Electrical and computer engineering	955,000	575,000	D	322,000	D	D	252,000	216,000	164,000
Industrial engineering	193,000	62,000	D	18,000	D	D	44,000	46,000	85,000
Mechanical engineering	700,000	412,000	D	40,000	D	D	370,000	97,000	191,000
Other engineering	341,000	139,000	S	27,000	3,000	D	103,000	66,000	136,000
S&E-related fields	4,045,000	250,000	13,000	145,000	S	15,000	73,000	2,724,000	1,071,000
Health	2,986,000	69,000	12,000	37,000	S	S	7,000	2,346,000	570,000

TABLE 1-2

Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2023

(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		
Science and mathematics teacher education	253,000	9,000	D	S	D	D	D	S	139,000
Technology and technical fields	437,000	150,000	D	91,000	D	D	58,000	93,000	194,000
Other S&E-related fields	369,000	22,000	D	9,000	D	5,000	7,000	179,000	169,000
Non-S&E fields	18,138,000	939,000	28,000	774,000	5,000	50,000	82,000	1,182,000	16,018,000
Management and administration fields	6,607,000	349,000	9,000	294,000	*	11,000	34,000	391,000	5,868,000
Education, except science and math teacher education	2,013,000	24,000	D	16,000	D	D	S	107,000	1,881,000
Social service and related fields	544,000	45,000	D	36,000	D	D	D	20,000	478,000
Sales and marketing fields	1,185,000	61,000	D	51,000	D	D	S	83,000	1,040,000
Art and humanities fields	4,018,000	247,000	S	221,000	S	8,000	12,000	320,000	3,451,000
Other non-S&E fields	3,772,000	212,000	14,000	156,000	2,000	19,000	21,000	260,000	3,300,000
Master's	15,780,000	2,599,000	211,000	1,347,000	119,000	242,000	680,000	3,096,000	10,085,000
S&E fields	3,939,000	1,775,000	130,000	877,000	103,000	141,000	525,000	701,000	1,463,000
Biological, agricultural, and environmental life sciences	417,000	153,000	94,000	25,000	20,000	3,000	11,000	113,000	152,000
Agricultural and food sciences	45,000	16,000	10,000	D	3,000	D	1,000	6,000	22,000
Biological sciences	288,000	109,000	75,000	20,000	5,000	2,000	7,000	92,000	87,000
Environmental life sciences	84,000	28,000	9,000	4,000	11,000	S	3,000	14,000	43,000
Computer and mathematical sciences	985,000	642,000	7,000	604,000	S	3,000	25,000	161,000	182,000
Computer and information sciences	794,000	546,000	S	517,000	S	2,000	20,000	130,000	119,000
Mathematics and statistics	191,000	96,000	2,000	87,000	S	1,000	5,000	32,000	63,000
Physical and related sciences	196,000	115,000	10,000	23,000	67,000	D	15,000	39,000	41,000
Chemistry, except biochemistry	65,000	34,000	5,000	S	20,000	D	6,000	13,000	18,000
Earth, atmospheric, and ocean sciences	69,000	44,000	S	6,000	29,000	D	5,000	11,000	13,000
Physics and astronomy	55,000	36,000	1,000	14,000	18,000	D	4,000	13,000	6,000
Other physical sciences	7,000	1,000	D	D	D	D	D	S	4,000
Social and related sciences	1,272,000	206,000	6,000	57,000	4,000	134,000	5,000	166,000	901,000
Economics	115,000	37,000	D	21,000	D	14,000	S	4,000	74,000
Political and related sciences	262,000	54,000	D	13,000	S	38,000	S	12,000	196,000
Psychology	656,000	65,000	D	10,000	D	53,000	D	126,000	465,000
Sociology and anthropology	96,000	24,000	*	4,000	D	20,000	D	9,000	63,000
Other social sciences	143,000	25,000	S	9,000	3,000	9,000	1,000	15,000	102,000
Engineering	1,068,000	659,000	13,000	168,000	9,000	D	469,000	223,000	187,000
Aerospace, aeronautical, and astronautical engineering	48,000	31,000	D	2,000	D	D	29,000	9,000	8,000
Chemical engineering	34,000	20,000	1,000	2,000	1,000	D	17,000	7,000	7,000
Civil and architectural engineering	134,000	83,000	D	2,000	D	D	80,000	24,000	27,000
Electrical and computer engineering	412,000	260,000	D	122,000	S	D	137,000	96,000	56,000

TABLE 1-2

Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2023

(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		
Industrial engineering	68,000	34,000	D	12,000	D	D	21,000	12,000	23,000
Mechanical engineering	174,000	110,000	D	10,000	D	D	96,000	36,000	28,000
Other engineering	200,000	122,000	9,000	17,000	5,000	D	90,000	39,000	39,000
S&E-related fields	2,375,000	208,000	50,000	98,000	6,000	26,000	29,000	1,565,000	601,000
Health	1,766,000	103,000	46,000	33,000	4,000	13,000	6,000	1,305,000	358,000
Science and mathematics teacher education	279,000	20,000	S	13,000	S	D	1,000	127,000	132,000
Technology and technical fields	117,000	61,000	D	46,000	D	D	13,000	31,000	25,000
Other S&E-related fields	213,000	25,000	D	S	D	11,000	9,000	102,000	86,000
Non-S&E fields	9,466,000	616,000	32,000	372,000	11,000	75,000	126,000	830,000	8,021,000
Management and administration fields	3,479,000	387,000	14,000	252,000	4,000	18,000	100,000	357,000	2,735,000
Education, except science and math teacher education	2,965,000	39,000	S	21,000	1,000	10,000	S	271,000	2,654,000
Social service and related fields	889,000	23,000	D	9,000	D	12,000	1,000	62,000	805,000
Sales and marketing fields	257,000	20,000	D	13,000	D	S	3,000	8,000	229,000
Art and humanities fields	735,000	38,000	D	26,000	S	7,000	3,000	49,000	648,000
Other non-S&E fields	1,141,000	108,000	11,000	51,000	5,000	26,000	14,000	83,000	950,000
Doctorate	2,420,000	973,000	264,000	207,000	123,000	198,000	181,000	562,000	885,000
S&E fields	1,349,000	849,000	229,000	187,000	120,000	139,000	174,000	250,000	249,000
Biological, agricultural, and environmental life sciences	392,000	235,000	200,000	15,000	9,000	3,000	8,000	85,000	72,000
Agricultural and food sciences	26,000	12,000	11,000	D	S	D	D	S	6,000
Biological sciences	356,000	215,000	187,000	14,000	6,000	S	S	77,000	64,000
Environmental life sciences	10,000	7,000	S	D	S	*	S	S	S
Computer and mathematical sciences	141,000	111,000	S	101,000	S	1,000	6,000	12,000	18,000
Computer and information sciences	83,000	64,000	S	56,000	S	S	4,000	9,000	11,000
Mathematics and statistics	58,000	47,000	D	45,000	D	D	2,000	3,000	8,000
Physical and related sciences	214,000	151,000	15,000	19,000	100,000	D	17,000	27,000	35,000
Chemistry, except biochemistry	95,000	61,000	12,000	4,000	42,000	D	3,000	13,000	22,000
Earth, atmospheric, and ocean sciences	35,000	29,000	S	S	24,000	D	S	2,000	4,000
Physics and astronomy	79,000	59,000	2,000	13,000	33,000	D	11,000	11,000	9,000
Other physical sciences	4,000	2,000	D	D	1,000	D	D	D	D
Social and related sciences	309,000	153,000	4,000	13,000	S	133,000	D	72,000	85,000
Economics	34,000	23,000	D	3,000	D	19,000	D	*	10,000
Political and related sciences	29,000	19,000	D	1,000	D	17,000	D	2,000	7,000
Psychology	164,000	64,000	S	4,000	D	58,000	D	66,000	34,000
Sociology and anthropology	39,000	29,000	D	S	D	26,000	D	1,000	10,000
Other social sciences	43,000	17,000	D	2,000	S	14,000	D	S	23,000

TABLE 1-2

Employed college graduates, by level of highest degree, minor field of highest degree, and major occupation: 2023

(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		
Engineering	293,000	200,000	8,000	39,000	9,000	S	142,000	55,000	39,000
Aerospace, aeronautical, and astronautical engineering	12,000	9,000	D	S	D	D	8,000	2,000	1,000
Chemical engineering	31,000	17,000	2,000	1,000	S	D	12,000	9,000	6,000
Civil and architectural engineering	27,000	22,000	D	S	D	D	20,000	2,000	3,000
Electrical and computer engineering	91,000	60,000	D	23,000	1,000	D	36,000	19,000	13,000
Industrial engineering	14,000	8,000	D	S	D	D	2,000	S	2,000
Mechanical engineering	43,000	32,000	S	2,000	*	D	28,000	6,000	6,000
Other engineering	76,000	53,000	5,000	6,000	5,000	D	37,000	15,000	8,000
S&E-related fields	372,000	54,000	29,000	8,000	3,000	11,000	S	264,000	54,000
Health	342,000	40,000	26,000	4,000	3,000	7,000	D	261,000	41,000
Science and mathematics teacher education	14,000	4,000	D	2,000	D	S	D	*	9,000
Technology and technical fields	9,000	5,000	D	S	D	D	S	S	S
Other S&E-related fields	7,000	4,000	D	D	D	S	D	D	2,000
Non-S&E fields	700,000	70,000	6,000	13,000	D	48,000	4,000	48,000	582,000
Management and administration fields	67,000	4,000	D	1,000	D	1,000	S	S	57,000
Education, except science and math teacher education	267,000	13,000	D	3,000	D	8,000	D	23,000	231,000
Social service and related fields	93,000	13,000	D	D	D	10,000	D	S	78,000
Sales and marketing fields	7,000	D	D	D	D	D	D	D	7,000
Art and humanities fields	184,000	8,000	D	4,000	D	S	D	S	167,000
Other non-S&E fields	82,000	32,000	4,000	S	D	27,000	D	S	43,000
Professional	3,461,000	70,000	23,000	21,000	S	24,000	D	1,714,000	1,677,000
S&E fields	62,000	13,000	D	D	D	12,000	D	28,000	20,000
S&E-related fields	1,765,000	22,000	21,000	D	D	D	D	1,652,000	91,000
Non-S&E fields	1,634,000	35,000	D	19,000	S	S	D	33,000	1,566,000

* = 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, 2023.

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: 2023

(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	56,061,000	30,129,000	15,217,000	10,715,000	8,711,000	5,462,000	2,344,000	905,000	11,253,000	8,202,000	1,951,000	1,100,000	36,097,000	16,464,000	10,922,000	8,710,000
S&E fields	17,566,000	8,661,000	5,255,000	3,649,000	6,518,000	4,515,000	1,600,000	403,000	2,955,000	1,761,000	866,000	327,000	8,093,000	2,385,000	2,788,000	2,919,000
Biological, agricultural, and environmental life sciences	2,721,000	1,309,000	789,000	623,000	755,000	532,000	174,000	49,000	760,000	460,000	216,000	84,000	1,206,000	317,000	399,000	491,000
Agricultural and food sciences	370,000	170,000	123,000	77,000	53,000	39,000	12,000	2,000	59,000	35,000	15,000	9,000	259,000	97,000	95,000	67,000
Biological sciences	2,012,000	1,012,000	552,000	448,000	625,000	445,000	140,000	40,000	651,000	402,000	185,000	64,000	736,000	165,000	227,000	344,000
Environmental life sciences	338,000	126,000	114,000	98,000	77,000	48,000	22,000	7,000	50,000	23,000	16,000	11,000	211,000	55,000	76,000	80,000
Computer and mathematical sciences	3,563,000	2,252,000	921,000	390,000	2,110,000	1,576,000	479,000	55,000	524,000	378,000	115,000	31,000	928,000	298,000	327,000	304,000
Computer and information sciences	2,781,000	1,867,000	663,000	251,000	1,811,000	1,394,000	380,000	38,000	407,000	292,000	90,000	25,000	562,000	181,000	194,000	188,000
Mathematics and statistics	782,000	385,000	258,000	140,000	299,000	182,000	99,000	17,000	117,000	86,000	26,000	6,000	366,000	117,000	133,000	116,000
Physical and related sciences	953,000	478,000	280,000	194,000	476,000	320,000	114,000	43,000	166,000	87,000	65,000	14,000	311,000	71,000	102,000	138,000
Chemistry, except biochemistry	370,000	201,000	109,000	59,000	182,000	129,000	43,000	10,000	73,000	40,000	27,000	5,000	115,000	31,000	39,000	44,000
Earth, atmospheric, and ocean sciences	301,000	154,000	68,000	79,000	142,000	106,000	23,000	13,000	42,000	22,000	15,000	5,000	116,000	26,000	30,000	61,000
Physics and astronomy	257,000	111,000	96,000	50,000	147,000	81,000	47,000	19,000	43,000	18,000	22,000	3,000	67,000	12,000	27,000	27,000
Other physical sciences	26,000	12,000	7,000	6,000	5,000	3,000	S	D	8,000	7,000	D	D	13,000	S	6,000	5,000
Social and related sciences	6,059,000	2,088,000	1,964,000	2,007,000	738,000	378,000	200,000	160,000	688,000	346,000	195,000	147,000	4,634,000	1,365,000	1,569,000	1,700,000
Economics	971,000	310,000	423,000	237,000	154,000	53,000	76,000	24,000	48,000	11,000	22,000	15,000	769,000	246,000	325,000	198,000
Political and related sciences	1,032,000	258,000	371,000	403,000	133,000	60,000	38,000	35,000	59,000	17,000	18,000	23,000	841,000	181,000	314,000	345,000
Psychology	2,511,000	1,096,000	718,000	697,000	246,000	158,000	42,000	46,000	424,000	260,000	97,000	67,000	1,841,000	678,000	580,000	583,000
Sociology and anthropology	948,000	226,000	285,000	438,000	116,000	65,000	18,000	33,000	81,000	23,000	30,000	28,000	751,000	137,000	236,000	377,000
Other social sciences	597,000	198,000	167,000	232,000	89,000	41,000	26,000	22,000	76,000	34,000	28,000	14,000	433,000	123,000	113,000	196,000
Engineering	4,270,000	2,534,000	1,301,000	435,000	2,438,000	1,708,000	634,000	96,000	818,000	491,000	276,000	52,000	1,014,000	335,000	391,000	287,000
Aerospace, aeronautical, and astronautical engineering	175,000	100,000	47,000	27,000	123,000	80,000	30,000	S	26,000	10,000	11,000	S	26,000	10,000	6,000	9,000
Chemical engineering	275,000	127,000	96,000	52,000	147,000	84,000	49,000	13,000	51,000	24,000	23,000	3,000	78,000	18,000	24,000	36,000
Civil and architectural engineering	553,000	377,000	126,000	50,000	302,000	247,000	47,000	8,000	91,000	67,000	21,000	4,000	161,000	64,000	58,000	39,000
Electrical and computer engineering	1,458,000	981,000	383,000	95,000	896,000	682,000	196,000	18,000	330,000	219,000	99,000	13,000	232,000	80,000	88,000	64,000
Industrial engineering	275,000	126,000	116,000	33,000	104,000	57,000	40,000	7,000	61,000	32,000	23,000	5,000	110,000	37,000	53,000	20,000
Mechanical engineering	916,000	484,000	337,000	95,000	553,000	350,000	182,000	21,000	139,000	71,000	60,000	7,000	224,000	62,000	95,000	67,000
Other engineering	617,000	339,000	195,000	82,000	314,000	209,000	89,000	16,000	120,000	67,000	39,000	14,000	183,000	63,000	67,000	52,000
S&E-related fields	8,556,000	6,675,000	1,096,000	786,000	534,000	347,000	140,000	47,000	6,204,000	5,573,000	489,000	142,000	1,818,000	755,000	467,000	596,000
Health	6,858,000	5,573,000	764,000	521,000	234,000	148,000	60,000	25,000	5,564,000	5,032,000	420,000	111,000	1,061,000	392,000	284,000	385,000
Science and mathematics teacher education	546,000	373,000	78,000	95,000	33,000	11,000	11,000	10,000	233,000	215,000	11,000	S	280,000	147,000	56,000	77,000
Technology and technical fields	563,000	316,000	151,000	95,000	216,000	152,000	57,000	7,000	126,000	77,000	32,000	18,000	220,000	87,000	62,000	71,000
Other S&E-related fields	589,000	414,000	102,000	74,000	52,000	36,000	10,000	5,000	281,000	249,000	26,000	S	257,000	129,000	65,000	63,000
Non-S&E fields	29,939,000	14,792,000	8,867,000	6,280,000	1,660,000	600,000	605,000	455,000	2,093,000	868,000	595,000	630,000	26,186,000	13,324,000	7,667,000	5,195,000
Management and administration fields	10,153,000	4,729,000	3,802,000	1,622,000	740,000	289,000	336,000	115,000	753,000	302,000	288,000	164,000	8,660,000	4,138,000	3,178,000	1,343,000

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: 2023

(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
Education, except science and math teacher education	5,245,000	3,587,000	939,000	718,000	77,000	39,000	20,000	17,000	402,000	253,000	78,000	71,000	4,766,000	3,295,000	841,000	630,000
Social service and related fields	1,526,000	900,000	284,000	342,000	81,000	23,000	11,000	47,000	84,000	48,000	15,000	21,000	1,360,000	829,000	258,000	274,000
Sales and marketing fields	1,448,000	559,000	619,000	270,000	81,000	15,000	55,000	12,000	91,000	11,000	28,000	52,000	1,276,000	534,000	536,000	206,000
Art and humanities fields	4,937,000	1,779,000	1,363,000	1,795,000	293,000	73,000	67,000	153,000	379,000	83,000	97,000	198,000	4,266,000	1,623,000	1,200,000	1,444,000
Other non-S&E fields	6,630,000	3,238,000	1,859,000	1,532,000	388,000	162,000	116,000	110,000	383,000	171,000	89,000	124,000	5,858,000	2,906,000	1,655,000	1,298,000
Bachelor's	34,400,000	14,994,000	10,686,000	8,719,000	5,069,000	2,858,000	1,503,000	708,000	5,881,000	3,750,000	1,275,000	856,000	23,449,000	8,386,000	7,908,000	7,155,000
S&E fields	12,216,000	5,039,000	3,999,000	3,178,000	3,881,000	2,492,000	1,068,000	321,000	1,975,000	1,048,000	650,000	277,000	6,360,000	1,500,000	2,281,000	2,580,000
Biological, agricultural, and environmental life sciences	1,912,000	760,000	612,000	539,000	367,000	223,000	105,000	39,000	562,000	312,000	177,000	73,000	982,000	225,000	330,000	427,000
Agricultural and food sciences	300,000	125,000	107,000	69,000	24,000	16,000	7,000	S	45,000	25,000	11,000	9,000	230,000	84,000	88,000	59,000
Biological sciences	1,368,000	563,000	420,000	384,000	300,000	185,000	84,000	32,000	482,000	273,000	156,000	54,000	586,000	106,000	181,000	299,000
Environmental life sciences	244,000	72,000	85,000	86,000	42,000	23,000	14,000	6,000	35,000	15,000	10,000	S	166,000	35,000	62,000	69,000
Computer and mathematical sciences	2,437,000	1,415,000	693,000	329,000	1,357,000	982,000	338,000	38,000	351,000	247,000	81,000	24,000	728,000	187,000	274,000	267,000
Computer and information sciences	1,904,000	1,202,000	489,000	213,000	1,202,000	905,000	271,000	26,000	269,000	191,000	59,000	18,000	432,000	106,000	158,000	169,000
Mathematics and statistics	533,000	213,000	204,000	116,000	155,000	77,000	67,000	12,000	82,000	56,000	22,000	5,000	295,000	81,000	116,000	99,000
Physical and related sciences	543,000	233,000	158,000	152,000	210,000	132,000	49,000	29,000	99,000	55,000	35,000	9,000	234,000	46,000	74,000	114,000
Chemistry, except biochemistry	210,000	104,000	63,000	43,000	87,000	62,000	19,000	S	46,000	27,000	18,000	2,000	76,000	15,000	26,000	35,000
Earth, atmospheric, and ocean sciences	197,000	89,000	41,000	67,000	69,000	49,000	12,000	8,000	29,000	19,000	6,000	5,000	99,000	S	23,000	55,000
Physics and astronomy	123,000	35,000	50,000	38,000	53,000	20,000	18,000	14,000	19,000	5,000	12,000	2,000	51,000	9,000	20,000	22,000
Other physical sciences	15,000	S	5,000	5,000	2,000	D	D	D	S	S	D	D	9,000	D	5,000	3,000
Social and related sciences	4,417,000	1,032,000	1,579,000	1,805,000	367,000	97,000	127,000	142,000	422,000	126,000	164,000	132,000	3,628,000	809,000	1,288,000	1,531,000
Economics	822,000	239,000	360,000	223,000	95,000	15,000	59,000	21,000	44,000	10,000	20,000	13,000	684,000	215,000	281,000	188,000
Political and related sciences	741,000	132,000	265,000	344,000	59,000	14,000	18,000	27,000	45,000	12,000	12,000	20,000	637,000	106,000	235,000	296,000
Psychology	1,629,000	416,000	597,000	617,000	104,000	34,000	29,000	41,000	204,000	64,000	80,000	60,000	1,321,000	318,000	487,000	516,000
Sociology and anthropology	813,000	153,000	242,000	418,000	63,000	22,000	8,000	33,000	72,000	16,000	29,000	26,000	678,000	115,000	205,000	359,000
Other social sciences	411,000	91,000	115,000	204,000	46,000	12,000	14,000	20,000	58,000	23,000	22,000	12,000	307,000	56,000	79,000	172,000
Engineering	2,908,000	1,600,000	956,000	352,000	1,579,000	1,058,000	449,000	73,000	540,000	309,000	193,000	39,000	788,000	233,000	315,000	240,000
Aerospace, aeronautical, and astronautical engineering	115,000	61,000	35,000	19,000	83,000	50,000	21,000	S	16,000	S	9,000	S	16,000	7,000	5,000	4,000
Chemical engineering	210,000	85,000	80,000	45,000	110,000	59,000	41,000	10,000	35,000	13,000	19,000	S	65,000	13,000	20,000	32,000
Civil and architectural engineering	393,000	255,000	94,000	44,000	197,000	156,000	35,000	S	65,000	46,000	15,000	3,000	131,000	52,000	45,000	34,000
Electrical and computer engineering	955,000	611,000	273,000	72,000	575,000	422,000	140,000	14,000	216,000	140,000	67,000	9,000	164,000	49,000	66,000	49,000
Industrial engineering	193,000	77,000	87,000	30,000	62,000	29,000	27,000	6,000	46,000	24,000	17,000	5,000	85,000	24,000	43,000	18,000
Mechanical engineering	700,000	350,000	269,000	81,000	412,000	254,000	141,000	17,000	97,000	47,000	46,000	S	191,000	50,000	81,000	60,000
Other engineering	341,000	160,000	119,000	62,000	139,000	88,000	43,000	8,000	66,000	35,000	20,000	10,000	136,000	37,000	55,000	44,000
S&E-related fields	4,045,000	2,798,000	700,000	547,000	250,000	125,000	91,000	34,000	2,724,000	2,336,000	301,000	86,000	1,071,000	336,000	308,000	427,000
Health	2,986,000	2,161,000	468,000	357,000	69,000	17,000	34,000	18,000	2,346,000	2,028,000	252,000	66,000	570,000	115,000	182,000	273,000

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: 2023

(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
Science and mathematics teacher education	253,000	162,000	38,000	53,000	9,000	D	S	S	S	S	S	D	139,000	63,000	31,000	45,000
Technology and technical fields	437,000	226,000	129,000	82,000	150,000	95,000	48,000	7,000	93,000	53,000	26,000	14,000	194,000	78,000	55,000	61,000
Other S&E-related fields	369,000	249,000	64,000	55,000	22,000	13,000	5,000	4,000	179,000	157,000	S	S	169,000	80,000	40,000	48,000
Non-S&E fields	18,138,000	7,157,000	5,988,000	4,994,000	939,000	241,000	344,000	353,000	1,182,000	365,000	324,000	493,000	16,018,000	6,551,000	5,319,000	4,149,000
Management and administration fields	6,607,000	2,826,000	2,502,000	1,279,000	349,000	103,000	169,000	76,000	391,000	149,000	124,000	118,000	5,868,000	2,574,000	2,208,000	1,085,000
Education, except science and math teacher education	2,013,000	1,225,000	368,000	420,000	24,000	S	10,000	11,000	107,000	34,000	24,000	49,000	1,881,000	1,188,000	333,000	360,000
Social service and related fields	544,000	178,000	129,000	236,000	45,000	D	S	37,000	20,000	10,000	2,000	8,000	478,000	167,000	121,000	191,000
Sales and marketing fields	1,185,000	427,000	522,000	235,000	61,000	S	44,000	9,000	83,000	S	S	52,000	1,040,000	413,000	454,000	174,000
Art and humanities fields	4,018,000	1,269,000	1,130,000	1,618,000	247,000	58,000	51,000	138,000	320,000	53,000	92,000	175,000	3,451,000	1,158,000	987,000	1,305,000
Other non-S&E fields	3,772,000	1,231,000	1,337,000	1,205,000	212,000	68,000	64,000	80,000	260,000	112,000	57,000	91,000	3,300,000	1,051,000	1,216,000	1,034,000
Master's	15,780,000	10,207,000	3,880,000	1,693,000	2,599,000	1,757,000	676,000	166,000	3,096,000	2,318,000	584,000	194,000	10,085,000	6,132,000	2,619,000	1,334,000
S&E fields	3,939,000	2,511,000	1,012,000	417,000	1,775,000	1,307,000	400,000	68,000	701,000	486,000	172,000	43,000	1,463,000	718,000	439,000	305,000
Biological, agricultural, and environmental life sciences	417,000	237,000	108,000	73,000	153,000	105,000	40,000	8,000	113,000	79,000	25,000	S	152,000	52,000	43,000	56,000
Agricultural and food sciences	45,000	26,000	13,000	5,000	16,000	12,000	4,000	D	6,000	3,000	S	D	22,000	12,000	6,000	5,000
Biological sciences	288,000	163,000	69,000	56,000	109,000	73,000	29,000	7,000	92,000	69,000	15,000	S	87,000	22,000	24,000	41,000
Environmental life sciences	84,000	47,000	26,000	11,000	28,000	20,000	7,000	1,000	14,000	8,000	6,000	D	43,000	19,000	13,000	10,000
Computer and mathematical sciences	985,000	725,000	202,000	59,000	642,000	505,000	121,000	15,000	161,000	122,000	32,000	8,000	182,000	98,000	49,000	36,000
Computer and information sciences	794,000	596,000	161,000	37,000	546,000	435,000	99,000	12,000	130,000	94,000	29,000	7,000	119,000	67,000	33,000	19,000
Mathematics and statistics	191,000	129,000	41,000	21,000	96,000	71,000	22,000	3,000	32,000	28,000	3,000	D	63,000	30,000	16,000	17,000
Physical and related sciences	196,000	102,000	66,000	28,000	115,000	76,000	31,000	9,000	39,000	17,000	19,000	S	41,000	9,000	16,000	16,000
Chemistry, except biochemistry	65,000	33,000	24,000	8,000	34,000	21,000	12,000	D	13,000	7,000	S	D	18,000	5,000	8,000	5,000
Earth, atmospheric, and ocean sciences	69,000	36,000	21,000	12,000	44,000	32,000	7,000	5,000	11,000	2,000	9,000	D	13,000	2,000	5,000	6,000
Physics and astronomy	55,000	29,000	20,000	6,000	36,000	22,000	11,000	S	13,000	S	6,000	D	6,000	D	2,000	4,000
Other physical sciences	7,000	4,000	S	D	1,000	1,000	D	D	S	S	D	D	4,000	D	S	D
Social and related sciences	1,272,000	743,000	345,000	184,000	206,000	134,000	56,000	16,000	166,000	128,000	24,000	14,000	901,000	481,000	265,000	155,000
Economics	115,000	43,000	57,000	14,000	37,000	19,000	15,000	3,000	4,000	S	1,000	D	74,000	23,000	41,000	10,000
Political and related sciences	262,000	106,000	100,000	56,000	54,000	30,000	17,000	7,000	12,000	S	6,000	S	196,000	72,000	77,000	48,000
Psychology	656,000	480,000	106,000	70,000	65,000	53,000	8,000	3,000	126,000	107,000	12,000	7,000	465,000	320,000	86,000	60,000
Sociology and anthropology	96,000	39,000	38,000	20,000	24,000	17,000	7,000	D	9,000	6,000	D	S	63,000	15,000	30,000	18,000
Other social sciences	143,000	74,000	45,000	24,000	25,000	14,000	10,000	S	15,000	9,000	4,000	2,000	102,000	51,000	31,000	20,000
Engineering	1,068,000	705,000	291,000	73,000	659,000	487,000	152,000	20,000	223,000	140,000	73,000	10,000	187,000	78,000	66,000	42,000
Aerospace, aeronautical, and astronautical engineering	48,000	30,000	11,000	6,000	31,000	21,000	9,000	1,000	9,000	6,000	S	D	8,000	3,000	S	S
Chemical engineering	34,000	19,000	9,000	6,000	20,000	12,000	5,000	S	7,000	5,000	S	D	7,000	S	2,000	3,000
Civil and architectural engineering	134,000	100,000	28,000	6,000	83,000	72,000	10,000	S	24,000	19,000	5,000	D	27,000	9,000	13,000	4,000
Electrical and computer engineering	412,000	296,000	93,000	22,000	260,000	210,000	46,000	5,000	96,000	63,000	29,000	S	56,000	22,000	19,000	14,000

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: 2023

(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	68,000	39,000	27,000	2,000	34,000	22,000	11,000	1,000	12,000	5,000	6,000	D	23,000	12,000	9,000	2,000
Mechanical engineering	174,000	100,000	61,000	13,000	110,000	70,000	36,000	4,000	36,000	20,000	13,000	2,000	28,000	9,000	12,000	7,000
Other engineering	200,000	122,000	61,000	17,000	122,000	79,000	35,000	7,000	39,000	21,000	16,000	S	39,000	21,000	10,000	7,000
S&E-related fields	2,375,000	1,881,000	320,000	173,000	208,000	157,000	40,000	11,000	1,565,000	1,381,000	150,000	34,000	601,000	343,000	130,000	128,000
Health	1,766,000	1,441,000	224,000	101,000	103,000	78,000	19,000	5,000	1,305,000	1,151,000	131,000	23,000	358,000	211,000	74,000	73,000
Science and mathematics teacher education	279,000	198,000	40,000	42,000	20,000	7,000	8,000	S	127,000	116,000	7,000	S	132,000	75,000	25,000	32,000
Technology and technical fields	117,000	82,000	21,000	13,000	61,000	52,000	9,000	D	31,000	22,000	5,000	D	25,000	9,000	7,000	10,000
Other S&E-related fields	213,000	160,000	35,000	17,000	25,000	20,000	4,000	1,000	102,000	92,000	7,000	D	86,000	48,000	25,000	13,000
Non-S&E fields	9,466,000	5,815,000	2,548,000	1,104,000	616,000	293,000	236,000	87,000	830,000	450,000	262,000	117,000	8,021,000	5,071,000	2,050,000	900,000
Management and administration fields	3,479,000	1,844,000	1,295,000	340,000	387,000	183,000	166,000	39,000	357,000	149,000	162,000	46,000	2,735,000	1,512,000	967,000	256,000
Education, except science and math teacher education	2,965,000	2,189,000	499,000	277,000	39,000	24,000	9,000	6,000	271,000	201,000	51,000	19,000	2,654,000	1,963,000	439,000	251,000
Social service and related fields	889,000	652,000	142,000	96,000	23,000	12,000	4,000	7,000	62,000	36,000	13,000	13,000	805,000	604,000	125,000	76,000
Sales and marketing fields	257,000	128,000	95,000	34,000	20,000	7,000	S	S	8,000	4,000	3,000	D	229,000	116,000	81,000	32,000
Art and humanities fields	735,000	371,000	205,000	159,000	38,000	9,000	15,000	14,000	49,000	21,000	5,000	23,000	648,000	341,000	186,000	121,000
Other non-S&E fields	1,141,000	632,000	312,000	197,000	108,000	59,000	32,000	18,000	83,000	39,000	28,000	15,000	950,000	534,000	252,000	164,000
Doctorate	2,420,000	1,892,000	403,000	126,000	973,000	811,000	143,000	20,000	562,000	477,000	66,000	19,000	885,000	604,000	194,000	87,000
S&E fields	1,349,000	1,056,000	242,000	51,000	849,000	705,000	131,000	14,000	250,000	199,000	44,000	7,000	249,000	152,000	68,000	30,000
Biological, agricultural, and environmental life sciences	392,000	312,000	69,000	11,000	235,000	204,000	29,000	2,000	85,000	68,000	15,000	2,000	72,000	40,000	25,000	7,000
Agricultural and food sciences	26,000	20,000	3,000	S	12,000	12,000	S	D	S	S	D	D	6,000	1,000	S	S
Biological sciences	356,000	286,000	63,000	7,000	215,000	187,000	26,000	2,000	77,000	61,000	15,000	2,000	64,000	38,000	22,000	4,000
Environmental life sciences	10,000	7,000	3,000	D	7,000	5,000	S	D	S	D	D	D	S	S	D	D
Computer and mathematical sciences	141,000	112,000	26,000	3,000	111,000	89,000	20,000	2,000	12,000	9,000	3,000	D	18,000	13,000	4,000	S
Computer and information sciences	83,000	69,000	13,000	*	64,000	54,000	9,000	D	9,000	7,000	S	D	11,000	8,000	2,000	D
Mathematics and statistics	58,000	42,000	13,000	3,000	47,000	35,000	10,000	2,000	3,000	2,000	S	D	8,000	5,000	2,000	D
Physical and related sciences	214,000	144,000	56,000	13,000	151,000	112,000	34,000	5,000	27,000	16,000	11,000	S	35,000	16,000	12,000	7,000
Chemistry, except biochemistry	95,000	64,000	23,000	8,000	61,000	47,000	12,000	2,000	13,000	6,000	6,000	D	22,000	11,000	5,000	5,000
Earth, atmospheric, and ocean sciences	35,000	29,000	6,000	D	29,000	25,000	4,000	D	2,000	S	S	D	4,000	3,000	S	D
Physics and astronomy	79,000	48,000	26,000	5,000	59,000	39,000	17,000	3,000	11,000	6,000	4,000	*	9,000	2,000	5,000	2,000
Other physical sciences	4,000	4,000	D	D	2,000	2,000	D	D	D	D	D	D	D	D	D	D
Social and related sciences	309,000	258,000	37,000	13,000	153,000	135,000	15,000	2,000	72,000	64,000	6,000	D	85,000	59,000	16,000	10,000
Economics	34,000	28,000	6,000	D	23,000	20,000	3,000	D	*	D	D	D	10,000	8,000	3,000	D
Political and related sciences	29,000	20,000	6,000	3,000	19,000	15,000	3,000	D	2,000	D	D	D	7,000	4,000	2,000	D
Psychology	164,000	145,000	14,000	5,000	64,000	60,000	3,000	D	66,000	61,000	S	D	34,000	24,000	6,000	4,000
Sociology and anthropology	39,000	34,000	5,000	S	29,000	26,000	S	D	1,000	*	D	D	10,000	7,000	1,000	D
Other social sciences	43,000	32,000	7,000	4,000	17,000	15,000	S	D	S	D	D	D	23,000	16,000	S	S

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: 2023

(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
Engineering	293,000	229,000	54,000	10,000	200,000	163,000	34,000	3,000	55,000	42,000	10,000	3,000	39,000	23,000	10,000	5,000
Aerospace, aeronautical, and astronautical engineering	12,000	10,000	S	D	9,000	8,000	D	D	2,000	S	D	D	1,000	D	D	D
Chemical engineering	31,000	22,000	8,000	2,000	17,000	13,000	3,000	D	9,000	6,000	S	D	6,000	S	3,000	S
Civil and architectural engineering	27,000	22,000	4,000	D	22,000	19,000	3,000	D	2,000	1,000	*	D	3,000	2,000	S	D
Electrical and computer engineering	91,000	73,000	17,000	S	60,000	49,000	10,000	D	19,000	15,000	3,000	D	13,000	8,000	3,000	D
Industrial engineering	14,000	11,000	2,000	D	8,000	S	2,000	D	S	S	D	D	2,000	S	D	D
Mechanical engineering	43,000	34,000	7,000	2,000	32,000	26,000	5,000	D	6,000	4,000	S	D	6,000	3,000	2,000	D
Other engineering	76,000	57,000	15,000	4,000	53,000	42,000	10,000	S	15,000	10,000	3,000	S	8,000	5,000	2,000	S
S&E-related fields	372,000	325,000	34,000	12,000	54,000	46,000	6,000	D	264,000	243,000	17,000	S	54,000	36,000	11,000	7,000
Health	342,000	301,000	31,000	10,000	40,000	34,000	5,000	D	261,000	241,000	16,000	S	41,000	25,000	10,000	6,000
Science and mathematics teacher education	14,000	13,000	*	D	4,000	4,000	D	D	*	*	D	D	9,000	9,000	D	D
Technology and technical fields	9,000	8,000	1,000	D	5,000	5,000	*	D	S	S	D	D	S	S	D	D
Other S&E-related fields	7,000	4,000	D	D	4,000	3,000	D	D	D	D	D	D	2,000	S	D	D
Non-S&E fields	700,000	511,000	126,000	63,000	70,000	60,000	6,000	S	48,000	34,000	4,000	S	582,000	417,000	116,000	50,000
Management and administration fields	67,000	59,000	5,000	3,000	4,000	4,000	D	D	S	S	D	D	57,000	52,000	S	3,000
Education, except science and math teacher education	267,000	174,000	72,000	21,000	13,000	12,000	S	D	23,000	18,000	3,000	D	231,000	144,000	68,000	19,000
Social service and related fields	93,000	70,000	13,000	10,000	13,000	10,000	D	D	S	D	D	D	78,000	58,000	13,000	S
Sales and marketing fields	7,000	S	D	D	D	D	D	D	D	D	D	D	7,000	S	D	D
Art and humanities fields	184,000	138,000	28,000	18,000	8,000	6,000	D	D	S	S	D	D	167,000	123,000	26,000	17,000
Other non-S&E fields	82,000	65,000	6,000	S	32,000	29,000	2,000	D	S	S	D	D	43,000	35,000	4,000	4,000
Professional	3,461,000	3,036,000	248,000	177,000	70,000	36,000	22,000	12,000	1,714,000	1,658,000	25,000	30,000	1,677,000	1,342,000	200,000	134,000
S&E fields	62,000	56,000	2,000	S	13,000	12,000	D	D	28,000	28,000	D	D	20,000	16,000	D	S
S&E-related fields	1,765,000	1,671,000	41,000	53,000	22,000	18,000	2,000	D	1,652,000	1,612,000	22,000	19,000	91,000	41,000	17,000	34,000
Non-S&E fields	1,634,000	1,310,000	205,000	119,000	35,000	6,000	18,000	11,000	33,000	S	3,000	11,000	1,566,000	1,286,000	183,000	97,000

* = 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, 2023.

TABLE 1-4

Employment sector of employed college graduates, by level of highest degree and minor field of highest degree: 2023

(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[a]	2-year college or precollege educational institution	Total	Federal government[b]	State or local government
All degrees	56,061,000	39,308,000	30,562,000	5,563,000	3,182,000	10,688,000	3,569,000	7,119,000	6,065,000	2,308,000	3,757,000
S&E fields	17,566,000	13,141,000	11,031,000	1,235,000	875,000	2,328,000	1,340,000	988,000	2,097,000	928,000	1,169,000
Biological, agricultural, and environmental life sciences	2,721,000	1,843,000	1,367,000	288,000	187,000	521,000	371,000	150,000	357,000	141,000	216,000
Agricultural and food sciences	370,000	291,000	209,000	13,000	69,000	45,000	22,000	23,000	34,000	23,000	11,000
Biological sciences	2,012,000	1,317,000	1,000,000	233,000	84,000	449,000	332,000	116,000	247,000	87,000	160,000
Environmental life sciences	338,000	234,000	159,000	42,000	34,000	27,000	17,000	S	76,000	32,000	44,000
Computer and mathematical sciences	3,563,000	2,867,000	2,632,000	141,000	94,000	369,000	194,000	175,000	327,000	168,000	159,000
Computer and information sciences	2,781,000	2,340,000	2,164,000	116,000	60,000	188,000	111,000	78,000	252,000	130,000	123,000
Mathematics and statistics	782,000	527,000	468,000	25,000	34,000	181,000	83,000	97,000	75,000	38,000	37,000
Physical and related sciences	953,000	621,000	525,000	56,000	40,000	206,000	154,000	52,000	125,000	70,000	55,000
Chemistry, except biochemistry	370,000	256,000	225,000	20,000	12,000	78,000	60,000	18,000	36,000	15,000	20,000
Earth, atmospheric, and ocean sciences	301,000	199,000	153,000	24,000	23,000	44,000	36,000	7,000	58,000	32,000	26,000
Physics and astronomy	257,000	151,000	137,000	8,000	5,000	83,000	56,000	26,000	23,000	19,000	4,000
Other physical sciences	26,000	15,000	10,000	S	D	2,000	1,000	1,000	9,000	4,000	5,000
Social and related sciences	6,059,000	4,182,000	3,129,000	633,000	420,000	988,000	432,000	556,000	889,000	325,000	564,000
Economics	971,000	824,000	731,000	43,000	51,000	72,000	41,000	30,000	75,000	38,000	37,000
Political and related sciences	1,032,000	747,000	579,000	113,000	55,000	98,000	48,000	50,000	188,000	125,000	62,000
Psychology	2,511,000	1,642,000	1,110,000	321,000	211,000	495,000	187,000	308,000	374,000	91,000	283,000
Sociology and anthropology	948,000	596,000	460,000	77,000	59,000	185,000	88,000	97,000	168,000	45,000	122,000
Other social sciences	597,000	375,000	250,000	80,000	45,000	138,000	68,000	71,000	84,000	25,000	59,000
Engineering	4,270,000	3,628,000	3,378,000	116,000	134,000	243,000	190,000	53,000	399,000	224,000	175,000
Aerospace, aeronautical, and astronautical engineering	175,000	120,000	113,000	4,000	4,000	9,000	8,000	S	46,000	S	S
Chemical engineering	275,000	242,000	225,000	10,000	7,000	19,000	15,000	S	14,000	9,000	5,000
Civil and architectural engineering	553,000	418,000	393,000	6,000	19,000	26,000	23,000	3,000	109,000	30,000	79,000
Electrical and computer engineering	1,458,000	1,300,000	1,210,000	59,000	31,000	71,000	57,000	14,000	88,000	61,000	27,000
Industrial engineering	275,000	246,000	228,000	6,000	12,000	13,000	5,000	7,000	16,000	9,000	S
Mechanical engineering	916,000	803,000	757,000	13,000	33,000	42,000	32,000	9,000	72,000	44,000	28,000
Other engineering	617,000	498,000	453,000	18,000	27,000	64,000	50,000	14,000	55,000	29,000	26,000
S&E-related fields	8,556,000	6,267,000	4,010,000	1,850,000	407,000	1,597,000	867,000	730,000	692,000	258,000	434,000
Health	6,858,000	5,117,000	3,037,000	1,793,000	287,000	1,149,000	805,000	344,000	593,000	238,000	354,000
Science and mathematics teacher education	546,000	166,000	124,000	15,000	27,000	372,000	25,000	347,000	8,000	S	S
Technology and technical fields	563,000	489,000	433,000	13,000	S	35,000	12,000	24,000	38,000	12,000	26,000
Other S&E-related fields	589,000	495,000	416,000	29,000	50,000	40,000	26,000	15,000	54,000	6,000	47,000
Non-S&E fields	29,939,000	19,900,000	15,521,000	2,479,000	1,901,000	6,763,000	1,362,000	5,401,000	3,276,000	1,122,000	2,154,000
Management and administration fields	10,153,000	8,455,000	7,143,000	762,000	550,000	631,000	306,000	325,000	1,067,000	467,000	599,000

TABLE 1-4

Employment sector of employed college graduates, by level of highest degree and minor field of highest degree: 2023

(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[a]	2-year college or precollege educational institution	Total	Federal government[b]	State or local government
Education, except science and math teacher education	5,245,000	1,191,000	763,000	303,000	125,000	3,845,000	249,000	3,596,000	208,000	50,000	158,000
Social service and related fields	1,526,000	1,003,000	453,000	449,000	101,000	288,000	89,000	199,000	236,000	35,000	200,000
Sales and marketing fields	1,448,000	1,283,000	1,163,000	55,000	65,000	56,000	18,000	38,000	109,000	S	49,000
Art and humanities fields	4,937,000	3,463,000	2,472,000	441,000	549,000	1,220,000	365,000	855,000	255,000	102,000	153,000
Other non-S&E fields	6,630,000	4,506,000	3,526,000	468,000	512,000	723,000	335,000	388,000	1,401,000	407,000	994,000
Bachelor's	34,400,000	25,967,000	20,861,000	3,031,000	2,076,000	4,739,000	1,315,000	3,425,000	3,693,000	1,243,000	2,450,000
S&E fields	12,216,000	9,598,000	8,119,000	836,000	643,000	1,161,000	508,000	652,000	1,458,000	558,000	900,000
Biological, agricultural, and environmental life sciences	1,912,000	1,409,000	1,036,000	213,000	161,000	258,000	151,000	107,000	245,000	85,000	160,000
Agricultural and food sciences	300,000	247,000	172,000	8,000	67,000	29,000	8,000	21,000	24,000	18,000	6,000
Biological sciences	1,368,000	980,000	743,000	176,000	62,000	213,000	136,000	77,000	175,000	48,000	126,000
Environmental life sciences	244,000	182,000	121,000	28,000	32,000	16,000	7,000	S	46,000	19,000	27,000
Computer and mathematical sciences	2,437,000	2,006,000	1,830,000	98,000	78,000	196,000	81,000	115,000	235,000	107,000	128,000
Computer and information sciences	1,904,000	1,617,000	1,490,000	79,000	47,000	103,000	45,000	58,000	184,000	83,000	101,000
Mathematics and statistics	533,000	389,000	340,000	19,000	31,000	92,000	36,000	57,000	51,000	25,000	S
Physical and related sciences	543,000	384,000	315,000	39,000	30,000	84,000	51,000	33,000	75,000	33,000	43,000
Chemistry, except biochemistry	210,000	150,000	130,000	13,000	7,000	35,000	27,000	8,000	24,000	7,000	17,000
Earth, atmospheric, and ocean sciences	197,000	148,000	110,000	S	S	11,000	7,000	S	38,000	19,000	19,000
Physics and astronomy	123,000	76,000	67,000	4,000	4,000	38,000	16,000	21,000	9,000	7,000	3,000
Other physical sciences	15,000	10,000	8,000	D	D	*	*	D	S	D	S
Social and related sciences	4,417,000	3,245,000	2,569,000	408,000	269,000	534,000	173,000	361,000	637,000	195,000	442,000
Economics	822,000	724,000	651,000	30,000	43,000	44,000	16,000	28,000	54,000	27,000	27,000
Political and related sciences	741,000	591,000	472,000	76,000	43,000	51,000	17,000	34,000	99,000	60,000	39,000
Psychology	1,629,000	1,115,000	825,000	197,000	93,000	241,000	74,000	167,000	274,000	55,000	219,000
Sociology and anthropology	813,000	545,000	428,000	64,000	54,000	121,000	40,000	82,000	146,000	41,000	105,000
Other social sciences	411,000	270,000	193,000	41,000	37,000	77,000	26,000	51,000	64,000	13,000	51,000
Engineering	2,908,000	2,554,000	2,370,000	79,000	105,000	88,000	53,000	36,000	266,000	138,000	128,000
Aerospace, aeronautical, and astronautical engineering	115,000	82,000	79,000	D	D	1,000	1,000	D	S	S	D
Chemical engineering	210,000	191,000	178,000	9,000	4,000	7,000	4,000	S	12,000	8,000	5,000
Civil and architectural engineering	393,000	306,000	287,000	3,000	16,000	9,000	S	3,000	78,000	21,000	57,000
Electrical and computer engineering	955,000	868,000	799,000	45,000	25,000	31,000	22,000	8,000	56,000	35,000	22,000
Industrial engineering	193,000	180,000	165,000	3,000	12,000	7,000	D	7,000	6,000	4,000	S
Mechanical engineering	700,000	630,000	592,000	9,000	29,000	13,000	5,000	8,000	56,000	32,000	24,000
Other engineering	341,000	296,000	270,000	9,000	17,000	20,000	13,000	S	25,000	9,000	16,000
S&E-related fields	4,045,000	3,107,000	2,065,000	877,000	165,000	614,000	297,000	317,000	324,000	97,000	227,000
Health	2,986,000	2,305,000	1,389,000	846,000	70,000	416,000	278,000	139,000	264,000	87,000	177,000

TABLE 1-4

Employment sector of employed college graduates, by level of highest degree and minor field of highest degree: 2023

(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[a]	2-year college or precollege educational institution	Total	Federal government[b]	State or local government
Science and mathematics teacher education	253,000	101,000	79,000	S	S	S	D	S	S	D	D
Technology and technical fields	437,000	380,000	330,000	10,000	S	26,000	S	22,000	31,000	8,000	23,000
Other S&E-related fields	369,000	321,000	267,000	13,000	41,000	22,000	12,000	11,000	26,000	2,000	24,000
Non-S&E fields	18,138,000	13,263,000	10,677,000	1,317,000	1,268,000	2,965,000	509,000	2,456,000	1,911,000	588,000	1,323,000
Management and administration fields	6,607,000	5,543,000	4,720,000	464,000	359,000	384,000	158,000	226,000	681,000	262,000	418,000
Education, except science and math teacher education	2,013,000	593,000	428,000	107,000	58,000	1,304,000	35,000	1,268,000	116,000	22,000	93,000
Social service and related fields	544,000	347,000	212,000	108,000	27,000	92,000	24,000	68,000	105,000	S	100,000
Sales and marketing fields	1,185,000	1,054,000	954,000	46,000	54,000	34,000	D	30,000	97,000	S	45,000
Art and humanities fields	4,018,000	3,060,000	2,261,000	317,000	482,000	743,000	147,000	597,000	215,000	77,000	138,000
Other non-S&E fields	3,772,000	2,666,000	2,103,000	274,000	288,000	408,000	141,000	267,000	699,000	170,000	529,000
Master's	15,780,000	9,593,000	7,091,000	1,789,000	713,000	4,457,000	1,059,000	3,398,000	1,730,000	730,000	1,000,000
S&E fields	3,939,000	2,798,000	2,329,000	303,000	166,000	629,000	344,000	285,000	512,000	273,000	239,000
Biological, agricultural, and environmental life sciences	417,000	245,000	178,000	48,000	19,000	96,000	63,000	34,000	76,000	29,000	47,000
Agricultural and food sciences	45,000	28,000	23,000	S	S	8,000	7,000	1,000	9,000	4,000	S
Biological sciences	288,000	167,000	121,000	31,000	16,000	82,000	51,000	30,000	39,000	14,000	26,000
Environmental life sciences	84,000	50,000	35,000	13,000	S	6,000	5,000	S	28,000	12,000	16,000
Computer and mathematical sciences	985,000	779,000	724,000	40,000	14,000	118,000	60,000	59,000	88,000	57,000	31,000
Computer and information sciences	794,000	668,000	621,000	36,000	12,000	59,000	40,000	19,000	67,000	45,000	21,000
Mathematics and statistics	191,000	110,000	103,000	4,000	S	59,000	20,000	39,000	22,000	12,000	10,000
Physical and related sciences	196,000	119,000	108,000	6,000	5,000	51,000	37,000	14,000	26,000	16,000	10,000
Chemistry, except biochemistry	65,000	45,000	42,000	S	S	16,000	10,000	6,000	4,000	2,000	S
Earth, atmospheric, and ocean sciences	69,000	41,000	35,000	S	4,000	15,000	12,000	S	13,000	7,000	6,000
Physics and astronomy	55,000	32,000	30,000	1,000	D	19,000	15,000	4,000	4,000	4,000	D
Other physical sciences	7,000	2,000	2,000	D	D	1,000	D	1,000	4,000	D	D
Social and related sciences	1,272,000	777,000	487,000	183,000	107,000	285,000	121,000	164,000	210,000	100,000	110,000
Economics	115,000	84,000	67,000	11,000	7,000	14,000	12,000	2,000	17,000	8,000	S
Political and related sciences	262,000	148,000	104,000	32,000	11,000	31,000	17,000	14,000	84,000	63,000	21,000
Psychology	656,000	413,000	235,000	101,000	77,000	171,000	51,000	120,000	71,000	15,000	56,000
Sociology and anthropology	96,000	40,000	28,000	8,000	S	36,000	24,000	12,000	20,000	4,000	16,000
Other social sciences	143,000	92,000	53,000	31,000	7,000	33,000	17,000	17,000	18,000	10,000	8,000
Engineering	1,068,000	878,000	832,000	26,000	20,000	78,000	64,000	15,000	112,000	70,000	42,000
Aerospace, aeronautical, and astronautical engineering	48,000	32,000	27,000	3,000	D	S	S	D	12,000	11,000	D
Chemical engineering	34,000	29,000	27,000	S	S	5,000	3,000	D	S	D	D
Civil and architectural engineering	134,000	101,000	96,000	S	3,000	5,000	5,000	D	27,000	8,000	19,000
Electrical and computer engineering	412,000	361,000	347,000	10,000	4,000	21,000	16,000	5,000	29,000	24,000	5,000

TABLE 1-4

Employment sector of employed college graduates, by level of highest degree and minor field of highest degree: 2023

(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[a]	2-year college or precollege educational institution	Total	Federal government[b]	State or local government
Industrial engineering	68,000	57,000	55,000	2,000	1,000	3,000	2,000	D	9,000	S	S
Mechanical engineering	174,000	147,000	143,000	3,000	2,000	15,000	14,000	D	12,000	8,000	3,000
Other engineering	200,000	151,000	138,000	5,000	8,000	26,000	21,000	6,000	23,000	15,000	8,000
S&E-related fields	2,375,000	1,557,000	977,000	475,000	105,000	576,000	195,000	381,000	241,000	85,000	157,000
Health	1,766,000	1,219,000	688,000	450,000	81,000	344,000	167,000	177,000	203,000	75,000	128,000
Science and mathematics teacher education	279,000	64,000	45,000	S	13,000	211,000	11,000	200,000	S	S	S
Technology and technical fields	117,000	103,000	97,000	3,000	S	7,000	5,000	2,000	6,000	S	S
Other S&E-related fields	213,000	171,000	147,000	16,000	8,000	14,000	12,000	S	27,000	4,000	23,000
Non-S&E fields	9,466,000	5,237,000	3,785,000	1,011,000	442,000	3,253,000	520,000	2,732,000	976,000	372,000	604,000
Management and administration fields	3,479,000	2,885,000	2,407,000	291,000	187,000	211,000	113,000	97,000	383,000	204,000	179,000
Education, except science and math teacher education	2,965,000	551,000	318,000	169,000	64,000	2,329,000	149,000	2,181,000	85,000	25,000	60,000
Social service and related fields	889,000	607,000	233,000	308,000	66,000	157,000	32,000	125,000	125,000	25,000	100,000
Sales and marketing fields	257,000	227,000	209,000	8,000	11,000	18,000	S	9,000	S	D	S
Art and humanities fields	735,000	369,000	192,000	116,000	61,000	331,000	107,000	224,000	36,000	22,000	14,000
Other non-S&E fields	1,141,000	598,000	426,000	119,000	54,000	207,000	110,000	97,000	336,000	88,000	248,000
Doctorate	2,420,000	1,116,000	786,000	237,000	94,000	1,121,000	864,000	257,000	183,000	122,000	61,000
S&E fields	1,349,000	705,000	565,000	87,000	54,000	522,000	482,000	40,000	121,000	94,000	27,000
Biological, agricultural, and environmental life sciences	392,000	189,000	154,000	28,000	7,000	167,000	157,000	10,000	36,000	27,000	9,000
Agricultural and food sciences	26,000	16,000	14,000	D	S	8,000	7,000	S	2,000	1,000	D
Biological sciences	356,000	170,000	136,000	27,000	7,000	154,000	145,000	9,000	32,000	25,000	8,000
Environmental life sciences	10,000	3,000	3,000	D	D	5,000	5,000	D	2,000	S	D
Computer and mathematical sciences	141,000	82,000	78,000	2,000	2,000	55,000	53,000	2,000	4,000	4,000	S
Computer and information sciences	83,000	55,000	53,000	1,000	S	26,000	26,000	D	2,000	S	D
Mathematics and statistics	58,000	27,000	25,000	1,000	D	29,000	27,000	1,000	2,000	2,000	D
Physical and related sciences	214,000	118,000	102,000	12,000	4,000	72,000	67,000	5,000	24,000	21,000	3,000
Chemistry, except biochemistry	95,000	61,000	54,000	4,000	S	27,000	23,000	3,000	7,000	7,000	S
Earth, atmospheric, and ocean sciences	35,000	11,000	8,000	S	D	18,000	17,000	D	7,000	6,000	S
Physics and astronomy	79,000	43,000	39,000	4,000	S	27,000	25,000	S	9,000	8,000	S
Other physical sciences	4,000	3,000	1,000	D	D	S	S	D	D	D	D
Social and related sciences	309,000	121,000	55,000	34,000	31,000	153,000	132,000	21,000	35,000	26,000	9,000
Economics	34,000	15,000	13,000	1,000	1,000	14,000	13,000	1,000	5,000	3,000	1,000
Political and related sciences	29,000	8,000	2,000	4,000	D	16,000	14,000	2,000	5,000	3,000	S
Psychology	164,000	75,000	32,000	15,000	27,000	66,000	55,000	11,000	23,000	18,000	5,000
Sociology and anthropology	39,000	10,000	4,000	5,000	1,000	28,000	25,000	S	1,000	1,000	D
Other social sciences	43,000	13,000	4,000	8,000	D	28,000	25,000	3,000	2,000	S	D

TABLE 1-4

Employment sector of employed college graduates, by level of highest degree and minor field of highest degree: 2023

(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[a]	2-year college or precollege educational institution	Total	Federal government[b]	State or local government
Engineering	293,000	195,000	176,000	11,000	9,000	76,000	73,000	3,000	21,000	16,000	6,000
Aerospace, aeronautical, and astronautical engineering	12,000	6,000	6,000	D	D	4,000	3,000	D	2,000	2,000	D
Chemical engineering	31,000	23,000	20,000	D	S	7,000	7,000	D	S	D	D
Civil and architectural engineering	27,000	11,000	10,000	D	D	12,000	12,000	D	4,000	1,000	3,000
Electrical and computer engineering	91,000	70,000	64,000	4,000	S	19,000	18,000	D	2,000	2,000	*
Industrial engineering	14,000	9,000	8,000	D	D	3,000	3,000	D	1,000	D	D
Mechanical engineering	43,000	26,000	23,000	D	D	13,000	13,000	D	4,000	4,000	D
Other engineering	76,000	51,000	45,000	4,000	2,000	18,000	16,000	S	7,000	5,000	S
S&E-related fields	372,000	233,000	146,000	68,000	18,000	109,000	88,000	21,000	30,000	12,000	18,000
Health	342,000	222,000	138,000	66,000	18,000	90,000	73,000	17,000	29,000	12,000	17,000
Science and mathematics teacher education	14,000	D	D	D	D	12,000	10,000	S	D	D	D
Technology and technical fields	9,000	6,000	6,000	D	D	3,000	3,000	D	D	D	D
Other S&E-related fields	7,000	3,000	S	D	D	4,000	2,000	D	D	D	D
Non-S&E fields	700,000	178,000	75,000	82,000	21,000	490,000	294,000	195,000	32,000	16,000	16,000
Management and administration fields	67,000	28,000	17,000	S	D	37,000	35,000	2,000	S	S	D
Education, except science and math teacher education	267,000	47,000	18,000	27,000	2,000	212,000	65,000	147,000	8,000	2,000	S
Social service and related fields	93,000	49,000	8,000	32,000	8,000	38,000	33,000	5,000	S	D	D
Sales and marketing fields	7,000	D	D	D	D	S	S	D	D	D	D
Art and humanities fields	184,000	34,000	19,000	9,000	6,000	146,000	111,000	35,000	S	D	D
Other non-S&E fields	82,000	20,000	13,000	6,000	D	52,000	46,000	S	10,000	3,000	S
Professional	3,461,000	2,631,000	1,824,000	507,000	300,000	370,000	331,000	39,000	459,000	214,000	245,000
S&E fields	62,000	39,000	18,000	8,000	13,000	17,000	6,000	S	6,000	S	3,000
S&E-related fields	1,765,000	1,370,000	822,000	430,000	118,000	298,000	287,000	11,000	97,000	65,000	32,000
Non-S&E fields	1,634,000	1,222,000	984,000	69,000	169,000	56,000	38,000	18,000	357,000	146,000	210,000

* = 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.

[a] Four-year educational institution includes medical schools and university-affiliated research institutes.
[b] Federal government includes civilian and military.

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, 2023.

TABLE 1-5

Employed scientists and engineers, by sex assigned at birth, gender identity, major field of highest degree, ethnicity, race, disability status, and type of disability: 2023

(Number)

Sex assigned at birth, gender identity,[a] 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
All sexes and gender identities	8,711,000	851,000	12,000	1,771,000	487,000	7,000	5,353,000	230,000	7,760,000	951,000	273,000	331,000	76,000	90,000	430,000
S&E fields	6,518,000	613,000	8,000	1,456,000	328,000	6,000	3,937,000	171,000	5,844,000	674,000	195,000	245,000	46,000	57,000	305,000
Biological, agricultural, and environmental life sciences	755,000	73,000	1,000	139,000	30,000	D	496,000	16,000	669,000	85,000	29,000	27,000	6,000	7,000	35,000
Computer and mathematical sciences	2,110,000	188,000	S	590,000	144,000	D	1,119,000	67,000	1,911,000	199,000	63,000	70,000	17,000	22,000	89,000
Physical and related sciences	476,000	40,000	D	71,000	16,000	D	337,000	9,000	410,000	66,000	19,000	32,000	1,000	2,000	28,000
Social and related sciences	738,000	89,000	S	71,000	47,000	D	510,000	19,000	629,000	109,000	17,000	27,000	7,000	11,000	65,000
Engineering	2,438,000	224,000	2,000	585,000	91,000	S	1,474,000	60,000	2,224,000	215,000	66,000	90,000	15,000	14,000	88,000
S&E-related fields	534,000	40,000	D	109,000	40,000	D	325,000	17,000	455,000	79,000	13,000	22,000	9,000	9,000	42,000
Non-S&E fields	1,660,000	198,000	S	207,000	120,000	D	1,092,000	41,000	1,461,000	198,000	65,000	63,000	20,000	25,000	83,000
Female at birth	2,586,000	251,000	7,000	577,000	175,000	S	1,513,000	63,000	2,262,000	323,000	74,000	110,000	25,000	43,000	162,000
S&E fields	1,746,000	166,000	5,000	448,000	101,000	*	981,000	44,000	1,548,000	198,000	42,000	73,000	15,000	26,000	100,000
Biological, agricultural, and environmental life sciences	381,000	31,000	D	81,000	19,000	D	242,000	9,000	344,000	37,000	13,000	9,000	4,000	4,000	20,000
Computer and mathematical sciences	465,000	35,000	D	185,000	41,000	D	191,000	12,000	428,000	37,000	10,000	16,000	S	8,000	16,000
Physical and related sciences	133,000	9,000	D	20,000	4,000	D	97,000	3,000	115,000	18,000	2,000	8,000	S	1,000	9,000
Social and related sciences	366,000	51,000	S	47,000	26,000	D	232,000	8,000	303,000	63,000	11,000	15,000	5,000	8,000	37,000
Engineering	401,000	40,000	D	116,000	12,000	D	220,000	12,000	359,000	43,000	7,000	24,000	4,000	5,000	17,000
S&E-related fields	217,000	10,000	D	37,000	19,000	D	143,000	S	180,000	S	4,000	6,000	D	S	S
Non-S&E fields	623,000	74,000	D	92,000	54,000	D	389,000	12,000	535,000	88,000	27,000	31,000	10,000	14,000	36,000
Male at birth	6,126,000	600,000	6,000	1,194,000	313,000	6,000	3,841,000	167,000	5,498,000	628,000	199,000	220,000	51,000	47,000	267,000
S&E fields	4,772,000	447,000	3,000	1,008,000	227,000	5,000	2,956,000	127,000	4,296,000	476,000	152,000	173,000	32,000	31,000	205,000
Biological, agricultural, and environmental life sciences	374,000	42,000	*	58,000	11,000	D	255,000	8,000	326,000	48,000	17,000	17,000	2,000	S	16,000
Computer and mathematical sciences	1,646,000	152,000	D	405,000	103,000	D	928,000	55,000	1,484,000	162,000	53,000	54,000	15,000	14,000	73,000
Physical and related sciences	343,000	30,000	D	51,000	12,000	D	241,000	7,000	295,000	48,000	17,000	24,000	S	1,000	19,000
Social and related sciences	372,000	38,000	D	24,000	21,000	D	278,000	10,000	327,000	46,000	6,000	12,000	S	3,000	27,000
Engineering	2,037,000	184,000	1,000	469,000	79,000	S	1,254,000	47,000	1,865,000	172,000	60,000	66,000	12,000	10,000	70,000
S&E-related fields	317,000	30,000	D	72,000	21,000	D	182,000	10,000	275,000	42,000	9,000	15,000	9,000	6,000	16,000
Non-S&E fields	1,037,000	124,000	S	114,000	65,000	D	703,000	30,000	926,000	111,000	38,000	32,000	11,000	11,000	47,000
Female gender identity	2,566,000	248,000	7,000	576,000	172,000	S	1,500,000	62,000	2,252,000	314,000	71,000	110,000	25,000	42,000	157,000
S&E fields	1,732,000	164,000	5,000	447,000	98,000	*	974,000	44,000	1,541,000	191,000	40,000	73,000	14,000	25,000	95,000
Biological, agricultural, and environmental life sciences	378,000	31,000	D	81,000	16,000	D	240,000	8,000	342,000	36,000	11,000	9,000	4,000	4,000	20,000
Computer and mathematical sciences	463,000	35,000	D	184,000	41,000	D	190,000	13,000	427,000	37,000	10,000	16,000	S	8,000	16,000
Physical and related sciences	132,000	9,000	D	20,000	4,000	D	96,000	3,000	114,000	18,000	2,000	8,000	S	1,000	9,000
Social and related sciences	354,000	49,000	S	46,000	26,000	D	224,000	7,000	299,000	56,000	11,000	15,000	4,000	7,000	31,000
Engineering	404,000	40,000	D	116,000	12,000	D	223,000	13,000	360,000	44,000	7,000	24,000	4,000	5,000	19,000
S&E-related fields	216,000	10,000	D	36,000	19,000	D	143,000	S	179,000	S	4,000	6,000	D	S	S

TABLE 1-5

Employed scientists and engineers, by sex assigned at birth, gender identity, major field of highest degree, ethnicity, race, disability status, and type of disability: 2023

(Number)

Sex assigned at birth, gender identity,[a] 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	618,000	74,000	D	93,000	54,000	D	383,000	12,000	532,000	86,000	26,000	30,000	10,000	14,000	36,000
Male gender identity	6,108,000	600,000	6,000	1,191,000	312,000	6,000	3,829,000	165,000	5,484,000	624,000	198,000	220,000	51,000	47,000	264,000
S&E fields	4,755,000	446,000	3,000	1,007,000	226,000	5,000	2,942,000	126,000	4,282,000	473,000	150,000	172,000	32,000	31,000	203,000
Biological, agricultural, and environmental life sciences	372,000	42,000	*	58,000	11,000	D	253,000	8,000	326,000	46,000	16,000	17,000	2,000	S	15,000
Computer and mathematical sciences	1,637,000	152,000	D	405,000	103,000	D	921,000	54,000	1,477,000	159,000	53,000	54,000	15,000	14,000	70,000
Physical and related sciences	343,000	30,000	D	51,000	12,000	D	240,000	7,000	295,000	48,000	16,000	24,000	S	1,000	19,000
Social and related sciences	374,000	38,000	D	24,000	21,000	D	280,000	10,000	325,000	49,000	6,000	11,000	S	3,000	31,000
Engineering	2,029,000	184,000	1,000	469,000	78,000	S	1,247,000	47,000	1,859,000	170,000	60,000	66,000	12,000	10,000	68,000
S&E-related fields	315,000	30,000	D	72,000	21,000	D	180,000	10,000	275,000	40,000	9,000	15,000	9,000	6,000	14,000
Non-S&E fields	1,038,000	124,000	S	111,000	65,000	D	707,000	29,000	926,000	112,000	39,000	32,000	11,000	11,000	47,000
Transgender identity	30,000	3,000	D	1,000	D	D	24,000	2,000	17,000	14,000	S	D	D	D	S
S&E fields	25,000	3,000	D	S	D	D	20,000	1,000	15,000	S	S	D	D	D	S
Biological, agricultural, and environmental life sciences	S	D	D	D	D	D	S	D	S	D	D	D	D	D	D
Computer and mathematical sciences	8,000	D	D	D	D	D	5,000	D	7,000	2,000	D	D	D	D	S
Physical and related sciences	1,000	D	D	D	D	D	*	D	1,000	D	D	D	D	D	D
Social and related sciences	S	D	D	D	D	D	S	D	S	S	D	D	D	D	S
Engineering	5,000	D	D	D	D	D	4,000	D	4,000	D	D	D	D	D	D
S&E-related fields	S	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Non-S&E fields	S	D	D	D	D	D	S	D	S	D	D	D	D	D	D
Different term used for gender identity	44,000	7,000	D	9,000	S	D	23,000	S	32,000	12,000	S	S	D	D	6,000
S&E fields	38,000	7,000	D	S	S	D	20,000	S	27,000	11,000	S	S	D	D	5,000
Biological, agricultural, and environmental life sciences	4,000	D	D	D	D	D	2,000	D	2,000	S	D	D	D	D	D
Computer and mathematical sciences	11,000	D	D	S	D	D	8,000	D	9,000	S	D	D	D	D	S
Physical and related sciences	2,000	D	D	D	D	D	1,000	D	1,000	D	D	D	D	D	D
Social and related sciences	10,000	S	D	D	D	D	7,000	D	6,000	4,000	D	D	D	D	S
Engineering	11,000	D	D	D	D	D	3,000	D	9,000	S	D	D	D	D	D
S&E-related fields	2,000	D	D	D	D	D	S	D	S	D	D	D	D	D	D
Non-S&E fields	S	D	D	D	D	D	1,000	D	S	D	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.

[a] Gender identity estimates are tabulated based on "mark all that apply" responses to the following question, "How do you currently describe yourself? 1. Male, 2. Female, 3. Transgender, and 4. I use a different term." Thus, these four gender identity categories are not mutually exclusive.

Note(s):
Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding and multiple response options for the gender identity question. 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, 2023.

TABLE 2-1

Employed college graduates, by level of highest degree, major occupation, sex assigned at birth, gender identity, ethnicity, race, and disability status: 2023

(Number)

Level of highest degree and occupation	Total	Sex assigned at birth		Gender identity[a]				Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity		American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race		
All degrees	56,061,000	29,603,000	26,458,000	29,454,000	26,360,000	102,000	256,000	6,016,000	112,000	6,134,000	4,523,000	42,000	37,670,000	1,564,000	49,379,000	6,682,000
S&E occupations	8,711,000	2,586,000	6,126,000	2,566,000	6,108,000	30,000	44,000	851,000	12,000	1,771,000	487,000	7,000	5,353,000	230,000	7,760,000	951,000
Biological, agricultural, and other life scientists	813,000	405,000	408,000	400,000	406,000	S	6,000	78,000	*	148,000	30,000	D	541,000	16,000	695,000	118,000
Computer and mathematical scientists	4,573,000	1,214,000	3,360,000	1,206,000	3,348,000	16,000	19,000	425,000	4,000	1,107,000	294,000	2,000	2,620,000	122,000	4,099,000	475,000
Physical and related scientists	430,000	160,000	270,000	159,000	270,000	1,000	1,000	38,000	D	53,000	15,000	D	311,000	10,000	380,000	51,000
Social and related scientists	631,000	398,000	233,000	390,000	235,000	S	7,000	84,000	S	75,000	58,000	D	392,000	18,000	546,000	85,000
Engineers	2,263,000	409,000	1,855,000	411,000	1,848,000	4,000	10,000	226,000	4,000	388,000	90,000	S	1,490,000	63,000	2,041,000	223,000
S&E-related occupations	11,253,000	6,669,000	4,584,000	6,645,000	4,563,000	15,000	48,000	1,142,000	13,000	1,664,000	889,000	10,000	7,159,000	376,000	10,137,000	1,115,000
Non-S&E occupations	36,097,000	20,349,000	15,748,000	20,243,000	15,689,000	57,000	164,000	4,023,000	86,000	2,699,000	3,147,000	24,000	25,158,000	959,000	31,482,000	4,615,000
Bachelor's	34,400,000	17,847,000	16,553,000	17,741,000	16,476,000	69,000	187,000	3,956,000	67,000	3,139,000	2,662,000	23,000	23,537,000	1,015,000	29,840,000	4,560,000
S&E occupations	5,069,000	1,318,000	3,752,000	1,306,000	3,742,000	23,000	24,000	535,000	7,000	737,000	283,000	5,000	3,342,000	160,000	4,465,000	604,000
Biological, agricultural, and other life scientists	315,000	157,000	158,000	154,000	156,000	D	4,000	30,000	D	30,000	16,000	D	231,000	7,000	260,000	55,000
Computer and mathematical scientists	2,999,000	733,000	2,266,000	730,000	2,257,000	12,000	11,000	307,000	S	518,000	196,000	S	1,872,000	101,000	2,654,000	345,000
Physical and related scientists	186,000	82,000	103,000	82,000	103,000	D	D	23,000	D	12,000	8,000	D	137,000	4,000	162,000	24,000
Social and related scientists	168,000	99,000	69,000	91,000	76,000	D	D	27,000	D	22,000	15,000	D	97,000	S	137,000	31,000
Engineers	1,402,000	247,000	1,155,000	249,000	1,150,000	S	S	148,000	2,000	154,000	48,000	D	1,005,000	43,000	1,252,000	150,000
S&E-related occupations	5,881,000	3,628,000	2,253,000	3,608,000	2,245,000	5,000	28,000	690,000	5,000	761,000	455,000	2,000	3,755,000	213,000	5,213,000	668,000
Non-S&E occupations	23,449,000	12,902,000	10,548,000	12,827,000	10,489,000	41,000	135,000	2,731,000	55,000	1,642,000	1,924,000	15,000	16,440,000	642,000	20,162,000	3,288,000
Master's	15,780,000	9,101,000	6,679,000	9,066,000	6,662,000	21,000	53,000	1,577,000	29,000	2,040,000	1,446,000	9,000	10,312,000	367,000	14,178,000	1,602,000
S&E occupations	2,599,000	886,000	1,713,000	880,000	1,705,000	5,000	16,000	233,000	S	756,000	160,000	S	1,396,000	50,000	2,346,000	253,000
Biological, agricultural, and other life scientists	211,000	121,000	91,000	120,000	90,000	D	1,000	19,000	D	39,000	6,000	D	141,000	5,000	171,000	S
Computer and mathematical scientists	1,347,000	426,000	920,000	423,000	918,000	1,000	7,000	102,000	D	511,000	89,000	D	627,000	18,000	1,230,000	116,000
Physical and related scientists	119,000	46,000	73,000	46,000	73,000	D	1,000	10,000	D	18,000	5,000	D	81,000	S	105,000	15,000
Social and related scientists	242,000	162,000	79,000	161,000	75,000	D	S	37,000	D	23,000	23,000	D	150,000	5,000	219,000	22,000
Engineers	680,000	131,000	550,000	130,000	549,000	S	S	65,000	S	165,000	36,000	D	396,000	16,000	620,000	60,000
S&E-related occupations	3,096,000	1,926,000	1,170,000	1,919,000	1,165,000	5,000	11,000	292,000	7,000	424,000	288,000	S	1,995,000	88,000	2,815,000	281,000
Non-S&E occupations	10,085,000	6,289,000	3,796,000	6,267,000	3,792,000	12,000	26,000	1,052,000	18,000	861,000	999,000	S	6,922,000	228,000	9,017,000	1,068,000
Doctorate	2,420,000	1,060,000	1,361,000	1,056,000	1,358,000	5,000	8,000	187,000	3,000	478,000	200,000	2,000	1,496,000	55,000	2,198,000	223,000
S&E occupations	973,000	344,000	629,000	341,000	630,000	3,000	4,000	75,000	S	267,000	38,000	1,000	574,000	18,000	890,000	83,000
Biological, agricultural, and other life scientists	264,000	115,000	149,000	114,000	150,000	D	1,000	27,000	D	71,000	7,000	D	155,000	4,000	243,000	21,000
Computer and mathematical scientists	207,000	47,000	161,000	44,000	161,000	S	S	15,000	D	75,000	5,000	D	108,000	3,000	194,000	13,000
Physical and related scientists	123,000	32,000	92,000	31,000	92,000	D	S	6,000	D	23,000	2,000	D	91,000	S	112,000	12,000
Social and related scientists	198,000	120,000	78,000	120,000	78,000	D	D	14,000	D	28,000	17,000	D	131,000	7,000	173,000	25,000
Engineers	181,000	31,000	150,000	31,000	149,000	D	D	13,000	D	69,000	6,000	D	89,000	4,000	168,000	12,000
S&E-related occupations	562,000	302,000	259,000	302,000	256,000	D	2,000	41,000	S	114,000	58,000	D	334,000	13,000	499,000	63,000

TABLE 2-1

Employed college graduates, by level of highest degree, major occupation, sex assigned at birth, gender identity, ethnicity, race, and disability status: 2023

(Number)

Level of highest degree and occupation	Total	Sex assigned at birth		Gender identity[a]				Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity		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	885,000	413,000	472,000	413,000	472,000	D	S	72,000	S	96,000	104,000	D	588,000	23,000	808,000	77,000
Professional	3,461,000	1,595,000	1,865,000	1,591,000	1,864,000	D	S	296,000	S	476,000	215,000	7,000	2,325,000	128,000	3,164,000	297,000
S&E occupations	70,000	38,000	32,000	38,000	32,000	D	D	S	D	11,000	S	D	42,000	D	59,000	S
Biological, agricultural, and other life scientists	23,000	13,000	10,000	13,000	10,000	D	D	1,000	D	7,000	D	D	14,000	D	20,000	S
Computer and mathematical scientists	21,000	S	12,000	S	12,000	D	D	D	D	3,000	D	D	12,000	D	20,000	D
Physical and related scientists	S	D	S	D	S	D	D	D	D	D	D	D	S	D	D	D
Social and related scientists	24,000	17,000	7,000	17,000	6,000	D	D	S	D	S	2,000	D	14,000	D	17,000	S
Engineers	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
S&E-related occupations	1,714,000	813,000	901,000	816,000	896,000	D	D	119,000	1,000	365,000	88,000	D	1,076,000	61,000	1,610,000	104,000
Non-S&E occupations	1,677,000	745,000	932,000	737,000	936,000	D	D	168,000	S	100,000	121,000	D	1,208,000	66,000	1,494,000	183,000

* = 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.

[a] Gender identity estimates are tabulated based on "mark all that apply" responses to the following question, "How do you currently describe yourself? 1. Male, 2. Female, 3. Transgender, and 4. I use a different term." Thus, these four gender identity categories are not mutually exclusive.

Note(s):
Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding and multiple response options for the gender identity question. 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, 2023.

TABLE 2-2

Full-time employed college graduates, by major occupation, level of highest degree, age, sex assigned at birth, and gender identity: 2023

(Number)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
All occupations	47,357,000	23,700,000	23,657,000	23,598,000	23,561,000	93,000	199,000
29 and younger	8,039,000	4,293,000	3,745,000	4,244,000	3,697,000	34,000	107,000
30–39	13,411,000	6,947,000	6,464,000	6,904,000	6,430,000	35,000	69,000
40–49	11,400,000	5,698,000	5,702,000	5,687,000	5,690,000	20,000	S
50–75	14,508,000	6,762,000	7,746,000	6,763,000	7,744,000	S	10,000
S&E occupations	8,086,000	2,289,000	5,796,000	2,278,000	5,776,000	23,000	38,000
29 and younger	1,788,000	566,000	1,222,000	559,000	1,216,000	8,000	22,000
30–39	2,553,000	746,000	1,807,000	746,000	1,793,000	9,000	13,000
40–49	1,785,000	483,000	1,301,000	481,000	1,301,000	5,000	S
50–75	1,959,000	494,000	1,465,000	492,000	1,466,000	D	1,000
Biological, agricultural, and other life scientists	729,000	356,000	373,000	353,000	371,000	S	5,000
29 and younger	172,000	96,000	76,000	93,000	76,000	S	S
30–39	233,000	114,000	119,000	114,000	117,000	S	1,000
40–49	147,000	68,000	79,000	68,000	79,000	D	D
50–75	176,000	78,000	99,000	78,000	99,000	D	D
Computer and mathematical scientists	4,323,000	1,112,000	3,211,000	1,104,000	3,201,000	15,000	19,000
29 and younger	901,000	231,000	669,000	228,000	666,000	6,000	8,000
30–39	1,377,000	373,000	1,004,000	373,000	994,000	4,000	9,000
40–49	1,029,000	242,000	787,000	239,000	788,000	4,000	D
50–75	1,017,000	265,000	751,000	264,000	752,000	D	D
Physical and related scientists	394,000	148,000	246,000	147,000	246,000	1,000	1,000
29 and younger	97,000	43,000	54,000	42,000	54,000	D	1,000
30–39	121,000	50,000	71,000	50,000	71,000	D	D
40–49	72,000	27,000	45,000	27,000	45,000	D	D
50–75	104,000	27,000	77,000	27,000	77,000	D	D
Social and related scientists	513,000	314,000	200,000	312,000	198,000	D	3,000
29 and younger	97,000	68,000	30,000	66,000	30,000	D	D
30–39	173,000	102,000	70,000	102,000	69,000	D	2,000
40–49	108,000	71,000	36,000	71,000	36,000	D	D
50–75	136,000	72,000	63,000	72,000	63,000	D	D
Engineers	2,127,000	361,000	1,766,000	363,000	1,760,000	3,000	S
29 and younger	522,000	128,000	394,000	129,000	391,000	D	S
30–39	650,000	107,000	543,000	107,000	541,000	S	*
40–49	429,000	75,000	354,000	76,000	353,000	D	D
50–75	527,000	51,000	475,000	51,000	475,000	D	D

TABLE 2-2

Full-time employed college graduates, by major occupation, level of highest degree, age, sex assigned at birth, and gender identity: 2023

(Number)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
S&E-related occupations	9,336,000	5,175,000	4,161,000	5,159,000	4,140,000	14,000	35,000
29 and younger	1,676,000	1,042,000	634,000	1,036,000	627,000	6,000	14,000
30–39	2,835,000	1,625,000	1,210,000	1,615,000	1,204,000	4,000	S
40–49	2,100,000	1,109,000	991,000	1,111,000	985,000	D	S
50–75	2,725,000	1,399,000	1,326,000	1,397,000	1,323,000	D	D
Non-S&E occupations	29,935,000	16,235,000	13,700,000	16,161,000	13,645,000	56,000	126,000
29 and younger	4,575,000	2,686,000	1,889,000	2,650,000	1,853,000	S	71,000
30–39	8,022,000	4,575,000	3,447,000	4,543,000	3,433,000	21,000	42,000
40–49	7,515,000	4,105,000	3,410,000	4,095,000	3,404,000	S	S
50–75	9,823,000	4,869,000	4,954,000	4,873,000	4,955,000	S	S
Bachelor's	28,906,000	14,027,000	14,879,000	13,954,000	14,808,000	61,000	146,000
29 and younger	6,149,000	3,113,000	3,036,000	3,071,000	2,991,000	27,000	93,000
30–39	7,920,000	3,876,000	4,044,000	3,847,000	4,027,000	16,000	39,000
40–49	6,385,000	3,048,000	3,337,000	3,038,000	3,331,000	S	S
50–75	8,452,000	3,990,000	4,462,000	3,999,000	4,459,000	S	D
S&E occupations	4,748,000	1,171,000	3,577,000	1,166,000	3,562,000	16,000	22,000
29 and younger	1,330,000	374,000	956,000	373,000	950,000	6,000	13,000
30–39	1,424,000	347,000	1,077,000	347,000	1,066,000	6,000	8,000
40–49	963,000	216,000	747,000	213,000	749,000	4,000	D
50–75	1,031,000	234,000	797,000	234,000	797,000	D	D
Biological, agricultural, and other life scientists	277,000	134,000	143,000	132,000	141,000	D	S
29 and younger	102,000	52,000	50,000	50,000	49,000	D	S
30–39	93,000	42,000	51,000	42,000	49,000	D	D
40–49	38,000	16,000	22,000	15,000	22,000	D	D
50–75	45,000	24,000	21,000	24,000	21,000	D	D
Computer and mathematical scientists	2,838,000	671,000	2,167,000	668,000	2,159,000	11,000	11,000
29 and younger	709,000	165,000	545,000	165,000	542,000	5,000	3,000
30–39	869,000	213,000	656,000	213,000	648,000	2,000	7,000
40–49	636,000	135,000	501,000	131,000	503,000	S	D
50–75	625,000	159,000	466,000	159,000	466,000	D	D
Physical and related scientists	172,000	78,000	94,000	78,000	94,000	D	D
29 and younger	63,000	29,000	34,000	29,000	34,000	D	D
30–39	51,000	25,000	25,000	25,000	25,000	D	D
40–49	22,000	9,000	13,000	9,000	13,000	D	D
50–75	37,000	14,000	23,000	14,000	23,000	D	D

TABLE 2-2

Full-time employed college graduates, by major occupation, level of highest degree, age, sex assigned at birth, and gender identity: 2023

(Number)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
Social and related scientists	137,000	76,000	62,000	75,000	62,000	D	D
29 and younger	49,000	33,000	16,000	32,000	16,000	D	D
30–39	37,000	19,000	18,000	19,000	18,000	D	D
40–49	21,000	10,000	S	10,000	S	D	D
50–75	31,000	13,000	17,000	13,000	17,000	D	D
Engineers	1,323,000	212,000	1,110,000	215,000	1,105,000	S	S
29 and younger	408,000	96,000	312,000	98,000	309,000	D	D
30–39	374,000	47,000	328,000	47,000	326,000	S	D
40–49	247,000	46,000	201,000	46,000	201,000	D	D
50–75	293,000	24,000	270,000	24,000	270,000	D	D
S&E-related occupations	4,894,000	2,782,000	2,112,000	2,767,000	2,104,000	5,000	22,000
29 and younger	1,141,000	691,000	449,000	684,000	445,000	3,000	13,000
30–39	1,400,000	775,000	624,000	766,000	625,000	D	S
40–49	937,000	538,000	399,000	539,000	397,000	D	D
50–75	1,417,000	778,000	639,000	779,000	637,000	D	D
Non-S&E occupations	19,265,000	10,074,000	9,191,000	10,020,000	9,142,000	40,000	101,000
29 and younger	3,678,000	2,047,000	1,631,000	2,014,000	1,596,000	S	67,000
30–39	5,096,000	2,754,000	2,342,000	2,733,000	2,336,000	S	S
40–49	4,485,000	2,294,000	2,191,000	2,286,000	2,185,000	D	D
50–75	6,005,000	2,978,000	3,027,000	2,986,000	3,025,000	D	D
Master's	13,457,000	7,459,000	5,998,000	7,431,000	5,984,000	20,000	44,000
29 and younger	1,472,000	939,000	533,000	930,000	532,000	3,000	13,000
30–39	4,023,000	2,326,000	1,697,000	2,315,000	1,684,000	12,000	24,000
40–49	3,744,000	2,042,000	1,702,000	2,040,000	1,699,000	4,000	S
50–75	4,219,000	2,152,000	2,067,000	2,146,000	2,069,000	D	S
S&E occupations	2,367,000	773,000	1,594,000	768,000	1,590,000	4,000	12,000
29 and younger	404,000	173,000	231,000	167,000	231,000	1,000	8,000
30–39	774,000	261,000	513,000	261,000	510,000	S	2,000
40–49	560,000	165,000	395,000	166,000	393,000	D	D
50–75	629,000	174,000	455,000	173,000	455,000	D	D
Biological, agricultural, and other life scientists	184,000	104,000	80,000	104,000	80,000	D	S
29 and younger	58,000	S	21,000	S	21,000	D	D
30–39	44,000	26,000	18,000	26,000	18,000	D	D
40–49	36,000	19,000	17,000	19,000	17,000	D	D
50–75	47,000	23,000	24,000	23,000	24,000	D	D

TABLE 2-2

Full-time employed college graduates, by major occupation, level of highest degree, age, sex assigned at birth, and gender identity: 2023

(Number)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
Computer and mathematical scientists	1,263,000	389,000	874,000	386,000	872,000	1,000	6,000
29 and younger	177,000	63,000	115,000	60,000	114,000	1,000	S
30–39	425,000	144,000	281,000	144,000	280,000	D	1,000
40–49	329,000	90,000	239,000	90,000	238,000	D	D
50–75	332,000	93,000	240,000	92,000	240,000	D	D
Physical and related scientists	103,000	39,000	64,000	39,000	64,000	D	1,000
29 and younger	26,000	12,000	14,000	11,000	14,000	D	D
30–39	33,000	13,000	20,000	13,000	20,000	D	D
40–49	23,000	9,000	14,000	9,000	14,000	D	D
50–75	21,000	5,000	16,000	5,000	16,000	D	D
Social and related scientists	186,000	122,000	63,000	121,000	62,000	D	S
29 and younger	42,000	31,000	11,000	30,000	11,000	D	D
30–39	58,000	35,000	23,000	34,000	22,000	D	D
40–49	34,000	27,000	8,000	27,000	8,000	D	D
50–75	52,000	30,000	22,000	30,000	22,000	D	D
Engineers	631,000	119,000	512,000	118,000	512,000	S	S
29 and younger	101,000	30,000	70,000	30,000	71,000	D	D
30–39	215,000	44,000	171,000	44,000	170,000	D	D
40–49	139,000	21,000	117,000	21,000	117,000	D	D
50–75	177,000	23,000	153,000	23,000	153,000	D	D
S&E-related occupations	2,596,000	1,514,000	1,083,000	1,508,000	1,077,000	4,000	10,000
29 and younger	288,000	213,000	76,000	212,000	76,000	1,000	1,000
30–39	831,000	507,000	324,000	506,000	319,000	1,000	S
40–49	712,000	377,000	334,000	376,000	334,000	D	D
50–75	766,000	417,000	349,000	414,000	349,000	D	D
Non-S&E occupations	8,494,000	5,173,000	3,321,000	5,155,000	3,317,000	12,000	22,000
29 and younger	779,000	554,000	226,000	551,000	225,000	S	4,000
30–39	2,418,000	1,558,000	860,000	1,548,000	855,000	8,000	17,000
40–49	2,472,000	1,499,000	973,000	1,498,000	972,000	D	D
50–75	2,825,000	1,562,000	1,263,000	1,558,000	1,266,000	D	D
Doctorate	2,117,000	897,000	1,220,000	895,000	1,217,000	5,000	7,000
29 and younger	111,000	52,000	59,000	52,000	59,000	1,000	1,000
30–39	624,000	290,000	334,000	288,000	333,000	S	5,000
40–49	593,000	265,000	328,000	267,000	326,000	D	D
50–75	788,000	290,000	498,000	289,000	499,000	D	D

TABLE 2-2

Full-time employed college graduates, by major occupation, level of highest degree, age, sex assigned at birth, and gender identity: 2023

(Number)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
S&E occupations	911,000	313,000	598,000	311,000	598,000	3,000	4,000
29 and younger	53,000	18,000	35,000	17,000	35,000	S	S
30–39	336,000	130,000	206,000	129,000	206,000	D	3,000
40–49	249,000	94,000	155,000	95,000	154,000	D	D
50–75	273,000	71,000	202,000	70,000	203,000	D	D
Biological, agricultural, and other life scientists	248,000	106,000	141,000	106,000	142,000	D	1,000
29 and younger	13,000	7,000	6,000	6,000	6,000	D	D
30–39	95,000	45,000	49,000	45,000	49,000	D	D
40–49	68,000	30,000	39,000	30,000	39,000	D	D
50–75	72,000	25,000	48,000	25,000	48,000	D	D
Computer and mathematical scientists	201,000	44,000	157,000	42,000	158,000	S	D
29 and younger	14,000	4,000	10,000	3,000	10,000	D	D
30–39	75,000	16,000	59,000	15,000	59,000	D	D
40–49	62,000	16,000	45,000	16,000	45,000	D	D
50–75	51,000	8,000	43,000	7,000	44,000	D	D
Physical and related scientists	117,000	31,000	87,000	31,000	87,000	D	S
29 and younger	8,000	2,000	6,000	2,000	6,000	D	D
30–39	38,000	12,000	26,000	12,000	26,000	D	D
40–49	27,000	9,000	18,000	9,000	18,000	D	D
50–75	44,000	8,000	37,000	8,000	37,000	D	D
Social and related scientists	172,000	103,000	70,000	103,000	70,000	D	D
29 and younger	5,000	3,000	2,000	3,000	2,000	D	D
30–39	69,000	41,000	28,000	41,000	28,000	D	D
40–49	49,000	32,000	17,000	32,000	17,000	D	D
50–75	49,000	26,000	23,000	26,000	23,000	D	D
Engineers	173,000	30,000	143,000	30,000	142,000	D	D
29 and younger	13,000	2,000	11,000	2,000	11,000	D	D
30–39	61,000	16,000	44,000	16,000	44,000	D	D
40–49	43,000	7,000	36,000	8,000	35,000	D	D
50–75	56,000	5,000	52,000	4,000	52,000	D	D
S&E-related occupations	469,000	241,000	228,000	242,000	225,000	D	S
29 and younger	50,000	29,000	21,000	29,000	21,000	D	D
30–39	140,000	82,000	58,000	81,000	57,000	D	D
40–49	128,000	59,000	69,000	60,000	68,000	D	D
50–75	151,000	71,000	80,000	71,000	80,000	D	D

TABLE 2-2

Full-time employed college graduates, by major occupation, level of highest degree, age, sex assigned at birth, and gender identity: 2023

(Number)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
Non-S&E occupations	737,000	343,000	394,000	342,000	394,000	D	D
29 and younger	8,000	6,000	3,000	S	3,000	D	D
30–39	148,000	78,000	70,000	78,000	70,000	D	D
40–49	216,000	111,000	105,000	111,000	105,000	D	D
50–75	364,000	148,000	216,000	148,000	216,000	D	D
Professional	2,877,000	1,316,000	1,561,000	1,318,000	1,553,000	D	D
29 and younger	307,000	189,000	118,000	192,000	115,000	D	D
30–39	844,000	455,000	389,000	454,000	386,000	D	D
40–49	678,000	343,000	335,000	343,000	335,000	D	D
50–75	1,048,000	329,000	719,000	329,000	718,000	D	D
S&E occupations	60,000	33,000	27,000	33,000	27,000	D	D
29 and younger	D	D	D	D	D	D	D
30–39	19,000	S	10,000	S	10,000	D	D
40–49	12,000	7,000	5,000	7,000	5,000	D	D
50–75	28,000	16,000	12,000	16,000	12,000	D	D
Biological, agricultural, and other life scientists	20,000	11,000	8,000	11,000	8,000	D	D
29 and younger	D	D	D	D	D	D	D
30–39	1,000	D	1,000	D	1,000	D	D
40–49	6,000	S	S	S	S	D	D
50–75	12,000	S	6,000	S	6,000	D	D
Computer and mathematical scientists	21,000	S	12,000	S	12,000	D	D
29 and younger	D	D	D	D	D	D	D
30–39	9,000	D	D	D	D	D	D
40–49	3,000	D	D	D	D	D	D
50–75	9,000	S	3,000	S	3,000	D	D
Physical and related scientists	D	D	D	D	D	D	D
29 and younger	D	D	D	D	D	D	D
30–39	D	D	D	D	D	D	D
40–49	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D
Social and related scientists	18,000	13,000	5,000	13,000	5,000	D	D
29 and younger	D	D	D	D	D	D	D
30–39	S	S	2,000	S	2,000	D	D
40–49	4,000	2,000	S	2,000	D	D	D
50–75	5,000	S	S	S	S	D	D

TABLE 2-2

Full-time employed college graduates, by major occupation, level of highest degree, age, sex assigned at birth, and gender identity: 2023

(Number)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
Engineers	D	D	D	D	D	D	D
29 and younger	D	D	D	D	D	D	D
30–39	D	D	D	D	D	D	D
40–49	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D
S&E-related occupations	1,376,000	638,000	739,000	641,000	734,000	D	D
29 and younger	197,000	109,000	88,000	111,000	85,000	D	D
30–39	465,000	261,000	204,000	261,000	204,000	D	D
40–49	323,000	135,000	188,000	136,000	187,000	D	D
50–75	392,000	133,000	259,000	133,000	258,000	D	D
Non-S&E occupations	1,440,000	645,000	795,000	644,000	792,000	D	D
29 and younger	109,000	79,000	30,000	79,000	30,000	D	D
30–39	360,000	185,000	175,000	184,000	172,000	D	D
40–49	342,000	200,000	142,000	200,000	142,000	D	D
50–75	629,000	181,000	448,000	181,000	448,000	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.

[a] Gender identity estimates are tabulated based on "mark all that apply" responses to the following question, "How do you currently describe yourself? 1. Male, 2. Female, 3. Transgender, and 4. I use a different term." Thus, these four gender identity categories are not mutually exclusive.

Note(s):
Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding and multiple response options for the gender identity question. Full-time employed college graduates are individuals working at least 35 hours in a typical week.

Source(s):
National Center for Science and Engineering Statistics, National Survey of College Graduates, 2023.

TABLE 2-3

Full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Number)

Sex assigned at birth, gender identity,[a] 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				
All sexes and gender identities	47,357,000	5,204,000	76,000	5,286,000	3,867,000	31,000	31,567,000	1,326,000	42,000,000	5,357,000	44,919,000	2,438,000
29 and younger	8,039,000	1,078,000	8,000	916,000	556,000	4,000	5,093,000	384,000	7,218,000	821,000	7,630,000	408,000
30–39	13,411,000	1,624,000	10,000	1,695,000	1,026,000	6,000	8,634,000	416,000	12,177,000	1,234,000	12,405,000	1,006,000
40–49	11,400,000	1,257,000	20,000	1,403,000	945,000	14,000	7,508,000	253,000	10,205,000	1,195,000	10,702,000	698,000
50–75	14,508,000	1,245,000	38,000	1,273,000	1,341,000	7,000	10,332,000	273,000	12,400,000	2,108,000	14,181,000	327,000
S&E occupations	8,086,000	785,000	11,000	1,648,000	462,000	6,000	4,958,000	215,000	7,222,000	864,000	7,131,000	954,000
29 and younger	1,788,000	228,000	D	354,000	91,000	D	1,036,000	74,000	1,585,000	203,000	1,591,000	197,000
30–39	2,553,000	279,000	3,000	563,000	149,000	S	1,489,000	69,000	2,310,000	243,000	2,106,000	448,000
40–49	1,785,000	145,000	2,000	427,000	116,000	D	1,053,000	41,000	1,614,000	171,000	1,551,000	234,000
50–75	1,959,000	132,000	2,000	304,000	107,000	1,000	1,380,000	32,000	1,713,000	246,000	1,884,000	76,000
Biological, agricultural, and other life scientists	729,000	70,000	*	136,000	27,000	D	480,000	15,000	625,000	104,000	629,000	100,000
29 and younger	172,000	23,000	D	22,000	8,000	D	114,000	4,000	132,000	S	158,000	14,000
30–39	233,000	31,000	D	50,000	10,000	D	137,000	5,000	201,000	33,000	179,000	54,000
40–49	147,000	7,000	D	30,000	4,000	D	102,000	3,000	133,000	14,000	123,000	24,000
50–75	176,000	10,000	D	34,000	5,000	D	126,000	S	159,000	17,000	170,000	7,000
Computer and mathematical scientists	4,323,000	392,000	4,000	1,046,000	282,000	2,000	2,479,000	118,000	3,879,000	444,000	3,729,000	593,000
29 and younger	901,000	104,000	D	226,000	56,000	D	467,000	46,000	814,000	86,000	777,000	124,000
30–39	1,377,000	145,000	D	348,000	86,000	D	759,000	37,000	1,242,000	134,000	1,108,000	268,000
40–49	1,029,000	73,000	D	309,000	73,000	D	552,000	21,000	934,000	95,000	868,000	160,000
50–75	1,017,000	70,000	S	162,000	68,000	D	701,000	14,000	888,000	128,000	976,000	41,000
Physical and related scientists	394,000	36,000	D	48,000	14,000	D	285,000	9,000	349,000	45,000	357,000	37,000
29 and younger	97,000	11,000	D	14,000	S	D	63,000	S	86,000	11,000	86,000	11,000
30–39	121,000	14,000	D	16,000	5,000	D	85,000	2,000	112,000	10,000	103,000	18,000
40–49	72,000	7,000	D	6,000	3,000	D	54,000	1,000	62,000	10,000	67,000	5,000
50–75	104,000	4,000	D	11,000	4,000	D	84,000	1,000	89,000	15,000	102,000	2,000
Social and related scientists	513,000	68,000	S	57,000	51,000	D	321,000	13,000	451,000	62,000	478,000	35,000
29 and younger	97,000	21,000	D	14,000	9,000	D	50,000	3,000	81,000	17,000	92,000	5,000
30–39	173,000	22,000	D	26,000	18,000	D	104,000	3,000	150,000	22,000	157,000	16,000
40–49	108,000	14,000	D	9,000	10,000	D	70,000	S	100,000	8,000	99,000	S
50–75	136,000	12,000	D	9,000	14,000	D	97,000	4,000	120,000	16,000	129,000	7,000
Engineers	2,127,000	218,000	4,000	362,000	88,000	S	1,393,000	61,000	1,919,000	208,000	1,937,000	190,000
29 and younger	522,000	69,000	D	79,000	15,000	D	342,000	16,000	473,000	49,000	479,000	43,000
30–39	650,000	68,000	S	123,000	30,000	D	404,000	22,000	605,000	45,000	559,000	91,000
40–49	429,000	44,000	D	72,000	25,000	D	274,000	12,000	384,000	44,000	393,000	36,000
50–75	527,000	37,000	D	88,000	17,000	D	373,000	10,000	456,000	70,000	507,000	20,000

TABLE 2-3

Full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Number)

Sex assigned at birth, gender identity,[a] 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				
S&E-related occupations	9,336,000	983,000	10,000	1,433,000	758,000	9,000	5,853,000	291,000	8,432,000	904,000	8,831,000	505,000
29 and younger	1,676,000	219,000	D	254,000	89,000	1,000	1,040,000	72,000	1,529,000	147,000	1,586,000	89,000
30–39	2,835,000	337,000	5,000	431,000	234,000	D	1,729,000	99,000	2,637,000	198,000	2,610,000	225,000
40–49	2,100,000	191,000	2,000	363,000	196,000	7,000	1,291,000	51,000	1,904,000	196,000	1,977,000	123,000
50–75	2,725,000	236,000	2,000	385,000	238,000	S	1,793,000	69,000	2,361,000	364,000	2,657,000	68,000
Non-S&E occupations	29,935,000	3,436,000	56,000	2,205,000	2,647,000	15,000	20,756,000	819,000	26,346,000	3,589,000	28,957,000	979,000
29 and younger	4,575,000	631,000	4,000	307,000	376,000	D	3,017,000	238,000	4,103,000	471,000	4,452,000	122,000
30–39	8,022,000	1,008,000	2,000	701,000	643,000	3,000	5,416,000	248,000	7,230,000	793,000	7,689,000	333,000
40–49	7,515,000	921,000	17,000	613,000	633,000	S	5,165,000	160,000	6,687,000	828,000	7,174,000	341,000
50–75	9,823,000	876,000	34,000	584,000	995,000	S	7,158,000	172,000	8,326,000	1,497,000	9,641,000	182,000
Female at birth	23,700,000	2,711,000	36,000	2,512,000	2,269,000	15,000	15,452,000	704,000	20,994,000	2,706,000	22,738,000	962,000
29 and younger	4,293,000	601,000	4,000	495,000	308,000	S	2,688,000	197,000	3,837,000	456,000	4,091,000	202,000
30–39	6,947,000	887,000	5,000	832,000	627,000	S	4,351,000	243,000	6,312,000	634,000	6,564,000	383,000
40–49	5,698,000	633,000	8,000	655,000	530,000	8,000	3,725,000	138,000	5,076,000	622,000	5,441,000	257,000
50–75	6,762,000	590,000	19,000	530,000	805,000	S	4,688,000	126,000	5,769,000	993,000	6,642,000	120,000
S&E occupations	2,289,000	226,000	5,000	519,000	164,000	S	1,320,000	54,000	2,007,000	282,000	2,028,000	261,000
29 and younger	566,000	78,000	D	126,000	38,000	D	302,000	19,000	478,000	87,000	502,000	64,000
30–39	746,000	80,000	1,000	183,000	50,000	D	413,000	20,000	658,000	89,000	617,000	129,000
40–49	483,000	35,000	S	130,000	32,000	D	278,000	7,000	438,000	45,000	427,000	56,000
50–75	494,000	33,000	S	80,000	44,000	D	327,000	9,000	433,000	61,000	482,000	12,000
Biological, agricultural, and other life scientists	356,000	28,000	D	70,000	15,000	D	232,000	10,000	304,000	51,000	314,000	42,000
29 and younger	96,000	9,000	D	12,000	6,000	D	65,000	3,000	70,000	S	88,000	8,000
30–39	114,000	12,000	D	24,000	3,000	D	71,000	4,000	100,000	14,000	94,000	20,000
40–49	68,000	3,000	D	18,000	4,000	D	42,000	2,000	65,000	4,000	56,000	12,000
50–75	78,000	4,000	D	16,000	2,000	D	54,000	S	70,000	8,000	75,000	2,000
Computer and mathematical scientists	1,112,000	94,000	D	318,000	91,000	D	583,000	24,000	989,000	123,000	959,000	153,000
29 and younger	231,000	32,000	D	71,000	20,000	D	100,000	9,000	202,000	29,000	191,000	41,000
30–39	373,000	33,000	D	114,000	32,000	D	186,000	8,000	329,000	44,000	296,000	77,000
40–49	242,000	10,000	D	87,000	15,000	D	127,000	3,000	221,000	21,000	213,000	29,000
50–75	265,000	20,000	D	46,000	25,000	D	171,000	S	237,000	29,000	259,000	S
Physical and related scientists	148,000	15,000	D	13,000	7,000	D	109,000	3,000	130,000	17,000	138,000	10,000
29 and younger	43,000	5,000	D	5,000	S	D	31,000	1,000	38,000	5,000	40,000	3,000
30–39	50,000	7,000	D	3,000	1,000	D	37,000	1,000	44,000	6,000	46,000	4,000
40–49	27,000	2,000	D	3,000	2,000	D	20,000	1,000	22,000	5,000	25,000	2,000
50–75	27,000	1,000	D	2,000	S	D	21,000	D	26,000	1,000	26,000	1,000

TABLE 2-3

Full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Number)

Sex assigned at birth, gender identity,[a] 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				
Social and related scientists	314,000	49,000	S	41,000	34,000	D	180,000	7,000	266,000	47,000	295,000	19,000
29 and younger	68,000	15,000	D	10,000	7,000	D	33,000	1,000	53,000	14,000	66,000	2,000
30–39	102,000	16,000	D	19,000	7,000	D	59,000	2,000	87,000	15,000	93,000	10,000
40–49	71,000	12,000	D	6,000	9,000	D	43,000	D	66,000	6,000	65,000	S
50–75	72,000	6,000	D	6,000	12,000	D	45,000	S	60,000	12,000	71,000	S
Engineers	361,000	40,000	2,000	77,000	16,000	D	216,000	10,000	318,000	43,000	323,000	37,000
29 and younger	128,000	17,000	D	29,000	4,000	D	73,000	5,000	114,000	14,000	117,000	11,000
30–39	107,000	12,000	D	23,000	6,000	D	59,000	5,000	98,000	9,000	87,000	19,000
40–49	75,000	8,000	D	16,000	3,000	D	47,000	1,000	65,000	10,000	68,000	7,000
50–75	51,000	3,000	D	9,000	3,000	D	36,000	D	41,000	11,000	51,000	S
S&E-related occupations	5,175,000	560,000	5,000	721,000	503,000	6,000	3,220,000	160,000	4,710,000	465,000	4,939,000	236,000
29 and younger	1,042,000	131,000	D	161,000	63,000	D	637,000	48,000	956,000	85,000	986,000	56,000
30–39	1,625,000	201,000	2,000	239,000	145,000	D	982,000	55,000	1,532,000	93,000	1,519,000	106,000
40–49	1,109,000	105,000	S	169,000	133,000	D	670,000	26,000	1,001,000	108,000	1,060,000	49,000
50–75	1,399,000	123,000	S	152,000	161,000	D	931,000	31,000	1,221,000	178,000	1,374,000	25,000
Non-S&E occupations	16,235,000	1,925,000	26,000	1,272,000	1,603,000	8,000	10,912,000	490,000	14,276,000	1,959,000	15,770,000	465,000
29 and younger	2,686,000	391,000	S	208,000	206,000	D	1,749,000	130,000	2,402,000	284,000	2,603,000	83,000
30–39	4,575,000	606,000	1,000	410,000	432,000	S	2,957,000	168,000	4,122,000	453,000	4,427,000	148,000
40–49	4,105,000	493,000	6,000	356,000	365,000	S	2,777,000	105,000	3,637,000	468,000	3,954,000	151,000
50–75	4,869,000	435,000	17,000	298,000	600,000	S	3,429,000	87,000	4,115,000	754,000	4,786,000	83,000
Male at birth	23,657,000	2,492,000	41,000	2,774,000	1,598,000	16,000	16,115,000	621,000	21,006,000	2,652,000	22,181,000	1,476,000
29 and younger	3,745,000	477,000	S	421,000	248,000	S	2,405,000	187,000	3,381,000	365,000	3,539,000	206,000
30–39	6,464,000	737,000	5,000	863,000	399,000	3,000	4,283,000	173,000	5,864,000	599,000	5,842,000	622,000
40–49	5,702,000	625,000	13,000	747,000	414,000	S	3,783,000	114,000	5,129,000	573,000	5,261,000	441,000
50–75	7,746,000	654,000	19,000	743,000	536,000	3,000	5,644,000	147,000	6,632,000	1,114,000	7,539,000	207,000
S&E occupations	5,796,000	559,000	6,000	1,129,000	298,000	6,000	3,638,000	161,000	5,215,000	582,000	5,103,000	693,000
29 and younger	1,222,000	149,000	D	228,000	52,000	D	734,000	55,000	1,107,000	116,000	1,090,000	133,000
30–39	1,807,000	199,000	S	380,000	99,000	S	1,076,000	49,000	1,652,000	155,000	1,489,000	318,000
40–49	1,301,000	111,000	D	297,000	84,000	D	775,000	34,000	1,175,000	126,000	1,123,000	178,000
50–75	1,465,000	100,000	1,000	224,000	64,000	1,000	1,053,000	23,000	1,280,000	185,000	1,401,000	64,000
Biological, agricultural, and other life scientists	373,000	42,000	*	65,000	12,000	D	248,000	5,000	320,000	53,000	315,000	58,000
29 and younger	76,000	13,000	D	10,000	2,000	D	50,000	S	62,000	14,000	70,000	7,000
30–39	119,000	19,000	D	26,000	6,000	D	66,000	2,000	100,000	S	85,000	34,000
40–49	79,000	4,000	D	12,000	1,000	D	61,000	S	69,000	11,000	67,000	13,000
50–75	99,000	6,000	D	18,000	3,000	D	72,000	D	89,000	9,000	94,000	4,000

TABLE 2-3

Full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Number)

Sex assigned at birth, gender identity,[a] 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				
Computer and mathematical scientists	3,211,000	298,000	S	728,000	191,000	2,000	1,895,000	93,000	2,890,000	320,000	2,770,000	440,000
29 and younger	669,000	72,000	D	155,000	36,000	D	367,000	37,000	612,000	57,000	586,000	83,000
30–39	1,004,000	112,000	D	235,000	54,000	D	572,000	28,000	914,000	90,000	812,000	192,000
40–49	787,000	63,000	D	222,000	58,000	D	425,000	18,000	713,000	74,000	656,000	131,000
50–75	751,000	50,000	D	116,000	43,000	D	531,000	10,000	652,000	99,000	717,000	34,000
Physical and related scientists	246,000	21,000	D	34,000	7,000	D	176,000	6,000	218,000	28,000	220,000	27,000
29 and younger	54,000	6,000	D	9,000	D	D	32,000	S	47,000	6,000	46,000	8,000
30–39	71,000	S	D	12,000	3,000	D	48,000	1,000	68,000	3,000	57,000	14,000
40–49	45,000	5,000	D	4,000	S	D	34,000	*	40,000	5,000	42,000	3,000
50–75	77,000	3,000	D	9,000	2,000	D	62,000	S	63,000	13,000	75,000	2,000
Social and related scientists	200,000	19,000	D	16,000	16,000	D	141,000	7,000	185,000	15,000	183,000	16,000
29 and younger	30,000	6,000	D	3,000	2,000	D	16,000	D	27,000	2,000	26,000	3,000
30–39	70,000	6,000	D	7,000	S	D	46,000	1,000	63,000	7,000	64,000	6,000
40–49	36,000	2,000	D	3,000	S	D	28,000	S	34,000	2,000	34,000	2,000
50–75	63,000	6,000	D	2,000	2,000	D	52,000	S	60,000	3,000	59,000	5,000
Engineers	1,766,000	178,000	S	285,000	72,000	S	1,177,000	50,000	1,601,000	165,000	1,614,000	152,000
29 and younger	394,000	52,000	D	50,000	12,000	D	269,000	11,000	358,000	35,000	362,000	32,000
30–39	543,000	56,000	*	100,000	24,000	D	345,000	18,000	507,000	36,000	471,000	72,000
40–49	354,000	36,000	D	56,000	22,000	D	227,000	12,000	319,000	34,000	325,000	29,000
50–75	475,000	35,000	D	79,000	14,000	D	336,000	10,000	416,000	60,000	456,000	19,000
S&E-related occupations	4,161,000	422,000	5,000	712,000	255,000	3,000	2,633,000	131,000	3,721,000	439,000	3,892,000	269,000
29 and younger	634,000	88,000	D	93,000	26,000	D	403,000	23,000	573,000	61,000	600,000	34,000
30–39	1,210,000	135,000	S	192,000	89,000	D	747,000	44,000	1,105,000	105,000	1,092,000	118,000
40–49	991,000	86,000	S	194,000	62,000	D	620,000	25,000	903,000	88,000	917,000	74,000
50–75	1,326,000	114,000	1,000	233,000	77,000	D	862,000	38,000	1,141,000	186,000	1,283,000	43,000
Non-S&E occupations	13,700,000	1,511,000	30,000	933,000	1,045,000	7,000	9,844,000	330,000	12,070,000	1,631,000	13,186,000	514,000
29 and younger	1,889,000	240,000	D	100,000	170,000	D	1,268,000	109,000	1,701,000	188,000	1,849,000	40,000
30–39	3,447,000	403,000	1,000	292,000	211,000	D	2,459,000	80,000	3,107,000	340,000	3,262,000	185,000
40–49	3,410,000	428,000	S	256,000	269,000	D	2,387,000	55,000	3,051,000	360,000	3,221,000	189,000
50–75	4,954,000	441,000	17,000	285,000	395,000	S	3,729,000	86,000	4,211,000	744,000	4,855,000	99,000
Female gender identity	23,598,000	2,699,000	36,000	2,502,000	2,268,000	15,000	15,381,000	697,000	20,930,000	2,669,000	22,641,000	958,000
29 and younger	4,244,000	596,000	4,000	485,000	304,000	S	2,664,000	190,000	3,797,000	447,000	4,047,000	197,000
30–39	6,904,000	882,000	5,000	832,000	625,000	S	4,314,000	242,000	6,289,000	615,000	6,520,000	384,000
40–49	5,687,000	630,000	8,000	655,000	530,000	8,000	3,718,000	138,000	5,068,000	620,000	5,430,000	257,000
50–75	6,763,000	590,000	19,000	530,000	809,000	S	4,684,000	127,000	5,777,000	987,000	6,643,000	120,000

TABLE 2-3

Full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Number)

Sex assigned at birth, gender identity,[a] 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				
S&E occupations	2,278,000	224,000	5,000	519,000	161,000	S	1,314,000	55,000	1,999,000	279,000	2,016,000	262,000
29 and younger	559,000	78,000	D	125,000	35,000	D	299,000	19,000	473,000	86,000	495,000	64,000
30–39	746,000	79,000	S	183,000	50,000	D	412,000	20,000	657,000	89,000	616,000	130,000
40–49	481,000	34,000	S	130,000	32,000	D	276,000	7,000	437,000	44,000	424,000	57,000
50–75	492,000	33,000	S	80,000	44,000	D	326,000	9,000	432,000	61,000	481,000	12,000
Biological, agricultural, and other life scientists	353,000	28,000	D	70,000	13,000	D	231,000	10,000	303,000	49,000	311,000	42,000
29 and younger	93,000	9,000	D	12,000	4,000	D	64,000	3,000	69,000	S	85,000	8,000
30–39	114,000	12,000	D	24,000	3,000	D	71,000	4,000	100,000	14,000	94,000	20,000
40–49	68,000	3,000	D	18,000	4,000	D	41,000	2,000	64,000	4,000	56,000	12,000
50–75	78,000	4,000	D	16,000	2,000	D	54,000	S	70,000	8,000	75,000	2,000
Computer and mathematical scientists	1,104,000	93,000	D	317,000	91,000	D	577,000	25,000	983,000	121,000	950,000	153,000
29 and younger	228,000	32,000	D	70,000	20,000	D	97,000	9,000	200,000	28,000	187,000	41,000
30–39	373,000	33,000	D	114,000	32,000	D	186,000	8,000	328,000	44,000	296,000	77,000
40–49	239,000	9,000	D	87,000	15,000	D	124,000	3,000	219,000	19,000	210,000	29,000
50–75	264,000	20,000	D	46,000	25,000	D	169,000	S	236,000	29,000	258,000	S
Physical and related scientists	147,000	15,000	D	13,000	7,000	D	109,000	2,000	130,000	17,000	137,000	10,000
29 and younger	42,000	5,000	D	5,000	S	D	30,000	*	38,000	4,000	39,000	3,000
30–39	50,000	7,000	D	3,000	1,000	D	37,000	1,000	44,000	6,000	46,000	4,000
40–49	27,000	2,000	D	3,000	2,000	D	20,000	1,000	22,000	5,000	25,000	2,000
50–75	27,000	1,000	D	2,000	S	D	21,000	D	26,000	1,000	26,000	1,000
Social and related scientists	312,000	49,000	S	41,000	33,000	D	180,000	7,000	265,000	47,000	293,000	19,000
29 and younger	66,000	14,000	D	10,000	6,000	D	33,000	1,000	52,000	14,000	65,000	2,000
30–39	102,000	16,000	D	19,000	7,000	D	58,000	2,000	87,000	15,000	93,000	10,000
40–49	71,000	12,000	D	6,000	9,000	D	43,000	D	66,000	6,000	65,000	S
50–75	72,000	6,000	D	6,000	12,000	D	45,000	S	60,000	12,000	71,000	S
Engineers	363,000	40,000	2,000	77,000	16,000	D	217,000	11,000	318,000	45,000	325,000	38,000
29 and younger	129,000	17,000	D	28,000	4,000	D	75,000	5,000	114,000	16,000	119,000	10,000
30–39	107,000	12,000	D	24,000	6,000	D	59,000	5,000	98,000	9,000	88,000	19,000
40–49	76,000	8,000	D	16,000	3,000	D	47,000	1,000	66,000	10,000	68,000	8,000
50–75	51,000	3,000	D	9,000	3,000	D	36,000	D	40,000	11,000	51,000	S
S&E-related occupations	5,159,000	559,000	5,000	721,000	503,000	6,000	3,205,000	160,000	4,708,000	451,000	4,923,000	236,000
29 and younger	1,036,000	130,000	D	162,000	63,000	D	631,000	48,000	953,000	82,000	980,000	55,000
30–39	1,615,000	201,000	2,000	239,000	145,000	D	972,000	55,000	1,530,000	85,000	1,508,000	106,000
40–49	1,111,000	105,000	S	169,000	133,000	D	672,000	26,000	1,003,000	108,000	1,062,000	49,000
50–75	1,397,000	123,000	S	152,000	161,000	D	929,000	31,000	1,222,000	176,000	1,372,000	25,000

TABLE 2-3

Full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Number)

Sex assigned at birth, gender identity,[a] 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	16,161,000	1,916,000	26,000	1,262,000	1,604,000	8,000	10,862,000	483,000	14,223,000	1,939,000	15,702,000	459,000
29 and younger	2,650,000	388,000	S	198,000	205,000	D	1,734,000	123,000	2,370,000	280,000	2,572,000	77,000
30–39	4,543,000	601,000	1,000	410,000	430,000	S	2,930,000	168,000	4,102,000	441,000	4,395,000	148,000
40–49	4,095,000	492,000	6,000	356,000	365,000	S	2,769,000	105,000	3,628,000	468,000	3,944,000	151,000
50–75	4,873,000	435,000	17,000	298,000	604,000	S	3,429,000	88,000	4,123,000	750,000	4,790,000	83,000
Male gender identity	23,561,000	2,480,000	41,000	2,769,000	1,592,000	16,000	16,045,000	619,000	20,964,000	2,598,000	22,086,000	1,475,000
29 and younger	3,697,000	474,000	S	418,000	247,000	S	2,365,000	187,000	3,369,000	328,000	3,491,000	206,000
30–39	6,430,000	733,000	5,000	862,000	398,000	3,000	4,257,000	172,000	5,844,000	586,000	5,808,000	622,000
40–49	5,690,000	619,000	13,000	747,000	414,000	S	3,776,000	114,000	5,124,000	567,000	5,250,000	440,000
50–75	7,744,000	654,000	19,000	743,000	532,000	3,000	5,647,000	146,000	6,627,000	1,117,000	7,537,000	207,000
S&E occupations	5,776,000	557,000	6,000	1,128,000	298,000	6,000	3,622,000	159,000	5,203,000	573,000	5,084,000	692,000
29 and younger	1,216,000	149,000	D	228,000	52,000	D	729,000	55,000	1,104,000	113,000	1,084,000	132,000
30–39	1,793,000	198,000	S	379,000	98,000	S	1,065,000	48,000	1,644,000	149,000	1,475,000	318,000
40–49	1,301,000	110,000	D	297,000	84,000	D	775,000	34,000	1,175,000	127,000	1,124,000	177,000
50–75	1,466,000	100,000	1,000	224,000	64,000	1,000	1,054,000	23,000	1,281,000	185,000	1,402,000	64,000
Biological, agricultural, and other life scientists	371,000	42,000	*	65,000	12,000	D	247,000	5,000	320,000	51,000	313,000	58,000
29 and younger	76,000	13,000	D	10,000	2,000	D	50,000	S	62,000	14,000	70,000	7,000
30–39	117,000	19,000	D	26,000	6,000	D	64,000	2,000	100,000	S	83,000	34,000
40–49	79,000	4,000	D	12,000	1,000	D	61,000	S	68,000	11,000	67,000	13,000
50–75	99,000	6,000	D	18,000	3,000	D	72,000	D	89,000	9,000	94,000	4,000
Computer and mathematical scientists	3,201,000	297,000	S	728,000	190,000	2,000	1,888,000	92,000	2,884,000	317,000	2,761,000	440,000
29 and younger	666,000	72,000	D	155,000	36,000	D	365,000	37,000	610,000	56,000	583,000	83,000
30–39	994,000	111,000	D	235,000	54,000	D	565,000	28,000	908,000	87,000	803,000	192,000
40–49	788,000	63,000	D	222,000	58,000	D	426,000	18,000	713,000	75,000	657,000	131,000
50–75	752,000	50,000	D	116,000	43,000	D	531,000	10,000	653,000	99,000	718,000	34,000
Physical and related scientists	246,000	21,000	D	34,000	7,000	D	176,000	6,000	218,000	28,000	220,000	27,000
29 and younger	54,000	6,000	D	9,000	D	D	32,000	S	48,000	6,000	46,000	8,000
30–39	71,000	S	D	12,000	3,000	D	47,000	1,000	68,000	3,000	57,000	14,000
40–49	45,000	5,000	D	4,000	S	D	34,000	*	40,000	5,000	42,000	3,000
50–75	77,000	3,000	D	9,000	2,000	D	62,000	S	63,000	13,000	75,000	2,000
Social and related scientists	198,000	19,000	D	16,000	16,000	D	140,000	7,000	185,000	13,000	182,000	16,000
29 and younger	30,000	6,000	D	3,000	2,000	D	16,000	D	27,000	2,000	26,000	3,000
30–39	69,000	6,000	D	7,000	S	D	44,000	1,000	63,000	6,000	63,000	6,000
40–49	36,000	2,000	D	3,000	S	D	28,000	S	34,000	2,000	34,000	2,000
50–75	63,000	6,000	D	2,000	2,000	D	52,000	S	60,000	3,000	58,000	5,000

TABLE 2-3

Full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Number)

Sex assigned at birth, gender identity,[a] 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				
Engineers	1,760,000	179,000	S	285,000	72,000	S	1,171,000	50,000	1,596,000	163,000	1,609,000	151,000
29 and younger	391,000	52,000	D	51,000	12,000	D	266,000	11,000	357,000	33,000	358,000	32,000
30–39	541,000	56,000	*	99,000	24,000	D	343,000	17,000	505,000	36,000	469,000	72,000
40–49	353,000	36,000	D	56,000	22,000	D	226,000	12,000	319,000	34,000	325,000	28,000
50–75	475,000	35,000	D	79,000	14,000	D	336,000	10,000	416,000	60,000	456,000	19,000
S&E-related occupations	4,140,000	422,000	5,000	709,000	255,000	3,000	2,616,000	130,000	3,707,000	433,000	3,871,000	269,000
29 and younger	627,000	88,000	D	90,000	26,000	D	399,000	23,000	571,000	57,000	593,000	34,000
30–39	1,204,000	135,000	S	191,000	89,000	D	743,000	44,000	1,100,000	104,000	1,086,000	118,000
40–49	985,000	86,000	S	194,000	62,000	D	615,000	25,000	898,000	87,000	912,000	74,000
50–75	1,323,000	114,000	1,000	233,000	77,000	D	859,000	38,000	1,137,000	186,000	1,280,000	43,000
Non-S&E occupations	13,645,000	1,501,000	30,000	932,000	1,039,000	7,000	9,807,000	329,000	12,054,000	1,591,000	13,131,000	514,000
29 and younger	1,853,000	237,000	D	100,000	169,000	D	1,237,000	109,000	1,695,000	159,000	1,813,000	40,000
30–39	3,433,000	400,000	1,000	291,000	211,000	D	2,449,000	80,000	3,100,000	333,000	3,248,000	185,000
40–49	3,404,000	423,000	S	256,000	268,000	D	2,386,000	55,000	3,051,000	353,000	3,214,000	189,000
50–75	4,955,000	441,000	17,000	285,000	391,000	S	3,735,000	85,000	4,209,000	746,000	4,856,000	99,000
Transgender identity	93,000	S	D	S	2,000	D	55,000	S	60,000	33,000	92,000	1,000
29 and younger	34,000	2,000	D	S	D	D	10,000	D	28,000	5,000	33,000	1,000
30–39	35,000	S	D	1,000	S	D	29,000	1,000	17,000	17,000	35,000	D
40–49	20,000	D	D	D	D	D	13,000	D	S	S	20,000	D
50–75	S	D	D	D	D	D	S	D	S	D	S	D
S&E occupations	23,000	3,000	D	1,000	D	D	16,000	2,000	15,000	8,000	23,000	D
29 and younger	8,000	S	D	D	D	D	6,000	D	6,000	2,000	8,000	D
30–39	9,000	D	D	D	D	D	6,000	D	5,000	S	9,000	D
40–49	5,000	D	D	D	D	D	4,000	D	S	S	5,000	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Biological, agricultural, and other life scientists	S	D	D	D	D	D	S	D	1,000	D	S	D
29 and younger	S	D	D	D	D	D	D	D	D	D	S	D
30–39	S	D	D	D	D	D	D	D	D	D	S	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Computer and mathematical scientists	15,000	S	D	S	D	D	10,000	S	11,000	4,000	14,000	D
29 and younger	6,000	D	D	D	D	D	5,000	D	4,000	2,000	6,000	D
30–39	4,000	D	D	D	D	D	S	D	S	S	4,000	D
40–49	4,000	D	D	D	D	D	D	D	D	D	4,000	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D

TABLE 2-3

Full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Number)

Sex assigned at birth, gender identity,[a] 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				
Physical and related scientists	1,000	D	D	D	D	D	*	D	1,000	D	1,000	D
29 and younger	D	D	D	D	D	D	D	D	D	D	D	D
30–39	D	D	D	D	D	D	D	D	D	D	D	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Social and related scientists	D	D	D	D	D	D	D	D	D	D	D	D
29 and younger	D	D	D	D	D	D	D	D	D	D	D	D
30–39	D	D	D	D	D	D	D	D	D	D	D	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Engineers	3,000	D	D	D	D	D	S	D	3,000	D	3,000	D
29 and younger	D	D	D	D	D	D	D	D	D	D	D	D
30–39	S	D	D	D	D	D	S	D	S	D	S	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
S&E-related occupations	14,000	D	D	S	D	D	9,000	D	11,000	3,000	14,000	D
29 and younger	6,000	D	D	D	D	D	2,000	D	S	1,000	S	D
30–39	4,000	D	D	S	D	D	S	D	3,000	D	4,000	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Non-S&E occupations	56,000	S	D	S	S	D	30,000	S	34,000	22,000	56,000	D
29 and younger	S	D	D	D	D	D	S	D	S	2,000	S	D
30–39	21,000	D	D	D	D	D	20,000	D	9,000	12,000	21,000	D
40–49	S	D	D	D	D	D	D	D	D	D	S	D
50–75	S	D	D	D	D	D	D	D	D	D	S	D
Different term used for gender identity	199,000	23,000	D	20,000	6,000	D	139,000	S	123,000	76,000	193,000	S
29 and younger	107,000	12,000	D	S	5,000	D	65,000	S	60,000	S	102,000	D
30–39	69,000	10,000	D	S	S	D	54,000	S	44,000	25,000	69,000	D
40–49	S	S	D	D	D	D	S	D	S	1,000	S	D
50–75	10,000	D	D	D	D	D	10,000	D	S	D	10,000	D
S&E occupations	38,000	7,000	D	S	S	D	21,000	1,000	27,000	11,000	38,000	D
29 and younger	22,000	S	D	S	D	D	9,000	D	16,000	7,000	22,000	D
30–39	13,000	S	D	D	D	D	11,000	D	10,000	3,000	13,000	D
40–49	S	D	D	D	D	D	D	D	S	D	S	D
50–75	1,000	D	D	D	D	D	1,000	D	1,000	D	1,000	D

TABLE 2-3

Full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Number)

Sex assigned at birth, gender identity,[a] 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	5,000	D	D	D	D	D	2,000	D	2,000	S	5,000	D
29 and younger	S	D	D	D	D	D	1,000	D	1,000	D	S	D
30–39	1,000	D	D	D	D	D	S	D	S	D	1,000	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Computer and mathematical scientists	19,000	D	D	S	D	D	15,000	D	14,000	4,000	19,000	D
29 and younger	8,000	D	D	D	D	D	6,000	D	7,000	1,000	8,000	D
30–39	9,000	D	D	D	D	D	8,000	D	7,000	S	9,000	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Physical and related scientists	1,000	D	D	D	D	D	D	D	1,000	D	1,000	D
29 and younger	1,000	D	D	D	D	D	D	D	D	D	1,000	D
30–39	D	D	D	D	D	D	D	D	D	D	D	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Social and related scientists	3,000	D	D	D	D	D	2,000	D	2,000	S	3,000	D
29 and younger	D	D	D	D	D	D	D	D	D	D	D	D
30–39	2,000	D	D	D	D	D	2,000	D	S	D	2,000	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Engineers	S	D	D	D	D	D	S	D	S	D	S	D
29 and younger	S	D	D	D	D	D	D	D	S	D	S	D
30–39	*	D	D	D	D	D	*	D	D	D	*	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
S&E-related occupations	35,000	2,000	D	3,000	D	D	29,000	D	16,000	19,000	35,000	D
29 and younger	14,000	1,000	D	S	D	D	11,000	D	6,000	S	14,000	D
30–39	S	D	D	D	D	D	S	D	S	D	S	D
40–49	S	D	D	D	D	D	S	D	D	D	S	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Non-S&E occupations	126,000	14,000	D	S	3,000	D	89,000	S	80,000	S	120,000	D
29 and younger	71,000	6,000	D	S	S	D	S	S	39,000	S	65,000	D
30–39	42,000	S	D	D	S	D	31,000	D	28,000	14,000	42,000	D
40–49	S	D	D	D	D	D	D	D	S	D	S	D
50–75	S	D	D	D	D	D	D	D	S	D	S	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.

[a] Gender identity estimates are tabulated based on "mark all that apply" responses to the following question, "How do you currently describe yourself? 1. Male, 2. Female, 3. Transgender, and 4. I use a different term." Thus, these four gender identity categories are not mutually exclusive.

Note(s):
Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding and multiple response options for the gender identity question. 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, 2023.

TABLE 2-4

Employed college graduates, by minor occupation and major field of highest degree: 2023

(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 occupations	56,061,000	17,566,000	2,721,000	3,563,000	953,000	6,059,000	4,270,000	8,556,000	29,939,000
S&E occupations	8,711,000	6,518,000	755,000	2,110,000	476,000	738,000	2,438,000	534,000	1,660,000
Biological, agricultural, and other life scientists	813,000	633,000	516,000	10,000	56,000	18,000	34,000	112,000	67,000
Agricultural and food scientists	74,000	64,000	52,000	D	5,000	D	S	S	8,000
Biological and medical scientists	552,000	431,000	351,000	6,000	37,000	10,000	27,000	86,000	35,000
Environmental life scientists	60,000	47,000	32,000	D	D	S	D	D	12,000
Postsecondary teachers - life and related sciences	127,000	91,000	82,000	D	5,000	4,000	S	23,000	12,000
Computer and mathematical scientists	4,573,000	3,144,000	95,000	1,989,000	89,000	323,000	648,000	251,000	1,178,000
Computer and information scientists	4,154,000	2,843,000	71,000	1,807,000	74,000	273,000	618,000	223,000	1,087,000
Mathematical scientists	318,000	211,000	21,000	102,000	14,000	49,000	25,000	24,000	83,000
Postsecondary teachers - computer and math sciences	101,000	89,000	S	80,000	S	D	5,000	4,000	7,000
Physical and related scientists	430,000	400,000	90,000	6,000	267,000	11,000	26,000	13,000	18,000
Chemists, except biochemists	129,000	123,000	34,000	D	82,000	S	6,000	2,000	4,000
Earth, atmospheric, and ocean scientists	143,000	128,000	30,000	4,000	80,000	5,000	9,000	5,000	10,000
Physicists	45,000	42,000	D	D	36,000	D	4,000	3,000	S
Other physical and related scientists, including astronomers	45,000	41,000	16,000	S	13,000	5,000	5,000	2,000	1,000
Postsecondary teachers - physical and related sciences	69,000	66,000	8,000	D	55,000	S	2,000	S	2,000
Social and related scientists	631,000	395,000	16,000	11,000	2,000	363,000	3,000	51,000	185,000
Economists	47,000	34,000	1,000	1,000	D	32,000	D	S	11,000
Political scientists	38,000	28,000	D	D	D	26,000	D	D	S
Psychologists	132,000	113,000	6,000	1,000	D	104,000	D	S	14,000
Anthropologists	14,000	12,000	D	D	D	12,000	D	D	2,000
Sociologists	20,000	17,000	D	D	D	15,000	D	D	3,000
Other social and related scientists	178,000	64,000	4,000	S	D	51,000	S	40,000	73,000
Postsecondary teachers - social and related sciences	202,000	127,000	2,000	*	D	124,000	D	4,000	71,000
Engineers	2,263,000	1,946,000	38,000	95,000	62,000	23,000	1,728,000	106,000	212,000
Aerospace, aeronautical, and astronautical engineers	181,000	160,000	D	4,000	10,000	D	145,000	8,000	13,000
Chemical engineers	80,000	76,000	1,000	D	2,000	D	73,000	S	2,000
Civil, architectural, and sanitary engineers	324,000	291,000	S	S	2,000	1,000	284,000	11,000	22,000
Electrical and computer hardware engineers	501,000	446,000	S	45,000	11,000	2,000	388,000	20,000	34,000
Industrial engineers	107,000	78,000	4,000	5,000	4,000	D	64,000	11,000	18,000
Mechanical engineers	424,000	384,000	D	S	S	D	378,000	20,000	19,000
Other engineers	581,000	453,000	30,000	35,000	29,000	15,000	344,000	31,000	97,000
Postsecondary teachers - engineering	66,000	57,000	D	S	3,000	D	51,000	2,000	6,000
S&E-related occupations	11,253,000	2,955,000	760,000	524,000	166,000	688,000	818,000	6,204,000	2,093,000

TABLE 2-4

Employed college graduates, by minor occupation and major field of highest degree: 2023

(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		
Health-related occupations	7,102,000	997,000	436,000	26,000	40,000	468,000	28,000	5,208,000	897,000
S&E managers	1,485,000	666,000	92,000	153,000	37,000	97,000	287,000	417,000	402,000
S&E precollege teachers	793,000	179,000	51,000	56,000	16,000	45,000	12,000	225,000	389,000
S&E technicians and technologists	1,581,000	1,067,000	177,000	265,000	70,000	75,000	480,000	152,000	362,000
Other S&E-related occupations	291,000	46,000	S	24,000	S	4,000	12,000	203,000	42,000
Non-S&E occupations	36,097,000	8,093,000	1,206,000	928,000	311,000	4,634,000	1,014,000	1,818,000	26,186,000
Non-S&E managers	6,016,000	1,613,000	235,000	225,000	73,000	679,000	402,000	378,000	4,025,000
Management-related occupations	6,165,000	1,408,000	147,000	199,000	34,000	820,000	209,000	260,000	4,498,000
Non-S&E precollege teachers	4,083,000	397,000	49,000	40,000	22,000	265,000	20,000	189,000	3,497,000
Non-S&E postsecondary teachers	601,000	70,000	3,000	15,000	2,000	46,000	4,000	41,000	489,000
Social services and related occupations	2,462,000	642,000	22,000	15,000	7,000	588,000	9,000	129,000	1,692,000
Sales and marketing occupations	4,560,000	1,038,000	171,000	102,000	39,000	619,000	107,000	246,000	3,277,000
Art, humanities, and related occupations	1,671,000	235,000	39,000	22,000	12,000	150,000	13,000	55,000	1,381,000
Other non-S&E occupations	10,539,000	2,691,000	540,000	312,000	122,000	1,468,000	250,000	521,000	7,327,000

* = 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, 2023.

TABLE 2-5

Employed college graduates, by major occupation, sex assigned at birth, gender identity, ethnicity, race, disability status, and detailed employment sector: 2023

(Number)

Occupation, sex assigned at birth, gender identity,[a] ethnicity, race, and disability status	Total	Business or industry				Education			Government		
		Business or industry, total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Education, total	4-year educational institution[b]	2-year college or precollege educational institution	Government, total	Federal government[c]	State or local government
All occupations	56,061,000	39,308,000	30,562,000	5,563,000	3,182,000	10,688,000	3,569,000	7,119,000	6,065,000	2,308,000	3,757,000
Female at birth	29,603,000	18,956,000	13,503,000	3,870,000	1,582,000	7,471,000	2,075,000	5,396,000	3,176,000	1,016,000	2,160,000
Male at birth	26,458,000	20,352,000	17,059,000	1,693,000	1,600,000	3,217,000	1,494,000	1,723,000	2,889,000	1,292,000	1,597,000
Female gender identity	29,454,000	18,863,000	13,450,000	3,834,000	1,579,000	7,422,000	2,041,000	5,381,000	3,169,000	1,020,000	2,149,000
Male gender identity	26,360,000	20,275,000	16,995,000	1,687,000	1,593,000	3,204,000	1,486,000	1,719,000	2,880,000	1,286,000	1,594,000
Transgender identity	102,000	69,000	43,000	22,000	S	29,000	25,000	4,000	5,000	3,000	2,000
Different term used for gender identity	256,000	171,000	123,000	39,000	S	59,000	38,000	S	26,000	S	19,000
Hispanic or Latino	6,016,000	3,810,000	3,004,000	512,000	294,000	1,273,000	422,000	851,000	933,000	356,000	577,000
Not Hispanic or Latino											
American Indian or Alaska Native	112,000	57,000	41,000	10,000	S	19,000	4,000	14,000	36,000	3,000	33,000
Asian	6,134,000	4,734,000	3,965,000	568,000	201,000	897,000	550,000	347,000	503,000	196,000	307,000
Black or African American	4,523,000	2,704,000	2,055,000	500,000	148,000	887,000	238,000	650,000	932,000	348,000	584,000
Native Hawaiian or Other Pacific Islander	42,000	23,000	16,000	6,000	D	13,000	7,000	S	6,000	4,000	3,000
White	37,670,000	26,906,000	20,661,000	3,814,000	2,431,000	7,309,000	2,218,000	5,090,000	3,456,000	1,326,000	2,130,000
More than one race	1,564,000	1,074,000	819,000	153,000	103,000	291,000	130,000	161,000	200,000	75,000	125,000
Without disability	49,379,000	34,732,000	27,005,000	4,992,000	2,734,000	9,379,000	3,127,000	6,251,000	5,269,000	1,985,000	3,284,000
With disability	6,682,000	4,576,000	3,557,000	571,000	448,000	1,309,000	442,000	868,000	796,000	323,000	473,000
S&E occupations	8,711,000	6,517,000	5,905,000	443,000	170,000	1,234,000	1,058,000	176,000	960,000	516,000	444,000
Female at birth	2,586,000	1,692,000	1,433,000	195,000	64,000	542,000	465,000	78,000	351,000	185,000	166,000
Male at birth	6,126,000	4,825,000	4,472,000	248,000	106,000	692,000	594,000	98,000	609,000	331,000	278,000
Female gender identity	2,566,000	1,686,000	1,427,000	195,000	64,000	527,000	450,000	77,000	352,000	187,000	165,000
Male gender identity	6,108,000	4,813,000	4,460,000	247,000	106,000	692,000	594,000	98,000	604,000	328,000	276,000
Transgender identity	30,000	15,000	14,000	S	D	13,000	13,000	D	2,000	1,000	D
Different term used for gender identity	44,000	20,000	19,000	1,000	D	17,000	16,000	D	7,000	1,000	S
Hispanic or Latino	851,000	614,000	553,000	38,000	23,000	129,000	104,000	25,000	108,000	49,000	59,000
Not Hispanic or Latino											
American Indian or Alaska Native	12,000	7,000	7,000	D	D	S	S	D	S	D	S
Asian	1,771,000	1,394,000	1,297,000	81,000	17,000	258,000	240,000	18,000	119,000	63,000	55,000
Black or African American	487,000	326,000	292,000	26,000	8,000	71,000	52,000	20,000	90,000	52,000	38,000
Native Hawaiian or Other Pacific Islander	7,000	4,000	2,000	D	D	S	S	D	D	D	D
White	5,353,000	4,015,000	3,608,000	287,000	120,000	740,000	634,000	106,000	598,000	339,000	260,000
More than one race	230,000	156,000	145,000	9,000	1,000	31,000	24,000	8,000	42,000	12,000	30,000
Without disability	7,760,000	5,849,000	5,332,000	373,000	144,000	1,054,000	901,000	153,000	857,000	465,000	392,000
With disability	951,000	668,000	573,000	69,000	26,000	180,000	157,000	23,000	103,000	51,000	52,000
Biological, agricultural, and other life scientists	813,000	357,000	281,000	67,000	8,000	326,000	306,000	20,000	131,000	61,000	70,000

TABLE 2-5

Employed college graduates, by major occupation, sex assigned at birth, gender identity, ethnicity, race, disability status, and detailed employment sector: 2023

(Number)

Occupation, sex assigned at birth, gender identity,[a] ethnicity, race, and disability status	Total	Business or industry				Education			Government		
		Business or industry, total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Education, total	4-year educational institution[b]	2-year college or precollege educational institution	Government, total	Federal government[c]	State or local government
Female at birth	405,000	161,000	131,000	28,000	3,000	167,000	156,000	11,000	76,000	34,000	42,000
Male at birth	408,000	196,000	150,000	40,000	6,000	158,000	150,000	8,000	54,000	26,000	28,000
Female gender identity	400,000	160,000	130,000	27,000	S	164,000	153,000	11,000	76,000	34,000	42,000
Male gender identity	406,000	195,000	150,000	40,000	6,000	157,000	149,000	8,000	54,000	26,000	28,000
Transgender identity	S	D	D	D	D	S	S	D	D	D	D
Different term used for gender identity	6,000	1,000	1,000	D	D	S	S	D	1,000	D	S
Hispanic or Latino	78,000	37,000	33,000	3,000	D	33,000	31,000	2,000	8,000	3,000	5,000
Not Hispanic or Latino											
American Indian or Alaska Native	*	D	D	D	D	D	D	D	*	D	D
Asian	148,000	74,000	61,000	12,000	D	60,000	59,000	1,000	14,000	11,000	3,000
Black or African American	30,000	16,000	15,000	D	D	10,000	10,000	D	4,000	2,000	2,000
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D	D	D	D	D	D
White	541,000	225,000	167,000	50,000	7,000	216,000	201,000	14,000	100,000	42,000	58,000
More than one race	16,000	6,000	5,000	D	D	7,000	6,000	D	4,000	2,000	2,000
Without disability	695,000	310,000	254,000	48,000	8,000	269,000	253,000	16,000	116,000	56,000	60,000
With disability	118,000	46,000	27,000	S	D	57,000	54,000	3,000	15,000	4,000	10,000
Computer and mathematical scientists	4,573,000	3,894,000	3,542,000	262,000	91,000	329,000	243,000	87,000	350,000	187,000	163,000
Female at birth	1,214,000	997,000	858,000	108,000	32,000	98,000	72,000	26,000	119,000	70,000	49,000
Male at birth	3,360,000	2,897,000	2,684,000	153,000	59,000	232,000	171,000	61,000	231,000	117,000	114,000
Female gender identity	1,206,000	994,000	853,000	109,000	32,000	94,000	69,000	26,000	118,000	69,000	48,000
Male gender identity	3,348,000	2,889,000	2,678,000	152,000	59,000	230,000	170,000	61,000	229,000	117,000	112,000
Transgender identity	16,000	11,000	10,000	D	D	4,000	4,000	D	D	D	D
Different term used for gender identity	19,000	12,000	11,000	D	D	S	S	D	D	D	D
Hispanic or Latino	425,000	343,000	303,000	24,000	17,000	39,000	24,000	16,000	42,000	21,000	20,000
Not Hispanic or Latino											
American Indian or Alaska Native	4,000	4,000	4,000	D	D	D	D	D	D	D	D
Asian	1,107,000	979,000	912,000	57,000	10,000	76,000	68,000	8,000	52,000	26,000	26,000
Black or African American	294,000	220,000	200,000	17,000	S	21,000	14,000	7,000	53,000	36,000	17,000
Native Hawaiian or Other Pacific Islander	2,000	2,000	1,000	D	D	D	D	D	D	D	D
White	2,620,000	2,252,000	2,033,000	158,000	60,000	186,000	132,000	54,000	182,000	101,000	81,000
More than one race	122,000	94,000	88,000	6,000	D	7,000	5,000	D	S	2,000	S
Without disability	4,099,000	3,510,000	3,211,000	225,000	74,000	282,000	209,000	73,000	307,000	167,000	140,000
With disability	475,000	384,000	331,000	37,000	16,000	47,000	34,000	14,000	43,000	20,000	23,000
Physical and related scientists	430,000	189,000	170,000	11,000	8,000	139,000	131,000	8,000	102,000	54,000	48,000
Female at birth	160,000	74,000	66,000	6,000	S	44,000	39,000	5,000	42,000	18,000	24,000

TABLE 2-5

Employed college graduates, by major occupation, sex assigned at birth, gender identity, ethnicity, race, disability status, and detailed employment sector: 2023

(Number)

Occupation, sex assigned at birth, gender identity,[a] ethnicity, race, and disability status	Total	Business or industry				Education			Government		
		Business or industry, total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Education, total	4-year educational institution[b]	2-year college or precollege educational institution	Government, total	Federal government[c]	State or local government
Male at birth	270,000	115,000	104,000	6,000	5,000	95,000	92,000	3,000	60,000	36,000	24,000
Female gender identity	159,000	74,000	65,000	5,000	S	44,000	39,000	5,000	42,000	18,000	24,000
Male gender identity	270,000	115,000	104,000	6,000	5,000	95,000	92,000	3,000	60,000	36,000	24,000
Transgender identity	1,000	1,000	1,000	D	D	D	D	D	D	D	D
Different term used for gender identity	1,000	1,000	D	D	D	D	D	D	D	D	D
Hispanic or Latino	38,000	14,000	13,000	1,000	D	14,000	13,000	1,000	11,000	3,000	S
Not Hispanic or Latino											
American Indian or Alaska Native	D	D	D	D	D	D	D	D	D	D	D
Asian	53,000	18,000	17,000	1,000	D	29,000	28,000	S	6,000	2,000	5,000
Black or African American	15,000	8,000	6,000	D	D	2,000	2,000	D	5,000	3,000	S
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D	D	D	D	D	D
White	311,000	146,000	131,000	9,000	6,000	87,000	80,000	6,000	78,000	45,000	33,000
More than one race	10,000	3,000	3,000	D	D	S	S	D	3,000	1,000	S
Without disability	380,000	172,000	154,000	10,000	8,000	118,000	112,000	7,000	90,000	48,000	42,000
With disability	51,000	17,000	15,000	S	D	21,000	19,000	2,000	13,000	6,000	7,000
Social and related scientists	631,000	221,000	138,000	58,000	24,000	311,000	257,000	54,000	99,000	42,000	57,000
Female at birth	398,000	150,000	86,000	44,000	19,000	201,000	166,000	35,000	47,000	16,000	31,000
Male at birth	233,000	71,000	52,000	14,000	5,000	109,000	91,000	19,000	52,000	26,000	26,000
Female gender identity	390,000	149,000	85,000	44,000	19,000	194,000	159,000	35,000	47,000	16,000	31,000
Male gender identity	235,000	71,000	52,000	14,000	5,000	112,000	93,000	19,000	52,000	26,000	26,000
Transgender identity	S	D	D	D	D	D	D	D	D	D	D
Different term used for gender identity	7,000	D	D	D	D	S	S	D	*	D	D
Hispanic or Latino	84,000	37,000	30,000	6,000	S	32,000	27,000	5,000	16,000	3,000	13,000
Not Hispanic or Latino											
American Indian or Alaska Native	S	D	D	D	D	D	D	D	D	D	D
Asian	75,000	21,000	15,000	3,000	S	48,000	42,000	6,000	6,000	2,000	4,000
Black or African American	58,000	16,000	9,000	7,000	D	34,000	22,000	12,000	8,000	S	6,000
Native Hawaiian or Other Pacific Islander	D	D	D	D	D	D	D	D	D	D	D
White	392,000	140,000	79,000	42,000	19,000	187,000	160,000	28,000	65,000	34,000	31,000
More than one race	18,000	6,000	S	1,000	D	8,000	5,000	D	4,000	1,000	S
Without disability	546,000	184,000	112,000	51,000	20,000	268,000	219,000	50,000	94,000	39,000	55,000
With disability	85,000	38,000	26,000	7,000	S	42,000	38,000	4,000	5,000	3,000	2,000
Engineers	2,263,000	1,856,000	1,774,000	44,000	38,000	129,000	122,000	8,000	278,000	172,000	106,000
Female at birth	409,000	309,000	293,000	9,000	8,000	32,000	31,000	1,000	68,000	48,000	20,000
Male at birth	1,855,000	1,546,000	1,481,000	35,000	30,000	98,000	91,000	7,000	211,000	124,000	87,000

TABLE 2-5

Employed college graduates, by major occupation, sex assigned at birth, gender identity, ethnicity, race, disability status, and detailed employment sector: 2023

(Number)

Occupation, sex assigned at birth, gender identity,[a] ethnicity, race, and disability status	Total	Business or industry				Education			Government		
		Business or industry, total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Education, total	4-year educational institution[b]	2-year college or precollege educational institution	Government, total	Federal government[c]	State or local government
Female gender identity	411,000	310,000	293,000	9,000	7,000	31,000	30,000	1,000	70,000	50,000	19,000
Male gender identity	1,848,000	1,542,000	1,477,000	35,000	30,000	98,000	91,000	7,000	209,000	122,000	87,000
Transgender identity	4,000	3,000	S	D	D	D	D	D	D	D	D
Different term used for gender identity	10,000	S	S	D	D	D	D	D	D	D	D
Hispanic or Latino	226,000	183,000	174,000	4,000	5,000	10,000	9,000	D	32,000	18,000	14,000
Not Hispanic or Latino											
American Indian or Alaska Native	4,000	2,000	2,000	D	D	D	D	D	D	D	D
Asian	388,000	302,000	292,000	8,000	2,000	46,000	44,000	S	40,000	22,000	18,000
Black or African American	90,000	66,000	63,000	D	D	4,000	4,000	D	20,000	9,000	12,000
Native Hawaiian or Other Pacific Islander	S	S	D	D	D	D	D	D	D	D	D
White	1,490,000	1,253,000	1,197,000	28,000	27,000	64,000	61,000	3,000	173,000	117,000	57,000
More than one race	63,000	47,000	45,000	S	*	5,000	3,000	D	11,000	5,000	S
Without disability	2,041,000	1,673,000	1,601,000	39,000	33,000	117,000	109,000	8,000	250,000	155,000	96,000
With disability	223,000	182,000	174,000	4,000	5,000	12,000	12,000	D	28,000	18,000	10,000
S&E-related occupations	11,253,000	8,231,000	5,617,000	2,171,000	443,000	2,052,000	986,000	1,066,000	969,000	388,000	581,000
Female at birth	6,669,000	4,798,000	2,926,000	1,620,000	252,000	1,310,000	644,000	666,000	561,000	193,000	367,000
Male at birth	4,584,000	3,433,000	2,691,000	551,000	191,000	743,000	342,000	400,000	408,000	195,000	214,000
Female gender identity	6,645,000	4,783,000	2,912,000	1,620,000	251,000	1,307,000	642,000	665,000	555,000	195,000	360,000
Male gender identity	4,563,000	3,415,000	2,679,000	548,000	188,000	741,000	341,000	401,000	406,000	192,000	214,000
Transgender identity	15,000	11,000	7,000	S	D	2,000	S	D	D	D	D
Different term used for gender identity	48,000	37,000	30,000	S	D	4,000	3,000	S	S	D	S
Hispanic or Latino	1,142,000	805,000	598,000	168,000	39,000	191,000	98,000	92,000	145,000	54,000	91,000
Not Hispanic or Latino											
American Indian or Alaska Native	13,000	7,000	4,000	S	D	2,000	S	2,000	S	S	S
Asian	1,664,000	1,271,000	911,000	313,000	47,000	254,000	193,000	61,000	139,000	66,000	73,000
Black or African American	889,000	598,000	404,000	176,000	18,000	143,000	63,000	80,000	149,000	60,000	88,000
Native Hawaiian or Other Pacific Islander	10,000	S	S	D	D	5,000	D	S	D	D	D
White	7,159,000	5,315,000	3,547,000	1,450,000	318,000	1,363,000	557,000	806,000	482,000	188,000	294,000
More than one race	376,000	232,000	150,000	62,000	S	95,000	S	24,000	48,000	17,000	31,000
Without disability	10,137,000	7,447,000	5,023,000	2,036,000	388,000	1,831,000	888,000	942,000	859,000	338,000	521,000
With disability	1,115,000	784,000	594,000	135,000	55,000	222,000	98,000	124,000	110,000	50,000	60,000
Non-S&E occupations	36,097,000	24,560,000	19,040,000	2,950,000	2,570,000	7,401,000	1,524,000	5,877,000	4,136,000	1,404,000	2,731,000
Female at birth	20,349,000	12,466,000	9,144,000	2,056,000	1,266,000	5,619,000	966,000	4,653,000	2,264,000	638,000	1,626,000
Male at birth	15,748,000	12,094,000	9,896,000	894,000	1,304,000	1,783,000	558,000	1,225,000	1,872,000	767,000	1,105,000
Female gender identity	20,243,000	12,393,000	9,111,000	2,019,000	1,263,000	5,588,000	949,000	4,639,000	2,262,000	638,000	1,624,000

TABLE 2-5

Employed college graduates, by major occupation, sex assigned at birth, gender identity, ethnicity, race, disability status, and detailed employment sector: 2023

(Number)

Occupation, sex assigned at birth, gender identity,[a] ethnicity, race, and disability status	Total	Business or industry				Education			Government		
		Business or industry, total	For-profit business or industry	Nonprofit business or industry	Self-employed, not incorporated	Education, total	4-year educational institution[b]	2-year college or precollege educational institution	Government, total	Federal government[c]	State or local government
Male gender identity	15,689,000	12,048,000	9,855,000	892,000	1,300,000	1,771,000	551,000	1,220,000	1,870,000	766,000	1,104,000
Transgender identity	57,000	42,000	22,000	S	S	S	S	3,000	2,000	D	S
Different term used for gender identity	164,000	113,000	73,000	35,000	5,000	38,000	S	S	12,000	S	S
Hispanic or Latino	4,023,000	2,391,000	1,853,000	307,000	231,000	953,000	220,000	733,000	679,000	253,000	426,000
Not Hispanic or Latino											
American Indian or Alaska Native	86,000	43,000	30,000	S	S	15,000	S	13,000	29,000	S	28,000
Asian	2,699,000	2,069,000	1,757,000	175,000	138,000	385,000	116,000	269,000	245,000	67,000	178,000
Black or African American	3,147,000	1,780,000	1,359,000	299,000	122,000	673,000	123,000	550,000	694,000	236,000	458,000
Native Hawaiian or Other Pacific Islander	24,000	15,000	12,000	D	D	S	D	S	4,000	S	S
White	25,158,000	17,576,000	13,506,000	2,077,000	1,993,000	5,206,000	1,027,000	4,179,000	2,376,000	800,000	1,576,000
More than one race	959,000	686,000	523,000	82,000	81,000	164,000	35,000	129,000	110,000	46,000	64,000
Without disability	31,482,000	21,435,000	16,650,000	2,583,000	2,202,000	6,494,000	1,338,000	5,156,000	3,553,000	1,182,000	2,371,000
With disability	4,615,000	3,124,000	2,390,000	367,000	367,000	908,000	186,000	721,000	583,000	222,000	361,000

* = 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.

[a] Gender identity estimates are tabulated based on "mark all that apply" responses to the following question, "How do you currently describe yourself? 1. Male, 2. Female, 3. Transgender, and 4. I use a different term." Thus, these four gender identity categories are not mutually exclusive.
[b] Four-year educational institution includes medical schools and university-affiliated research institutes.
[c] Federal government includes civilian and military.

Note(s):
Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding and multiple response options for the gender identity question. 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, 2023.

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: 2023

(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 degrees	56,061,000	22,963,000	386,000	413,000	159,000	43,000	118,000	93,000	299,000	642,000	6,551,000	13,602,000	656,000
S&E occupations	8,711,000	1,858,000	236,000	300,000	91,000	6,000	38,000	48,000	64,000	398,000	121,000	473,000	83,000
Biological, agricultural, and other life scientists	813,000	133,000	*	D	D	*	D	31,000	8,000	D	D	51,000	38,000	4,000
Computer and mathematical scientists	4,573,000	921,000	224,000	279,000	82,000	5,000	D	D	5,000	S	8,000	29,000	230,000	57,000
Physical and related scientists	430,000	63,000	*	D	D	D	4,000	28,000	D	D	5,000	12,000	11,000	S
Social and related scientists	631,000	150,000	D	D	D	D	S	D	57,000	D	11,000	74,000	S	
Engineers	2,263,000	591,000	12,000	20,000	9,000	D	S	7,000	4,000	385,000	18,000	120,000	15,000	
S&E-related occupations	11,253,000	7,683,000	71,000	52,000	32,000	23,000	36,000	25,000	132,000	124,000	5,772,000	1,262,000	153,000	
Non-S&E occupations	36,097,000	13,422,000	80,000	61,000	36,000	15,000	44,000	19,000	103,000	120,000	658,000	11,868,000	419,000	
Bachelor's	34,400,000	11,736,000	262,000	269,000	107,000	29,000	85,000	52,000	58,000	402,000	3,099,000	6,980,000	395,000	
S&E occupations	5,069,000	1,121,000	171,000	203,000	66,000	2,000	27,000	25,000	S	256,000	55,000	252,000	54,000	
Biological, agricultural, and other life scientists	315,000	62,000	D	D	D	D	22,000	3,000	D	D	18,000	19,000	S	
Computer and mathematical scientists	2,999,000	615,000	163,000	190,000	58,000	2,000	D	4,000	D	3,000	16,000	140,000	38,000	
Physical and related scientists	186,000	31,000	D	D	D	D	4,000	15,000	D	3,000	6,000	3,000	*	
Social and related scientists	168,000	32,000	D	D	D	D	D	D	S	D	S	16,000	D	
Engineers	1,402,000	380,000	8,000	12,000	7,000	D	D	3,000	D	250,000	S	75,000	11,000	
S&E-related occupations	5,881,000	3,565,000	38,000	32,000	21,000	20,000	19,000	15,000	12,000	76,000	2,683,000	562,000	85,000	
Non-S&E occupations	23,449,000	7,051,000	53,000	34,000	20,000	7,000	39,000	11,000	35,000	70,000	361,000	6,165,000	255,000	
Master's	15,780,000	7,476,000	119,000	135,000	49,000	12,000	29,000	34,000	121,000	213,000	1,584,000	4,996,000	185,000	
S&E occupations	2,599,000	597,000	63,000	91,000	22,000	3,000	9,000	18,000	20,000	124,000	43,000	179,000	26,000	
Biological, agricultural, and other life scientists	211,000	34,000	*	D	D	D	8,000	2,000	D	D	11,000	11,000	D	
Computer and mathematical scientists	1,347,000	283,000	59,000	83,000	20,000	3,000	D	S	S	S	13,000	81,000	19,000	
Physical and related scientists	119,000	24,000	D	D	D	D	*	12,000	D	S	5,000	4,000	D	
Social and related scientists	242,000	66,000	D	D	D	D	D	D	15,000	D	8,000	41,000	1,000	
Engineers	680,000	189,000	3,000	7,000	2,000	D	D	3,000	S	120,000	5,000	42,000	4,000	
S&E-related occupations	3,096,000	2,183,000	32,000	20,000	11,000	2,000	15,000	8,000	45,000	45,000	1,312,000	652,000	40,000	
Non-S&E occupations	10,085,000	4,696,000	24,000	24,000	15,000	S	5,000	S	56,000	44,000	229,000	4,164,000	119,000	
Doctorate	2,420,000	771,000	5,000	8,000	4,000	S	3,000	7,000	84,000	26,000	286,000	324,000	21,000	
S&E occupations	973,000	111,000	2,000	6,000	3,000	D	2,000	5,000	26,000	19,000	12,000	32,000	4,000	
S&E-related occupations	562,000	348,000	S	D	D	D	S	2,000	50,000	3,000	253,000	34,000	4,000	
Non-S&E occupations	885,000	312,000	S	D	D	D	D	D	8,000	4,000	21,000	257,000	14,000	
Professional	3,461,000	2,980,000	D	D	D	D	D	D	36,000	D	1,582,000	1,303,000	55,000	
S&E occupations	70,000	30,000	D	D	D	D	D	D	7,000	D	12,000	9,000	D	
S&E-related occupations	1,714,000	1,587,000	D	D	D	D	D	D	24,000	D	1,524,000	13,000	24,000	
Non-S&E occupations	1,677,000	1,364,000	D	D	D	D	D	D	4,000	D	47,000	1,281,000	31,000	

* = 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, 2023.

TABLE 3-1

Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2023

(Number)

Level of highest degree and occupation	Total	Primary work activity					
		Computer applications	Design[a]	Management and administration[b]	Research and development[c]	Teaching	Other[d]
All degrees	56,061,000	3,263,000	1,692,000	24,369,000	4,519,000	6,878,000	15,339,000
S&E occupations	8,711,000	2,421,000	910,000	1,974,000	2,020,000	444,000	942,000
Biological, agricultural, and other life scientists	813,000	18,000	14,000	158,000	432,000	89,000	102,000
Agricultural and food scientists	74,000	S	S	22,000	33,000	D	12,000
Biological and medical scientists	552,000	12,000	11,000	97,000	354,000	6,000	71,000
Environmental life scientists	60,000	D	D	29,000	20,000	S	7,000
Postsecondary teachers - life and related sciences	127,000	D	D	9,000	26,000	79,000	12,000
Computer and mathematical scientists	4,573,000	2,185,000	315,000	968,000	610,000	119,000	377,000
Computer and information scientists	4,154,000	2,105,000	292,000	907,000	460,000	40,000	350,000
Mathematical scientists	318,000	78,000	23,000	58,000	130,000	S	26,000
Postsecondary teachers - computer and math sciences	101,000	2,000	D	3,000	19,000	76,000	1,000
Physical and related scientists	430,000	10,000	6,000	78,000	214,000	46,000	75,000
Chemists, except biochemists	129,000	*	S	28,000	65,000	*	34,000
Earth, atmospheric, and ocean scientists	143,000	6,000	2,000	31,000	79,000	D	25,000
Physicists	45,000	3,000	2,000	5,000	32,000	D	3,000
Other physical and related scientists, including astronomers	45,000	1,000	1,000	9,000	23,000	D	11,000
Postsecondary teachers - physical and related sciences	69,000	D	D	6,000	15,000	45,000	3,000
Social and related scientists	631,000	5,000	6,000	112,000	238,000	150,000	121,000
Economists	47,000	3,000	D	5,000	27,000	D	12,000
Political scientists	38,000	D	D	12,000	12,000	D	14,000
Psychologists	132,000	D	D	14,000	48,000	S	67,000
Anthropologists	14,000	D	D	3,000	9,000	D	2,000
Sociologists	20,000	D	D	S	12,000	D	D
Other social and related scientists	178,000	S	6,000	59,000	87,000	S	23,000
Postsecondary teachers - social and related sciences	202,000	D	D	15,000	43,000	142,000	S
Engineers	2,263,000	204,000	570,000	658,000	525,000	39,000	267,000
Aerospace, aeronautical, and astronautical engineers	181,000	20,000	46,000	36,000	57,000	D	20,000
Chemical engineers	80,000	4,000	22,000	21,000	16,000	D	16,000
Civil, architectural, and sanitary engineers	324,000	11,000	110,000	117,000	32,000	D	53,000
Electrical and computer hardware engineers	501,000	106,000	124,000	87,000	142,000	D	41,000
Industrial engineers	107,000	5,000	21,000	44,000	S	D	19,000
Mechanical engineers	424,000	7,000	176,000	109,000	93,000	D	39,000
Other engineers	581,000	47,000	70,000	238,000	147,000	3,000	76,000
Postsecondary teachers - engineering	66,000	D	D	6,000	21,000	34,000	S
S&E-related occupations	11,253,000	538,000	343,000	2,219,000	818,000	1,046,000	6,288,000

TABLE 3-1

Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2023

(Number)

Level of highest degree and occupation	Total	Primary work activity					
		Computer applications	Design[a]	Management and administration[b]	Research and development[c]	Teaching	Other[d]
Health-related occupations	7,102,000	37,000	15,000	807,000	340,000	259,000	5,644,000
S&E managers	1,485,000	87,000	59,000	1,006,000	78,000	S	253,000
S&E precollege teachers	793,000	D	D	21,000	3,000	764,000	5,000
S&E technicians and technologists	1,581,000	403,000	160,000	315,000	368,000	7,000	327,000
Other S&E-related occupations	291,000	11,000	108,000	70,000	29,000	D	59,000
Non-S&E occupations	36,097,000	303,000	439,000	20,176,000	1,681,000	5,389,000	8,109,000
Non-S&E managers	6,016,000	74,000	87,000	5,137,000	169,000	32,000	517,000
Management-related occupations	6,165,000	86,000	81,000	4,682,000	344,000	84,000	889,000
Non-S&E precollege teachers	4,083,000	D	D	176,000	26,000	3,799,000	70,000
Non-S&E postsecondary teachers	601,000	D	S	39,000	42,000	480,000	32,000
Social services and related occupations	2,462,000	S	S	612,000	120,000	205,000	1,510,000
Sales and marketing occupations	4,560,000	14,000	21,000	3,840,000	158,000	21,000	508,000
Art, humanities, and related occupations	1,671,000	14,000	139,000	554,000	258,000	55,000	651,000
Other non-S&E occupations	10,539,000	107,000	87,000	5,136,000	564,000	713,000	3,932,000
Bachelor's	34,400,000	2,195,000	1,157,000	17,051,000	2,395,000	3,289,000	8,313,000
S&E occupations	5,069,000	1,598,000	623,000	1,263,000	904,000	76,000	606,000
Biological, agricultural, and other life scientists	315,000	9,000	6,000	85,000	136,000	15,000	64,000
Agricultural and food scientists	36,000	D	D	15,000	8,000	D	9,000
Biological and medical scientists	228,000	S	3,000	49,000	120,000	S	47,000
Environmental life scientists	35,000	D	D	20,000	5,000	S	5,000
Postsecondary teachers - life and related sciences	16,000	D	D	D	3,000	10,000	D
Computer and mathematical scientists	2,999,000	1,448,000	227,000	653,000	357,000	39,000	275,000
Computer and information scientists	2,865,000	1,426,000	212,000	630,000	313,000	28,000	257,000
Mathematical scientists	123,000	22,000	15,000	24,000	42,000	D	18,000
Postsecondary teachers - computer and math sciences	11,000	D	D	D	D	9,000	D
Physical and related scientists	186,000	3,000	3,000	37,000	87,000	7,000	49,000
Chemists, except biochemists	78,000	D	S	17,000	32,000	D	28,000
Earth, atmospheric, and ocean scientists	65,000	S	1,000	12,000	35,000	D	15,000
Physicists	10,000	D	D	S	7,000	D	D
Other physical and related scientists, including astronomers	23,000	D	D	5,000	11,000	D	6,000
Postsecondary teachers - physical and related sciences	10,000	D	D	D	3,000	6,000	D
Social and related scientists	168,000	3,000	D	51,000	70,000	13,000	29,000
Economists	11,000	S	D	*	4,000	D	S
Political scientists	14,000	D	D	S	S	D	D
Psychologists	34,000	D	D	S	17,000	D	14,000

TABLE 3-1

Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2023

(Number)

Level of highest degree and occupation	Total	Primary work activity					
		Computer applications	Design[a]	Management and administration[b]	Research and development[c]	Teaching	Other[d]
Anthropologists	4,000	D	D	S	3,000	D	*
Sociologists	S	D	D	D	S	D	D
Other social and related scientists	84,000	D	D	35,000	37,000	D	10,000
Postsecondary teachers - social and related sciences	15,000	D	D	D	S	S	D
Engineers	1,402,000	134,000	386,000	436,000	254,000	4,000	188,000
Aerospace, aeronautical, and astronautical engineers	111,000	13,000	29,000	19,000	S	D	12,000
Chemical engineers	56,000	4,000	17,000	14,000	7,000	D	14,000
Civil, architectural, and sanitary engineers	211,000	9,000	70,000	83,000	13,000	D	34,000
Electrical and computer hardware engineers	294,000	67,000	81,000	51,000	66,000	D	29,000
Industrial engineers	77,000	4,000	18,000	26,000	S	D	14,000
Mechanical engineers	304,000	5,000	132,000	83,000	53,000	D	31,000
Other engineers	342,000	30,000	39,000	159,000	62,000	D	51,000
Postsecondary teachers - engineering	7,000	D	D	D	S	S	D
S&E-related occupations	5,881,000	362,000	225,000	1,328,000	450,000	440,000	3,076,000
Health-related occupations	3,508,000	26,000	6,000	487,000	182,000	116,000	2,690,000
S&E managers	753,000	55,000	33,000	550,000	26,000	D	89,000
S&E precollege teachers	317,000	D	D	10,000	S	305,000	D
S&E technicians and technologists	1,117,000	273,000	118,000	232,000	226,000	S	262,000
Other S&E-related occupations	185,000	8,000	67,000	49,000	14,000	D	34,000
Non-S&E occupations	23,449,000	236,000	309,000	14,459,000	1,041,000	2,773,000	4,631,000
Non-S&E managers	3,541,000	51,000	46,000	3,035,000	62,000	7,000	338,000
Management-related occupations	4,157,000	66,000	52,000	3,214,000	207,000	56,000	562,000
Non-S&E precollege teachers	2,147,000	D	D	97,000	2,000	2,007,000	34,000
Non-S&E postsecondary teachers	86,000	D	D	S	S	74,000	D
Social services and related occupations	1,042,000	D	D	363,000	48,000	80,000	542,000
Sales and marketing occupations	3,824,000	12,000	S	3,210,000	126,000	S	451,000
Art, humanities, and related occupations	1,309,000	14,000	115,000	436,000	206,000	41,000	497,000
Other non-S&E occupations	7,343,000	88,000	68,000	4,096,000	390,000	496,000	2,205,000
Master's	15,780,000	942,000	481,000	6,307,000	1,335,000	2,949,000	3,767,000
S&E occupations	2,599,000	729,000	250,000	600,000	608,000	156,000	256,000
Biological, agricultural, and other life scientists	211,000	6,000	7,000	39,000	113,000	26,000	20,000
Agricultural and food scientists	20,000	D	D	4,000	12,000	D	S
Biological and medical scientists	143,000	3,000	7,000	28,000	89,000	S	14,000
Environmental life scientists	21,000	D	D	8,000	11,000	D	1,000
Postsecondary teachers - life and related sciences	27,000	D	D	D	1,000	24,000	D

TABLE 3-1

Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2023

(Number)

Level of highest degree and occupation	Total	Primary work activity					
		Computer applications	Design[a]	Management and administration[b]	Research and development[c]	Teaching	Other[d]
Computer and mathematical scientists	1,347,000	658,000	80,000	293,000	174,000	47,000	95,000
Computer and information scientists	1,170,000	613,000	74,000	265,000	118,000	11,000	89,000
Mathematical scientists	135,000	43,000	5,000	27,000	54,000	D	5,000
Postsecondary teachers - computer and math sciences	41,000	D	D	D	3,000	36,000	D
Physical and related scientists	119,000	4,000	1,000	24,000	61,000	13,000	17,000
Chemists, except biochemists	22,000	D	D	6,000	12,000	D	4,000
Earth, atmospheric, and ocean scientists	58,000	3,000	S	14,000	32,000	D	8,000
Physicists	13,000	1,000	D	1,000	9,000	D	S
Other physical and related scientists, including astronomers	12,000	D	D	4,000	5,000	D	3,000
Postsecondary teachers - physical and related sciences	15,000	D	D	D	S	12,000	D
Social and related scientists	242,000	1,000	3,000	43,000	86,000	52,000	56,000
Economists	25,000	1,000	D	2,000	16,000	D	6,000
Political scientists	14,000	D	D	2,000	5,000	D	6,000
Psychologists	53,000	D	D	7,000	16,000	D	29,000
Anthropologists	7,000	D	D	2,000	4,000	D	1,000
Sociologists	11,000	D	D	D	6,000	D	D
Other social and related scientists	73,000	D	S	23,000	34,000	D	11,000
Postsecondary teachers - social and related sciences	59,000	D	D	D	6,000	47,000	S
Engineers	680,000	60,000	159,000	200,000	174,000	19,000	69,000
Aerospace, aeronautical, and astronautical engineers	57,000	6,000	14,000	14,000	14,000	D	7,000
Chemical engineers	15,000	*	3,000	6,000	4,000	D	2,000
Civil, architectural, and sanitary engineers	101,000	1,000	36,000	31,000	15,000	D	17,000
Electrical and computer hardware engineers	168,000	34,000	38,000	33,000	51,000	D	12,000
Industrial engineers	27,000	D	3,000	17,000	2,000	D	5,000
Mechanical engineers	106,000	2,000	38,000	25,000	32,000	D	8,000
Other engineers	189,000	15,000	27,000	73,000	54,000	D	18,000
Postsecondary teachers - engineering	18,000	D	D	D	2,000	15,000	D
S&E-related occupations	3,096,000	158,000	109,000	693,000	213,000	519,000	1,404,000
Health-related occupations	1,684,000	8,000	6,000	227,000	89,000	88,000	1,265,000
S&E managers	486,000	30,000	23,000	361,000	21,000	S	50,000
S&E precollege teachers	442,000	D	D	9,000	S	427,000	4,000
S&E technicians and technologists	379,000	116,000	38,000	75,000	88,000	2,000	61,000
Other S&E-related occupations	104,000	4,000	41,000	21,000	15,000	D	24,000
Non-S&E occupations	10,085,000	55,000	123,000	5,014,000	513,000	2,274,000	2,107,000
Non-S&E managers	2,047,000	19,000	35,000	1,791,000	67,000	23,000	112,000

TABLE 3-1

Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2023

(Number)

Level of highest degree and occupation	Total	Primary work activity					
		Computer applications	Design[a]	Management and administration[b]	Research and development[c]	Teaching	Other[d]
Management-related occupations	1,838,000	18,000	28,000	1,354,000	120,000	20,000	298,000
Non-S&E precollege teachers	1,857,000	D	D	75,000	S	1,721,000	34,000
Non-S&E postsecondary teachers	235,000	D	D	16,000	16,000	188,000	S
Social services and related occupations	1,329,000	D	4,000	230,000	66,000	103,000	925,000
Sales and marketing occupations	663,000	S	S	564,000	29,000	D	53,000
Art, humanities, and related occupations	316,000	D	S	102,000	46,000	10,000	135,000
Other non-S&E occupations	1,800,000	11,000	19,000	884,000	146,000	200,000	541,000
Doctorate	2,420,000	110,000	48,000	532,000	690,000	578,000	461,000
S&E occupations	973,000	86,000	35,000	104,000	490,000	202,000	56,000
Biological, agricultural, and other life scientists	264,000	3,000	1,000	32,000	176,000	42,000	10,000
Agricultural and food scientists	17,000	D	D	3,000	13,000	D	*
Biological and medical scientists	172,000	3,000	1,000	20,000	138,000	S	9,000
Environmental life scientists	5,000	D	D	S	3,000	D	D
Postsecondary teachers - life and related sciences	71,000	D	D	8,000	22,000	40,000	D
Computer and mathematical scientists	207,000	70,000	7,000	19,000	71,000	33,000	7,000
Computer and information scientists	105,000	57,000	5,000	10,000	29,000	S	3,000
Mathematical scientists	53,000	13,000	S	7,000	28,000	D	3,000
Postsecondary teachers - computer and math sciences	49,000	D	D	3,000	14,000	32,000	D
Physical and related scientists	123,000	4,000	2,000	16,000	66,000	27,000	9,000
Chemists, except biochemists	28,000	D	D	5,000	21,000	D	2,000
Earth, atmospheric, and ocean scientists	18,000	S	D	4,000	11,000	D	D
Physicists	23,000	2,000	1,000	2,000	16,000	D	S
Other physical and related scientists, including astronomers	10,000	D	D	D	7,000	D	S
Postsecondary teachers - physical and related sciences	44,000	D	D	4,000	10,000	27,000	3,000
Social and related scientists	198,000	*	D	15,000	79,000	83,000	21,000
Economists	10,000	D	D	2,000	7,000	D	1,000
Political scientists	4,000	D	D	D	4,000	D	D
Psychologists	36,000	D	D	4,000	15,000	D	17,000
Anthropologists	2,000	D	D	D	2,000	D	D
Sociologists	3,000	D	D	D	2,000	D	D
Other social and related scientists	18,000	D	D	S	15,000	D	2,000
Postsecondary teachers - social and related sciences	123,000	D	D	7,000	34,000	81,000	S
Engineers	181,000	10,000	24,000	22,000	98,000	17,000	10,000
Aerospace, aeronautical, and astronautical engineers	13,000	1,000	3,000	3,000	6,000	D	S
Chemical engineers	9,000	D	2,000	S	5,000	D	D

TABLE 3-1

Employed college graduates, by level of highest degree, minor occupation, and primary work activity: 2023

(Number)

Level of highest degree and occupation	Total	Primary work activity					
		Computer applications	Design[a]	Management and administration[b]	Research and development[c]	Teaching	Other[d]
Civil, architectural, and sanitary engineers	13,000	D	5,000	3,000	4,000	D	S
Electrical and computer hardware engineers	39,000	6,000	5,000	3,000	25,000	D	1,000
Industrial engineers	3,000	D	D	D	D	D	D
Mechanical engineers	15,000	D	5,000	S	8,000	D	D
Other engineers	49,000	2,000	5,000	6,000	31,000	D	6,000
Postsecondary teachers - engineering	40,000	D	D	5,000	18,000	17,000	D
S&E-related occupations	562,000	14,000	8,000	92,000	101,000	70,000	276,000
Health-related occupations	361,000	D	D	23,000	29,000	42,000	264,000
S&E managers	87,000	S	1,000	60,000	19,000	D	7,000
S&E precollege teachers	30,000	D	D	D	D	28,000	D
S&E technicians and technologists	82,000	13,000	4,000	8,000	54,000	D	3,000
Other S&E-related occupations	S	D	D	D	D	D	D
Non-S&E occupations	885,000	10,000	6,000	335,000	99,000	306,000	129,000
Non-S&E managers	253,000	4,000	4,000	192,000	37,000	S	14,000
Management-related occupations	79,000	S	1,000	48,000	15,000	7,000	8,000
Non-S&E precollege teachers	64,000	D	D	5,000	D	60,000	D
Non-S&E postsecondary teachers	255,000	D	D	14,000	24,000	198,000	19,000
Social services and related occupations	80,000	D	D	16,000	S	22,000	36,000
Sales and marketing occupations	21,000	D	D	16,000	3,000	D	1,000
Art, humanities, and related occupations	34,000	D	D	12,000	S	D	13,000
Other non-S&E occupations	98,000	S	D	31,000	8,000	16,000	38,000
Professional	3,461,000	16,000	6,000	479,000	99,000	62,000	2,798,000
S&E occupations	70,000	9,000	S	7,000	18,000	9,000	24,000
S&E-related occupations	1,714,000	4,000	D	104,000	54,000	17,000	1,532,000
Non-S&E occupations	1,677,000	D	D	368,000	27,000	36,000	1,242,000

* = 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.

[a] Design is no longer included in the definition of "Other" and is now its own category.
[b] 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.
[c] Research and development includes basic research, applied research, and development.
[d] Other work activity includes production, operations, and 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, 2023.

TABLE 3-2

Employed college graduates, by employment sector, minor occupation, and job satisfaction: 2023

(Number)

Sector and occupation	Total	Job satisfaction			
		Very satisfied	Somewhat satisfied	Somewhat dissatisfied	Very dissatisfied
All sectors	56,061,000	24,708,000	25,691,000	4,374,000	1,287,000
S&E occupations	8,711,000	3,894,000	4,025,000	644,000	149,000
Biological, agricultural, and other life scientists	813,000	363,000	382,000	53,000	15,000
Agricultural and food scientists	74,000	25,000	44,000	5,000	D
Biological and medical scientists	552,000	251,000	254,000	34,000	13,000
Environmental life scientists	60,000	24,000	28,000	7,000	S
Postsecondary teachers - life and related sciences	127,000	62,000	56,000	7,000	S
Computer and mathematical scientists	4,573,000	2,004,000	2,141,000	363,000	65,000
Computer and information scientists	4,154,000	1,817,000	1,949,000	327,000	62,000
Mathematical scientists	318,000	143,000	147,000	26,000	2,000
Postsecondary teachers - computer and math sciences	101,000	44,000	45,000	11,000	S
Physical and related scientists	430,000	190,000	205,000	27,000	9,000
Chemists, except biochemists	129,000	56,000	60,000	10,000	3,000
Earth, atmospheric, and ocean scientists	143,000	68,000	66,000	8,000	1,000
Physicists	45,000	24,000	19,000	1,000	D
Other physical and related scientists, including astronomers	45,000	18,000	21,000	3,000	D
Postsecondary teachers - physical and related sciences	69,000	24,000	39,000	4,000	D
Social and related scientists	631,000	285,000	266,000	57,000	24,000
Economists	47,000	26,000	16,000	4,000	S
Political scientists	38,000	19,000	11,000	S	D
Psychologists	132,000	68,000	51,000	7,000	S
Anthropologists	14,000	4,000	7,000	2,000	D
Sociologists	20,000	12,000	6,000	S	D
Other social and related scientists	178,000	71,000	81,000	20,000	S
Postsecondary teachers - social and related sciences	202,000	85,000	94,000	18,000	S
Engineers	2,263,000	1,052,000	1,031,000	144,000	37,000
Aerospace, aeronautical, and astronautical engineers	181,000	102,000	72,000	6,000	D
Chemical engineers	80,000	38,000	34,000	4,000	S
Civil, architectural, and sanitary engineers	324,000	157,000	145,000	19,000	S
Electrical and computer hardware engineers	501,000	247,000	216,000	27,000	11,000
Industrial engineers	107,000	43,000	48,000	S	S
Mechanical engineers	424,000	171,000	218,000	31,000	5,000
Other engineers	581,000	266,000	266,000	40,000	8,000
Postsecondary teachers - engineering	66,000	29,000	33,000	4,000	D
S&E-related occupations	11,253,000	4,965,000	5,229,000	847,000	212,000

TABLE 3-2

Employed college graduates, by employment sector, minor occupation, and job satisfaction: 2023

(Number)

Sector and occupation	Total	Job satisfaction			
		Very satisfied	Somewhat satisfied	Somewhat dissatisfied	Very dissatisfied
Health-related occupations	7,102,000	3,133,000	3,325,000	517,000	128,000
S&E managers	1,485,000	742,000	634,000	86,000	24,000
S&E precollege teachers	793,000	303,000	412,000	54,000	24,000
S&E technicians and technologists	1,581,000	618,000	752,000	175,000	35,000
Other S&E-related occupations	291,000	170,000	106,000	14,000	1,000
Non-S&E occupations	36,097,000	15,850,000	16,437,000	2,883,000	926,000
Non-S&E managers	6,016,000	3,287,000	2,382,000	286,000	60,000
Management-related occupations	6,165,000	2,871,000	2,743,000	453,000	99,000
Non-S&E precollege teachers	4,083,000	1,385,000	2,222,000	332,000	144,000
Non-S&E postsecondary teachers	601,000	266,000	281,000	44,000	9,000
Social services and related occupations	2,462,000	1,240,000	1,012,000	163,000	48,000
Sales and marketing occupations	4,560,000	1,869,000	2,103,000	425,000	163,000
Art, humanities, and related occupations	1,671,000	736,000	722,000	172,000	41,000
Other non-S&E occupations	10,539,000	4,197,000	4,971,000	1,009,000	362,000
Business or industry	39,308,000	17,864,000	17,521,000	3,035,000	887,000
S&E occupations	6,517,000	2,899,000	3,012,000	492,000	114,000
Biological, agricultural, and other life scientists	357,000	159,000	170,000	24,000	4,000
Agricultural and food scientists	49,000	15,000	31,000	S	D
Biological and medical scientists	282,000	136,000	125,000	17,000	4,000
Environmental life scientists	26,000	9,000	S	D	D
Postsecondary teachers - life and related sciences	D	D	D	D	D
Computer and mathematical scientists	3,894,000	1,694,000	1,833,000	309,000	58,000
Computer and information scientists	3,639,000	1,582,000	1,713,000	287,000	56,000
Mathematical scientists	255,000	112,000	119,000	22,000	2,000
Postsecondary teachers - computer and math sciences	D	D	D	D	D
Physical and related scientists	189,000	83,000	90,000	13,000	3,000
Chemists, except biochemists	90,000	38,000	44,000	7,000	S
Earth, atmospheric, and ocean scientists	66,000	28,000	32,000	5,000	S
Physicists	13,000	8,000	5,000	1,000	D
Other physical and related scientists, including astronomers	20,000	9,000	10,000	1,000	D
Postsecondary teachers - physical and related sciences	D	D	D	D	D
Social and related scientists	221,000	102,000	83,000	22,000	15,000
Economists	22,000	14,000	7,000	1,000	D
Political scientists	14,000	S	3,000	S	D
Psychologists	70,000	41,000	22,000	4,000	3,000

TABLE 3-2

Employed college graduates, by employment sector, minor occupation, and job satisfaction: 2023

(Number)

Sector and occupation	Total	Job satisfaction			
		Very satisfied	Somewhat satisfied	Somewhat dissatisfied	Very dissatisfied
Anthropologists	9,000	3,000	4,000	1,000	D
Sociologists	9,000	S	S	D	D
Other social and related scientists	99,000	34,000	45,000	14,000	S
Postsecondary teachers - social and related sciences	D	D	D	D	D
Engineers	1,856,000	861,000	836,000	125,000	33,000
Aerospace, aeronautical, and astronautical engineers	132,000	67,000	57,000	5,000	D
Chemical engineers	70,000	36,000	26,000	3,000	S
Civil, architectural, and sanitary engineers	230,000	108,000	105,000	14,000	S
Electrical and computer hardware engineers	444,000	225,000	184,000	25,000	10,000
Industrial engineers	102,000	42,000	45,000	S	S
Mechanical engineers	388,000	158,000	196,000	29,000	4,000
Other engineers	489,000	225,000	223,000	35,000	7,000
Postsecondary teachers - engineering	D	D	D	D	D
S&E-related occupations	8,231,000	3,677,000	3,810,000	589,000	155,000
Health-related occupations	5,471,000	2,437,000	2,537,000	395,000	100,000
S&E managers	1,196,000	583,000	528,000	65,000	20,000
S&E precollege teachers	D	D	D	D	D
S&E technicians and technologists	1,293,000	499,000	648,000	114,000	33,000
Other S&E-related occupations	271,000	158,000	97,000	14,000	1,000
Non-S&E occupations	24,560,000	11,288,000	10,699,000	1,955,000	618,000
Non-S&E managers	4,647,000	2,643,000	1,757,000	200,000	46,000
Management-related occupations	5,116,000	2,384,000	2,259,000	393,000	80,000
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	1,430,000	807,000	506,000	96,000	21,000
Sales and marketing occupations	4,405,000	1,809,000	2,066,000	367,000	163,000
Art, humanities, and related occupations	1,495,000	650,000	648,000	156,000	41,000
Other non-S&E occupations	7,468,000	2,996,000	3,463,000	741,000	268,000
Education	10,688,000	4,186,000	5,359,000	860,000	283,000
S&E occupations	1,234,000	533,000	579,000	102,000	20,000
Biological, agricultural, and other life scientists	326,000	146,000	149,000	23,000	S
Agricultural and food scientists	13,000	4,000	9,000	D	D
Biological and medical scientists	181,000	79,000	82,000	13,000	S
Environmental life scientists	5,000	D	S	D	D
Postsecondary teachers - life and related sciences	127,000	62,000	56,000	7,000	S

TABLE 3-2

Employed college graduates, by employment sector, minor occupation, and job satisfaction: 2023

(Number)

Sector and occupation	Total	Job satisfaction			
		Very satisfied	Somewhat satisfied	Somewhat dissatisfied	Very dissatisfied
Computer and mathematical scientists	329,000	150,000	143,000	34,000	2,000
Computer and information scientists	203,000	94,000	88,000	21,000	D
Mathematical scientists	25,000	12,000	11,000	S	D
Postsecondary teachers - computer and math sciences	101,000	44,000	45,000	11,000	S
Physical and related scientists	139,000	54,000	73,000	10,000	2,000
Chemists, except biochemists	19,000	5,000	13,000	S	D
Earth, atmospheric, and ocean scientists	24,000	12,000	10,000	S	D
Physicists	18,000	11,000	6,000	*	D
Other physical and related scientists, including astronomers	9,000	2,000	5,000	D	D
Postsecondary teachers - physical and related sciences	69,000	24,000	39,000	4,000	D
Social and related scientists	311,000	133,000	142,000	27,000	8,000
Economists	11,000	6,000	4,000	1,000	D
Political scientists	3,000	S	1,000	D	D
Psychologists	52,000	23,000	24,000	S	D
Anthropologists	S	D	D	D	D
Sociologists	7,000	S	3,000	D	D
Other social and related scientists	33,000	14,000	16,000	3,000	D
Postsecondary teachers - social and related sciences	202,000	85,000	94,000	18,000	S
Engineers	129,000	49,000	71,000	8,000	S
Aerospace, aeronautical, and astronautical engineers	3,000	1,000	S	D	D
Chemical engineers	3,000	1,000	3,000	D	D
Civil, architectural, and sanitary engineers	9,000	6,000	3,000	D	D
Electrical and computer hardware engineers	12,000	3,000	8,000	S	D
Industrial engineers	D	D	D	D	D
Mechanical engineers	7,000	1,000	6,000	D	D
Other engineers	28,000	8,000	17,000	2,000	D
Postsecondary teachers - engineering	66,000	29,000	33,000	4,000	D
S&E-related occupations	2,052,000	867,000	976,000	164,000	45,000
Health-related occupations	1,028,000	464,000	495,000	52,000	18,000
S&E managers	83,000	48,000	24,000	S	D
S&E precollege teachers	793,000	303,000	412,000	54,000	24,000
S&E technicians and technologists	141,000	46,000	46,000	S	D
Other S&E-related occupations	7,000	7,000	D	D	D
Non-S&E occupations	7,401,000	2,786,000	3,803,000	594,000	218,000
Non-S&E managers	722,000	318,000	346,000	51,000	S

TABLE 3-2

Employed college graduates, by employment sector, minor occupation, and job satisfaction: 2023

(Number)

Sector and occupation	Total	Job satisfaction			
		Very satisfied	Somewhat satisfied	Somewhat dissatisfied	Very dissatisfied
Management-related occupations	300,000	135,000	142,000	S	S
Non-S&E precollege teachers	4,083,000	1,385,000	2,222,000	332,000	144,000
Non-S&E postsecondary teachers	601,000	266,000	281,000	44,000	9,000
Social services and related occupations	506,000	214,000	241,000	44,000	S
Sales and marketing occupations	47,000	28,000	7,000	S	D
Art, humanities, and related occupations	107,000	43,000	56,000	S	D
Other non-S&E occupations	1,035,000	399,000	509,000	93,000	35,000
Government	6,065,000	2,658,000	2,812,000	478,000	116,000
S&E occupations	960,000	462,000	434,000	50,000	14,000
Biological, agricultural, and other life scientists	131,000	58,000	63,000	7,000	S
Agricultural and food scientists	12,000	7,000	4,000	S	D
Biological and medical scientists	89,000	36,000	47,000	3,000	S
Environmental life scientists	29,000	15,000	11,000	S	S
Postsecondary teachers - life and related sciences	D	D	D	D	D
Computer and mathematical scientists	350,000	159,000	165,000	20,000	S
Computer and information scientists	311,000	141,000	148,000	18,000	S
Mathematical scientists	38,000	19,000	17,000	2,000	D
Postsecondary teachers - computer and math sciences	D	D	D	D	D
Physical and related scientists	102,000	52,000	42,000	5,000	S
Chemists, except biochemists	20,000	13,000	4,000	2,000	S
Earth, atmospheric, and ocean scientists	53,000	28,000	24,000	1,000	D
Physicists	14,000	5,000	8,000	D	D
Other physical and related scientists, including astronomers	15,000	7,000	6,000	D	D
Postsecondary teachers - physical and related sciences	D	D	D	D	D
Social and related scientists	99,000	50,000	41,000	8,000	1,000
Economists	14,000	6,000	5,000	S	*
Political scientists	21,000	14,000	8,000	D	D
Psychologists	10,000	4,000	5,000	1,000	D
Anthropologists	3,000	1,000	S	S	D
Sociologists	4,000	S	S	D	D
Other social and related scientists	47,000	23,000	20,000	3,000	D
Postsecondary teachers - social and related sciences	D	D	D	D	D
Engineers	278,000	142,000	123,000	11,000	2,000
Aerospace, aeronautical, and astronautical engineers	46,000	S	13,000	*	D
Chemical engineers	6,000	S	5,000	D	D

TABLE 3-2

Employed college graduates, by employment sector, minor occupation, and job satisfaction: 2023

(Number)

Sector and occupation	Total	Job satisfaction			
		Very satisfied	Somewhat satisfied	Somewhat dissatisfied	Very dissatisfied
Civil, architectural, and sanitary engineers	85,000	43,000	37,000	4,000	*
Electrical and computer hardware engineers	45,000	19,000	24,000	S	D
Industrial engineers	4,000	1,000	3,000	D	D
Mechanical engineers	29,000	12,000	15,000	1,000	D
Other engineers	63,000	33,000	26,000	3,000	S
Postsecondary teachers - engineering	D	D	D	D	D
S&E-related occupations	969,000	421,000	443,000	93,000	S
Health-related occupations	603,000	231,000	293,000	70,000	S
S&E managers	205,000	110,000	83,000	12,000	D
S&E precollege teachers	D	D	D	D	D
S&E technicians and technologists	147,000	73,000	59,000	12,000	S
Other S&E-related occupations	14,000	6,000	S	D	D
Non-S&E occupations	4,136,000	1,776,000	1,935,000	335,000	90,000
Non-S&E managers	647,000	327,000	279,000	34,000	S
Management-related occupations	749,000	352,000	342,000	50,000	5,000
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	526,000	219,000	265,000	23,000	19,000
Sales and marketing occupations	109,000	33,000	31,000	S	D
Art, humanities, and related occupations	69,000	43,000	18,000	D	D
Other non-S&E occupations	2,036,000	802,000	999,000	175,000	60,000

* = 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, pre-college institutions, and other educational institutions. Government includes federal (civilian and military), state, and local employers.

Source(s):
National Center for Science and Engineering Statistics, National Survey of College Graduates, 2023.

TABLE 3-3

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and primary work activity: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Primary work activity					
		Computer applications	Design[b]	Management and administration[c]	Research and development[d]	Teaching	Other[e]
All sexes and gender identities	56,061,000	3,263,000	1,692,000	24,369,000	4,519,000	6,878,000	15,339,000
Very satisfied	24,708,000	1,471,000	812,000	10,947,000	2,093,000	2,652,000	6,733,000
Somewhat satisfied	25,691,000	1,533,000	713,000	11,005,000	1,988,000	3,501,000	6,951,000
Somewhat dissatisfied	4,374,000	230,000	146,000	1,900,000	348,000	528,000	1,222,000
Very dissatisfied	1,287,000	30,000	20,000	516,000	91,000	197,000	433,000
S&E occupations	8,711,000	2,421,000	910,000	1,974,000	2,020,000	444,000	942,000
Very satisfied	3,894,000	1,109,000	408,000	855,000	911,000	193,000	418,000
Somewhat satisfied	4,025,000	1,130,000	415,000	919,000	915,000	210,000	436,000
Somewhat dissatisfied	644,000	162,000	75,000	160,000	156,000	32,000	59,000
Very dissatisfied	149,000	20,000	13,000	40,000	37,000	9,000	29,000
Biological, agricultural, and other life scientists	813,000	18,000	14,000	158,000	432,000	89,000	102,000
Very satisfied	363,000	1,000	4,000	61,000	197,000	41,000	58,000
Somewhat satisfied	382,000	15,000	9,000	85,000	192,000	41,000	41,000
Somewhat dissatisfied	53,000	D	S	9,000	34,000	6,000	2,000
Very dissatisfied	15,000	D	D	S	10,000	D	1,000
Computer and mathematical scientists	4,573,000	2,185,000	315,000	968,000	610,000	119,000	377,000
Very satisfied	2,004,000	1,000,000	140,000	403,000	264,000	60,000	136,000
Somewhat satisfied	2,141,000	1,019,000	133,000	455,000	285,000	49,000	202,000
Somewhat dissatisfied	363,000	150,000	39,000	89,000	49,000	9,000	27,000
Very dissatisfied	65,000	17,000	S	22,000	S	D	S
Physical and related scientists	430,000	10,000	6,000	78,000	214,000	46,000	75,000
Very satisfied	190,000	5,000	3,000	35,000	98,000	17,000	32,000
Somewhat satisfied	205,000	4,000	3,000	37,000	102,000	25,000	35,000
Somewhat dissatisfied	27,000	S	D	5,000	11,000	3,000	6,000
Very dissatisfied	9,000	D	D	S	4,000	D	S
Social and related scientists	631,000	5,000	6,000	112,000	238,000	150,000	121,000
Very satisfied	285,000	2,000	S	52,000	104,000	58,000	66,000
Somewhat satisfied	266,000	2,000	2,000	38,000	108,000	74,000	41,000
Somewhat dissatisfied	57,000	D	D	18,000	19,000	11,000	7,000
Very dissatisfied	24,000	D	D	S	7,000	S	S
Engineers	2,263,000	204,000	570,000	658,000	525,000	39,000	267,000
Very satisfied	1,052,000	101,000	256,000	304,000	248,000	17,000	126,000
Somewhat satisfied	1,031,000	91,000	269,000	304,000	228,000	21,000	118,000
Somewhat dissatisfied	144,000	9,000	35,000	39,000	43,000	2,000	16,000
Very dissatisfied	37,000	S	11,000	10,000	6,000	D	7,000

TABLE 3-3

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and primary work activity: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Primary work activity					
		Computer applications	Design[b]	Management and administration[c]	Research and development[d]	Teaching	Other[e]
S&E-related occupations	11,253,000	538,000	343,000	2,219,000	818,000	1,046,000	6,288,000
Very satisfied	4,965,000	223,000	169,000	980,000	329,000	440,000	2,824,000
Somewhat satisfied	5,229,000	268,000	141,000	1,043,000	381,000	511,000	2,885,000
Somewhat dissatisfied	847,000	38,000	29,000	161,000	89,000	67,000	462,000
Very dissatisfied	212,000	9,000	3,000	35,000	20,000	28,000	117,000
Non-S&E occupations	36,097,000	303,000	439,000	20,176,000	1,681,000	5,389,000	8,109,000
Very satisfied	15,850,000	138,000	235,000	9,113,000	853,000	2,018,000	3,492,000
Somewhat satisfied	16,437,000	134,000	157,000	9,043,000	692,000	2,781,000	3,630,000
Somewhat dissatisfied	2,883,000	29,000	42,000	1,579,000	103,000	430,000	700,000
Very dissatisfied	926,000	1,000	S	441,000	34,000	160,000	287,000
Female at birth	29,603,000	747,000	515,000	12,640,000	2,026,000	4,915,000	8,759,000
Very satisfied	12,721,000	323,000	257,000	5,659,000	885,000	1,855,000	3,744,000
Somewhat satisfied	13,783,000	357,000	196,000	5,682,000	916,000	2,535,000	4,097,000
Somewhat dissatisfied	2,338,000	63,000	58,000	986,000	186,000	374,000	670,000
Very dissatisfied	761,000	4,000	4,000	313,000	40,000	151,000	248,000
S&E occupations	2,586,000	475,000	189,000	683,000	697,000	198,000	344,000
Very satisfied	1,158,000	218,000	83,000	316,000	303,000	78,000	159,000
Somewhat satisfied	1,164,000	219,000	87,000	293,000	323,000	100,000	143,000
Somewhat dissatisfied	203,000	36,000	17,000	59,000	55,000	14,000	23,000
Very dissatisfied	61,000	3,000	2,000	15,000	17,000	S	19,000
Biological, agricultural, and other life scientists	405,000	S	5,000	82,000	210,000	45,000	55,000
Very satisfied	186,000	1,000	3,000	35,000	96,000	21,000	29,000
Somewhat satisfied	186,000	S	2,000	42,000	91,000	21,000	25,000
Somewhat dissatisfied	24,000	D	D	4,000	16,000	3,000	1,000
Very dissatisfied	9,000	D	D	S	S	D	D
Computer and mathematical scientists	1,214,000	428,000	100,000	372,000	166,000	38,000	110,000
Very satisfied	531,000	194,000	39,000	168,000	66,000	18,000	44,000
Somewhat satisfied	555,000	196,000	46,000	161,000	86,000	18,000	47,000
Somewhat dissatisfied	104,000	34,000	S	33,000	11,000	2,000	10,000
Very dissatisfied	24,000	3,000	D	10,000	3,000	D	S
Physical and related scientists	160,000	2,000	2,000	38,000	65,000	16,000	36,000
Very satisfied	65,000	S	S	16,000	27,000	5,000	15,000
Somewhat satisfied	78,000	1,000	1,000	17,000	33,000	10,000	16,000
Somewhat dissatisfied	12,000	D	D	3,000	4,000	S	3,000
Very dissatisfied	5,000	D	D	D	S	D	S

TABLE 3-3

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and primary work activity: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Primary work activity					
		Computer applications	Design[b]	Management and administration[c]	Research and development[d]	Teaching	Other[e]
Social and related scientists	398,000	S	5,000	69,000	146,000	91,000	86,000
Very satisfied	177,000	D	S	38,000	61,000	31,000	42,000
Somewhat satisfied	171,000	D	2,000	18,000	71,000	48,000	32,000
Somewhat dissatisfied	35,000	D	D	12,000	10,000	7,000	6,000
Very dissatisfied	16,000	D	D	D	3,000	S	D
Engineers	409,000	36,000	77,000	122,000	110,000	8,000	57,000
Very satisfied	200,000	21,000	36,000	58,000	52,000	3,000	28,000
Somewhat satisfied	174,000	14,000	36,000	55,000	42,000	4,000	23,000
Somewhat dissatisfied	28,000	1,000	3,000	6,000	14,000	D	4,000
Very dissatisfied	7,000	D	D	S	S	D	D
S&E-related occupations	6,669,000	126,000	108,000	1,104,000	440,000	639,000	4,251,000
Very satisfied	2,839,000	51,000	53,000	464,000	169,000	246,000	1,857,000
Somewhat satisfied	3,149,000	62,000	42,000	532,000	190,000	333,000	1,989,000
Somewhat dissatisfied	551,000	S	11,000	86,000	S	38,000	333,000
Very dissatisfied	130,000	D	S	22,000	S	23,000	72,000
Non-S&E occupations	20,349,000	146,000	219,000	10,853,000	889,000	4,078,000	4,164,000
Very satisfied	8,724,000	54,000	121,000	4,879,000	413,000	1,530,000	1,728,000
Somewhat satisfied	9,470,000	76,000	67,000	4,857,000	403,000	2,102,000	1,966,000
Somewhat dissatisfied	1,584,000	S	30,000	842,000	61,000	323,000	314,000
Very dissatisfied	570,000	D	D	276,000	13,000	123,000	157,000
Male at birth	26,458,000	2,517,000	1,177,000	11,728,000	2,493,000	1,963,000	6,580,000
Very satisfied	11,987,000	1,148,000	556,000	5,288,000	1,208,000	797,000	2,989,000
Somewhat satisfied	11,909,000	1,176,000	517,000	5,323,000	1,072,000	967,000	2,854,000
Somewhat dissatisfied	2,036,000	166,000	88,000	914,000	162,000	154,000	552,000
Very dissatisfied	526,000	26,000	16,000	203,000	51,000	46,000	185,000
S&E occupations	6,126,000	1,947,000	722,000	1,291,000	1,323,000	246,000	598,000
Very satisfied	2,736,000	892,000	324,000	538,000	608,000	115,000	258,000
Somewhat satisfied	2,861,000	912,000	328,000	626,000	592,000	110,000	294,000
Somewhat dissatisfied	441,000	126,000	58,000	102,000	102,000	18,000	35,000
Very dissatisfied	88,000	17,000	12,000	25,000	21,000	3,000	11,000
Biological, agricultural, and other life scientists	408,000	10,000	9,000	76,000	222,000	44,000	47,000
Very satisfied	177,000	S	1,000	26,000	101,000	20,000	28,000
Somewhat satisfied	196,000	8,000	S	43,000	101,000	20,000	16,000
Somewhat dissatisfied	29,000	D	D	4,000	18,000	3,000	2,000
Very dissatisfied	6,000	D	D	D	2,000	D	D

TABLE 3-3

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and primary work activity: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Primary work activity					
		Computer applications	Design[b]	Management and administration[c]	Research and development[d]	Teaching	Other[e]
Computer and mathematical scientists	3,360,000	1,757,000	215,000	596,000	444,000	81,000	267,000
Very satisfied	1,473,000	805,000	101,000	235,000	198,000	41,000	92,000
Somewhat satisfied	1,586,000	822,000	86,000	293,000	199,000	31,000	155,000
Somewhat dissatisfied	259,000	115,000	26,000	55,000	39,000	7,000	17,000
Very dissatisfied	41,000	14,000	S	12,000	S	D	S
Physical and related scientists	270,000	8,000	4,000	40,000	149,000	30,000	40,000
Very satisfied	125,000	4,000	S	19,000	71,000	12,000	17,000
Somewhat satisfied	127,000	2,000	2,000	20,000	69,000	16,000	19,000
Somewhat dissatisfied	15,000	D	D	2,000	7,000	1,000	3,000
Very dissatisfied	4,000	D	D	D	2,000	D	D
Social and related scientists	233,000	3,000	1,000	43,000	92,000	59,000	35,000
Very satisfied	109,000	1,000	D	14,000	43,000	28,000	24,000
Somewhat satisfied	95,000	1,000	D	20,000	37,000	26,000	9,000
Somewhat dissatisfied	22,000	D	D	S	9,000	4,000	2,000
Very dissatisfied	8,000	D	D	D	S	S	D
Engineers	1,855,000	168,000	493,000	536,000	415,000	32,000	210,000
Very satisfied	853,000	81,000	220,000	246,000	196,000	13,000	98,000
Somewhat satisfied	857,000	78,000	233,000	249,000	186,000	17,000	95,000
Somewhat dissatisfied	116,000	8,000	31,000	34,000	29,000	2,000	12,000
Very dissatisfied	29,000	S	9,000	8,000	4,000	D	5,000
S&E-related occupations	4,584,000	413,000	235,000	1,115,000	378,000	407,000	2,037,000
Very satisfied	2,125,000	172,000	117,000	516,000	160,000	194,000	967,000
Somewhat satisfied	2,080,000	206,000	99,000	510,000	190,000	178,000	896,000
Somewhat dissatisfied	296,000	26,000	18,000	75,000	19,000	29,000	129,000
Very dissatisfied	82,000	8,000	S	13,000	S	5,000	45,000
Non-S&E occupations	15,748,000	157,000	220,000	9,323,000	792,000	1,311,000	3,945,000
Very satisfied	7,125,000	84,000	115,000	4,234,000	440,000	488,000	1,764,000
Somewhat satisfied	6,967,000	58,000	90,000	4,186,000	289,000	679,000	1,664,000
Somewhat dissatisfied	1,299,000	14,000	12,000	737,000	42,000	107,000	387,000
Very dissatisfied	356,000	D	S	165,000	S	37,000	130,000
Female gender identity	29,454,000	745,000	511,000	12,575,000	2,020,000	4,902,000	8,701,000
Very satisfied	12,676,000	318,000	252,000	5,638,000	881,000	1,855,000	3,732,000
Somewhat satisfied	13,706,000	359,000	197,000	5,652,000	913,000	2,524,000	4,061,000
Somewhat dissatisfied	2,314,000	63,000	59,000	972,000	185,000	373,000	662,000
Very dissatisfied	758,000	4,000	4,000	313,000	40,000	151,000	246,000

TABLE 3-3

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and primary work activity: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Primary work activity					
		Computer applications	Design[b]	Management and administration[c]	Research and development[d]	Teaching	Other[e]
S&E occupations	2,566,000	469,000	189,000	679,000	693,000	192,000	344,000
Very satisfied	1,144,000	213,000	83,000	314,000	303,000	72,000	159,000
Somewhat satisfied	1,158,000	217,000	87,000	292,000	320,000	100,000	142,000
Somewhat dissatisfied	202,000	35,000	17,000	59,000	54,000	14,000	23,000
Very dissatisfied	61,000	4,000	2,000	15,000	17,000	S	19,000
Biological, agricultural, and other life scientists	400,000	S	5,000	81,000	208,000	44,000	55,000
Very satisfied	182,000	1,000	3,000	34,000	94,000	21,000	29,000
Somewhat satisfied	185,000	S	2,000	42,000	90,000	21,000	25,000
Somewhat dissatisfied	24,000	D	D	4,000	16,000	3,000	1,000
Very dissatisfied	9,000	D	D	S	S	D	D
Computer and mathematical scientists	1,206,000	423,000	100,000	370,000	165,000	38,000	110,000
Very satisfied	524,000	190,000	39,000	166,000	66,000	18,000	44,000
Somewhat satisfied	552,000	196,000	46,000	160,000	86,000	18,000	47,000
Somewhat dissatisfied	104,000	34,000	14,000	33,000	10,000	2,000	10,000
Very dissatisfied	25,000	3,000	D	9,000	3,000	D	S
Physical and related scientists	159,000	2,000	2,000	38,000	65,000	16,000	36,000
Very satisfied	64,000	S	S	16,000	27,000	5,000	15,000
Somewhat satisfied	78,000	1,000	1,000	17,000	32,000	10,000	16,000
Somewhat dissatisfied	12,000	D	D	3,000	4,000	S	3,000
Very dissatisfied	5,000	D	D	D	S	D	S
Social and related scientists	390,000	S	5,000	69,000	143,000	85,000	86,000
Very satisfied	171,000	D	S	38,000	61,000	25,000	42,000
Somewhat satisfied	169,000	D	2,000	18,000	69,000	48,000	32,000
Somewhat dissatisfied	34,000	D	D	12,000	10,000	7,000	6,000
Very dissatisfied	16,000	D	D	D	3,000	S	D
Engineers	411,000	36,000	77,000	121,000	113,000	8,000	57,000
Very satisfied	202,000	21,000	36,000	58,000	55,000	3,000	28,000
Somewhat satisfied	174,000	14,000	36,000	55,000	42,000	4,000	23,000
Somewhat dissatisfied	27,000	1,000	3,000	6,000	14,000	D	4,000
Very dissatisfied	7,000	D	D	S	S	D	D
S&E-related occupations	6,645,000	129,000	108,000	1,100,000	438,000	639,000	4,230,000
Very satisfied	2,838,000	51,000	52,000	463,000	168,000	246,000	1,858,000
Somewhat satisfied	3,130,000	66,000	42,000	530,000	189,000	332,000	1,971,000
Somewhat dissatisfied	549,000	S	11,000	85,000	S	37,000	332,000
Very dissatisfied	128,000	D	S	22,000	S	23,000	70,000

TABLE 3-3

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and primary work activity: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Primary work activity					
		Computer applications	Design[b]	Management and administration[c]	Research and development[d]	Teaching	Other[e]
Non-S&E occupations	20,243,000	146,000	214,000	10,796,000	889,000	4,072,000	4,127,000
Very satisfied	8,693,000	54,000	116,000	4,862,000	411,000	1,536,000	1,715,000
Somewhat satisfied	9,419,000	76,000	67,000	4,831,000	405,000	2,092,000	1,948,000
Somewhat dissatisfied	1,562,000	S	30,000	827,000	61,000	322,000	307,000
Very dissatisfied	569,000	D	D	275,000	13,000	123,000	157,000
Male gender identity	26,360,000	2,503,000	1,174,000	11,709,000	2,483,000	1,958,000	6,533,000
Very satisfied	11,949,000	1,149,000	556,000	5,288,000	1,204,000	798,000	2,955,000
Somewhat satisfied	11,877,000	1,166,000	516,000	5,314,000	1,069,000	963,000	2,848,000
Somewhat dissatisfied	2,019,000	163,000	87,000	912,000	160,000	153,000	545,000
Very dissatisfied	515,000	26,000	15,000	196,000	51,000	44,000	184,000
S&E occupations	6,108,000	1,942,000	720,000	1,288,000	1,314,000	248,000	597,000
Very satisfied	2,734,000	893,000	324,000	537,000	602,000	120,000	258,000
Somewhat satisfied	2,850,000	907,000	327,000	624,000	592,000	106,000	293,000
Somewhat dissatisfied	438,000	126,000	57,000	101,000	100,000	18,000	35,000
Very dissatisfied	87,000	16,000	11,000	25,000	21,000	3,000	11,000
Biological, agricultural, and other life scientists	406,000	10,000	9,000	76,000	220,000	44,000	47,000
Very satisfied	175,000	S	1,000	26,000	99,000	20,000	28,000
Somewhat satisfied	196,000	8,000	S	43,000	101,000	20,000	16,000
Somewhat dissatisfied	29,000	D	D	4,000	18,000	3,000	2,000
Very dissatisfied	6,000	D	D	D	2,000	D	D
Computer and mathematical scientists	3,348,000	1,753,000	214,000	593,000	441,000	81,000	266,000
Very satisfied	1,471,000	806,000	101,000	234,000	197,000	41,000	92,000
Somewhat satisfied	1,580,000	818,000	86,000	292,000	198,000	31,000	154,000
Somewhat dissatisfied	258,000	115,000	26,000	55,000	38,000	7,000	16,000
Very dissatisfied	40,000	13,000	D	12,000	S	D	S
Physical and related scientists	270,000	8,000	4,000	40,000	149,000	30,000	40,000
Very satisfied	125,000	4,000	S	19,000	71,000	12,000	17,000
Somewhat satisfied	127,000	2,000	2,000	20,000	69,000	16,000	18,000
Somewhat dissatisfied	15,000	D	D	2,000	7,000	1,000	3,000
Very dissatisfied	4,000	D	D	D	2,000	D	D
Social and related scientists	235,000	3,000	1,000	42,000	92,000	62,000	35,000
Very satisfied	112,000	1,000	D	14,000	41,000	33,000	24,000
Somewhat satisfied	93,000	1,000	D	20,000	38,000	23,000	9,000
Somewhat dissatisfied	22,000	D	D	S	9,000	4,000	2,000
Very dissatisfied	8,000	D	D	D	S	S	D

TABLE 3-3

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and primary work activity: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Primary work activity					
		Computer applications	Design[b]	Management and administration[c]	Research and development[d]	Teaching	Other[e]
Engineers	1,848,000	167,000	492,000	536,000	411,000	32,000	210,000
Very satisfied	850,000	81,000	220,000	245,000	194,000	13,000	98,000
Somewhat satisfied	854,000	76,000	232,000	249,000	185,000	17,000	95,000
Somewhat dissatisfied	115,000	8,000	31,000	34,000	28,000	2,000	12,000
Very dissatisfied	29,000	S	9,000	8,000	4,000	D	5,000
S&E-related occupations	4,563,000	407,000	235,000	1,111,000	377,000	407,000	2,025,000
Very satisfied	2,118,000	171,000	117,000	516,000	160,000	194,000	960,000
Somewhat satisfied	2,067,000	201,000	99,000	507,000	190,000	178,000	892,000
Somewhat dissatisfied	295,000	26,000	17,000	75,000	18,000	29,000	128,000
Very dissatisfied	82,000	8,000	S	13,000	S	5,000	45,000
Non-S&E occupations	15,689,000	154,000	219,000	9,310,000	792,000	1,303,000	3,911,000
Very satisfied	7,097,000	84,000	115,000	4,235,000	442,000	484,000	1,737,000
Somewhat satisfied	6,959,000	58,000	90,000	4,182,000	287,000	679,000	1,663,000
Somewhat dissatisfied	1,286,000	11,000	12,000	735,000	42,000	105,000	382,000
Very dissatisfied	346,000	D	D	158,000	S	36,000	129,000
Transgender identity	102,000	14,000	2,000	31,000	10,000	S	29,000
Very satisfied	38,000	4,000	D	13,000	5,000	S	10,000
Somewhat satisfied	36,000	6,000	S	S	3,000	S	8,000
Somewhat dissatisfied	18,000	D	D	S	S	D	S
Very dissatisfied	S	D	D	S	D	D	D
S&E occupations	30,000	9,000	2,000	S	8,000	S	2,000
Very satisfied	17,000	4,000	D	D	4,000	D	2,000
Somewhat satisfied	10,000	5,000	S	D	2,000	D	D
Somewhat dissatisfied	S	D	D	D	S	D	D
Very dissatisfied	D	D	D	D	D	D	D
Biological, agricultural, and other life scientists	S	D	D	D	S	D	D
Very satisfied	S	D	D	D	S	D	D
Somewhat satisfied	1,000	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D
Computer and mathematical scientists	16,000	9,000	D	S	2,000	D	2,000
Very satisfied	6,000	3,000	D	D	D	D	D
Somewhat satisfied	7,000	4,000	D	D	S	D	D
Somewhat dissatisfied	1,000	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D

TABLE 3-3

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and primary work activity: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Primary work activity					
		Computer applications	Design[b]	Management and administration[c]	Research and development[d]	Teaching	Other[e]
Physical and related scientists	1,000	D	D	D	D	D	D
Very satisfied	D	D	D	D	D	D	D
Somewhat satisfied	D	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D
Social and related scientists	S	D	D	D	D	D	D
Very satisfied	D	D	D	D	D	D	D
Somewhat satisfied	D	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D
Engineers	4,000	D	S	D	S	D	D
Very satisfied	1,000	D	D	D	*	D	D
Somewhat satisfied	2,000	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D
S&E-related occupations	15,000	S	D	D	S	D	10,000
Very satisfied	8,000	D	D	D	D	D	S
Somewhat satisfied	6,000	D	D	D	D	D	3,000
Somewhat dissatisfied	1,000	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D
Non-S&E occupations	57,000	D	D	27,000	D	S	16,000
Very satisfied	14,000	D	D	11,000	D	D	S
Somewhat satisfied	S	D	D	S	D	S	S
Somewhat dissatisfied	S	D	D	S	D	D	D
Very dissatisfied	S	D	D	S	D	D	D
Different term used for gender identity	256,000	16,000	10,000	82,000	16,000	26,000	106,000
Very satisfied	90,000	7,000	S	21,000	5,000	S	S
Somewhat satisfied	117,000	8,000	S	43,000	9,000	S	41,000
Somewhat dissatisfied	41,000	D	*	S	2,000	S	18,000
Very dissatisfied	7,000	D	D	S	D	D	D
S&E occupations	44,000	14,000	S	8,000	11,000	S	2,000
Very satisfied	20,000	6,000	D	4,000	4,000	D	2,000
Somewhat satisfied	21,000	7,000	D	S	6,000	S	S
Somewhat dissatisfied	3,000	D	D	D	S	D	D
Very dissatisfied	D	D	D	D	D	D	D

TABLE 3-3

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and primary work activity: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Primary work activity					
		Computer applications	Design[b]	Management and administration[c]	Research and development[d]	Teaching	Other[e]
Biological, agricultural, and other life scientists	6,000	D	D	D	S	D	S
Very satisfied	5,000	D	D	D	S	D	D
Somewhat satisfied	1,000	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D
Computer and mathematical scientists	19,000	10,000	D	6,000	2,000	D	D
Very satisfied	8,000	4,000	D	3,000	D	D	D
Somewhat satisfied	10,000	S	D	D	S	D	D
Somewhat dissatisfied	1,000	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D
Physical and related scientists	1,000	D	D	D	D	D	D
Very satisfied	D	D	D	D	D	D	D
Somewhat satisfied	1,000	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D
Social and related scientists	7,000	D	D	D	3,000	S	S
Very satisfied	1,000	D	D	D	D	D	S
Somewhat satisfied	S	D	D	D	D	D	D
Somewhat dissatisfied	S	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D
Engineers	10,000	D	S	D	S	D	D
Very satisfied	S	D	D	D	D	D	D
Somewhat satisfied	S	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D
S&E-related occupations	48,000	S	D	S	3,000	*	37,000
Very satisfied	S	D	D	D	D	D	S
Somewhat satisfied	31,000	D	D	D	S	D	22,000
Somewhat dissatisfied	S	D	D	D	D	D	S
Very dissatisfied	D	D	D	D	D	D	D
Non-S&E occupations	164,000	D	S	68,000	S	21,000	67,000
Very satisfied	65,000	D	D	17,000	D	S	S
Somewhat satisfied	65,000	D	D	34,000	D	S	S
Somewhat dissatisfied	28,000	D	D	S	D	S	S
Very dissatisfied	5,000	D	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.

[a] Gender identity estimates are tabulated based on "mark all that apply" responses to the following question, "How do you currently describe yourself? 1. Male, 2. Female, 3. Transgender, and 4. I use a different term." Thus, these four gender identity categories are not mutually exclusive.
[b] Design is no longer included in the definition of "Other" and is now its own category.
[c] 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.
[d] Research and development includes basic research, applied research, and development.
[e] Other work activity includes production, operations, and 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 and multiple response options for the gender identity question.

Source(s):
National Center for Science and Engineering Statistics, National Survey of College Graduates, 2023.

TABLE 3-4

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and years since highest degree: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Years since highest degree[b]							
		< 5	5–9	10–14	15–19	20–24	25–29	30–34	≥ 35
All sexes and gender identities	56,061,000	8,261,000	10,776,000	8,849,000	7,322,000	5,599,000	4,848,000	3,897,000	6,507,000
Very satisfied	24,708,000	2,983,000	4,217,000	3,653,000	3,076,000	2,703,000	2,266,000	1,987,000	3,823,000
Somewhat satisfied	25,691,000	4,245,000	5,220,000	4,192,000	3,509,000	2,440,000	2,137,000	1,649,000	2,299,000
Somewhat dissatisfied	4,374,000	765,000	1,010,000	750,000	584,000	379,000	354,000	214,000	318,000
Very dissatisfied	1,287,000	268,000	330,000	255,000	153,000	77,000	91,000	47,000	66,000
S&E occupations	8,711,000	1,573,000	2,030,000	1,377,000	1,110,000	766,000	698,000	501,000	655,000
Very satisfied	3,894,000	658,000	856,000	581,000	486,000	369,000	332,000	252,000	360,000
Somewhat satisfied	4,025,000	756,000	941,000	660,000	529,000	351,000	310,000	218,000	260,000
Somewhat dissatisfied	644,000	123,000	192,000	111,000	81,000	37,000	39,000	29,000	32,000
Very dissatisfied	149,000	36,000	41,000	25,000	15,000	9,000	17,000	1,000	3,000
Biological, agricultural, and other life scientists	813,000	182,000	195,000	130,000	78,000	61,000	64,000	44,000	59,000
Very satisfied	363,000	91,000	81,000	43,000	26,000	25,000	30,000	30,000	36,000
Somewhat satisfied	382,000	77,000	92,000	76,000	45,000	31,000	27,000	13,000	20,000
Somewhat dissatisfied	53,000	9,000	19,000	9,000	6,000	3,000	5,000	1,000	S
Very dissatisfied	15,000	S	3,000	1,000	1,000	2,000	D	D	D
Computer and mathematical scientists	4,573,000	728,000	1,053,000	739,000	661,000	450,000	382,000	264,000	295,000
Very satisfied	2,004,000	282,000	452,000	307,000	298,000	217,000	182,000	119,000	146,000
Somewhat satisfied	2,141,000	371,000	481,000	355,000	306,000	205,000	172,000	124,000	127,000
Somewhat dissatisfied	363,000	56,000	103,000	69,000	49,000	24,000	21,000	20,000	21,000
Very dissatisfied	65,000	19,000	17,000	8,000	S	3,000	S	D	D
Physical and related scientists	430,000	96,000	101,000	57,000	42,000	35,000	28,000	29,000	43,000
Very satisfied	190,000	39,000	36,000	24,000	18,000	17,000	15,000	14,000	26,000
Somewhat satisfied	205,000	46,000	55,000	28,000	21,000	14,000	12,000	14,000	16,000
Somewhat dissatisfied	27,000	9,000	8,000	4,000	2,000	2,000	S	S	1,000
Very dissatisfied	9,000	S	S	2,000	S	D	D	D	D
Social and related scientists	631,000	157,000	150,000	97,000	75,000	40,000	39,000	29,000	45,000
Very satisfied	285,000	71,000	62,000	38,000	27,000	20,000	20,000	16,000	31,000
Somewhat satisfied	266,000	72,000	62,000	38,000	38,000	17,000	13,000	S	12,000
Somewhat dissatisfied	57,000	12,000	21,000	12,000	S	S	2,000	S	D
Very dissatisfied	24,000	2,000	S	S	D	D	D	D	D
Engineers	2,263,000	410,000	531,000	354,000	255,000	180,000	184,000	135,000	214,000
Very satisfied	1,052,000	176,000	224,000	170,000	116,000	89,000	84,000	73,000	120,000
Somewhat satisfied	1,031,000	189,000	251,000	163,000	119,000	83,000	86,000	54,000	85,000
Somewhat dissatisfied	144,000	38,000	41,000	17,000	17,000	6,000	10,000	6,000	8,000
Very dissatisfied	37,000	7,000	15,000	4,000	3,000	2,000	S	S	S

TABLE 3-4

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and years since highest degree: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Years since highest degree[b]							
		< 5	5–9	10–14	15–19	20–24	25–29	30–34	≥ 35
S&E-related occupations	11,253,000	2,192,000	2,436,000	1,799,000	1,232,000	1,022,000	833,000	663,000	1,075,000
Very satisfied	4,965,000	787,000	982,000	760,000	536,000	474,000	428,000	352,000	646,000
Somewhat satisfied	5,229,000	1,144,000	1,206,000	852,000	572,000	456,000	344,000	286,000	368,000
Somewhat dissatisfied	847,000	211,000	186,000	145,000	108,000	86,000	51,000	22,000	38,000
Very dissatisfied	212,000	50,000	61,000	43,000	16,000	5,000	10,000	S	24,000
Non-S&E occupations	36,097,000	4,496,000	6,310,000	5,673,000	4,980,000	3,811,000	3,317,000	2,733,000	4,776,000
Very satisfied	15,850,000	1,537,000	2,379,000	2,312,000	2,055,000	1,860,000	1,506,000	1,383,000	2,818,000
Somewhat satisfied	16,437,000	2,346,000	3,072,000	2,680,000	2,408,000	1,633,000	1,483,000	1,145,000	1,670,000
Somewhat dissatisfied	2,883,000	431,000	632,000	494,000	394,000	256,000	264,000	163,000	248,000
Very dissatisfied	926,000	182,000	227,000	187,000	122,000	62,000	64,000	42,000	40,000
Female at birth	29,603,000	4,759,000	5,918,000	4,855,000	3,947,000	2,909,000	2,495,000	1,846,000	2,874,000
Very satisfied	12,721,000	1,703,000	2,308,000	2,007,000	1,656,000	1,358,000	1,065,000	934,000	1,690,000
Somewhat satisfied	13,783,000	2,478,000	2,877,000	2,306,000	1,880,000	1,305,000	1,138,000	784,000	1,016,000
Somewhat dissatisfied	2,338,000	423,000	535,000	387,000	323,000	207,000	218,000	101,000	145,000
Very dissatisfied	761,000	156,000	198,000	155,000	88,000	39,000	74,000	28,000	24,000
S&E occupations	2,586,000	547,000	634,000	407,000	325,000	202,000	187,000	130,000	154,000
Very satisfied	1,158,000	229,000	276,000	177,000	134,000	101,000	88,000	69,000	84,000
Somewhat satisfied	1,164,000	264,000	288,000	184,000	153,000	84,000	78,000	52,000	61,000
Somewhat dissatisfied	203,000	41,000	57,000	34,000	28,000	12,000	12,000	9,000	S
Very dissatisfied	61,000	13,000	13,000	S	10,000	4,000	S	D	D
Biological, agricultural, and other life scientists	405,000	104,000	94,000	67,000	40,000	29,000	24,000	22,000	24,000
Very satisfied	186,000	51,000	40,000	23,000	15,000	14,000	12,000	17,000	14,000
Somewhat satisfied	186,000	45,000	42,000	40,000	22,000	12,000	10,000	5,000	10,000
Somewhat dissatisfied	24,000	4,000	10,000	4,000	3,000	2,000	S	D	D
Very dissatisfied	9,000	S	S	D	D	D	D	D	D
Computer and mathematical scientists	1,214,000	185,000	297,000	192,000	177,000	105,000	104,000	62,000	92,000
Very satisfied	531,000	69,000	130,000	83,000	72,000	54,000	43,000	30,000	50,000
Somewhat satisfied	555,000	99,000	135,000	89,000	81,000	45,000	48,000	24,000	35,000
Somewhat dissatisfied	104,000	S	26,000	17,000	18,000	6,000	S	S	S
Very dissatisfied	24,000	S	6,000	3,000	S	D	D	D	D
Physical and related scientists	160,000	39,000	40,000	28,000	19,000	10,000	8,000	8,000	8,000
Very satisfied	65,000	14,000	14,000	12,000	9,000	4,000	6,000	2,000	4,000
Somewhat satisfied	78,000	20,000	21,000	11,000	8,000	5,000	3,000	6,000	5,000
Somewhat dissatisfied	12,000	4,000	3,000	S	S	S	D	D	D
Very dissatisfied	5,000	D	S	S	D	D	D	D	D

TABLE 3-4

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and years since highest degree: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Years since highest degree[b]							
		< 5	5–9	10–14	15–19	20–24	25–29	30–34	≥ 35
Social and related scientists	398,000	106,000	93,000	68,000	51,000	23,000	22,000	22,000	13,000
Very satisfied	177,000	42,000	43,000	30,000	21,000	11,000	10,000	10,000	10,000
Somewhat satisfied	171,000	54,000	35,000	22,000	26,000	10,000	9,000	S	3,000
Somewhat dissatisfied	35,000	8,000	12,000	9,000	S	S	S	D	D
Very dissatisfied	16,000	2,000	3,000	D	D	D	D	D	D
Engineers	409,000	112,000	111,000	53,000	38,000	34,000	28,000	16,000	17,000
Very satisfied	200,000	53,000	48,000	29,000	17,000	18,000	17,000	10,000	7,000
Somewhat satisfied	174,000	46,000	54,000	22,000	16,000	13,000	9,000	6,000	9,000
Somewhat dissatisfied	28,000	S	6,000	2,000	3,000	2,000	D	D	D
Very dissatisfied	7,000	D	S	D	D	D	D	D	D
S&E-related occupations	6,669,000	1,442,000	1,559,000	1,094,000	677,000	558,000	440,000	358,000	540,000
Very satisfied	2,839,000	468,000	636,000	448,000	295,000	250,000	229,000	192,000	320,000
Somewhat satisfied	3,149,000	766,000	762,000	530,000	313,000	258,000	172,000	152,000	196,000
Somewhat dissatisfied	551,000	170,000	116,000	94,000	60,000	50,000	31,000	11,000	19,000
Very dissatisfied	130,000	38,000	44,000	23,000	S	D	S	D	D
Non-S&E occupations	20,349,000	2,770,000	3,725,000	3,354,000	2,946,000	2,149,000	1,868,000	1,358,000	2,180,000
Very satisfied	8,724,000	1,006,000	1,397,000	1,382,000	1,227,000	1,007,000	748,000	672,000	1,286,000
Somewhat satisfied	9,470,000	1,448,000	1,826,000	1,593,000	1,414,000	963,000	887,000	579,000	759,000
Somewhat dissatisfied	1,584,000	212,000	361,000	259,000	235,000	144,000	176,000	81,000	117,000
Very dissatisfied	570,000	105,000	141,000	120,000	70,000	34,000	S	25,000	18,000
Male at birth	26,458,000	3,502,000	4,858,000	3,994,000	3,375,000	2,691,000	2,353,000	2,051,000	3,634,000
Very satisfied	11,987,000	1,280,000	1,908,000	1,646,000	1,420,000	1,344,000	1,201,000	1,053,000	2,134,000
Somewhat satisfied	11,909,000	1,767,000	2,343,000	1,886,000	1,629,000	1,136,000	999,000	865,000	1,284,000
Somewhat dissatisfied	2,036,000	342,000	475,000	362,000	261,000	173,000	136,000	113,000	173,000
Very dissatisfied	526,000	112,000	131,000	100,000	65,000	38,000	17,000	20,000	43,000
S&E occupations	6,126,000	1,027,000	1,396,000	970,000	786,000	565,000	511,000	370,000	501,000
Very satisfied	2,736,000	429,000	580,000	404,000	352,000	268,000	244,000	183,000	276,000
Somewhat satisfied	2,861,000	492,000	653,000	476,000	376,000	267,000	232,000	166,000	200,000
Somewhat dissatisfied	441,000	82,000	135,000	76,000	53,000	24,000	27,000	20,000	23,000
Very dissatisfied	88,000	23,000	28,000	13,000	6,000	6,000	8,000	1,000	2,000
Biological, agricultural, and other life scientists	408,000	78,000	101,000	63,000	37,000	32,000	40,000	21,000	35,000
Very satisfied	177,000	40,000	41,000	20,000	12,000	11,000	19,000	13,000	23,000
Somewhat satisfied	196,000	32,000	50,000	36,000	23,000	19,000	16,000	8,000	11,000
Somewhat dissatisfied	29,000	5,000	9,000	5,000	2,000	1,000	S	*	S
Very dissatisfied	6,000	*	1,000	S	D	S	D	D	D

TABLE 3-4

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and years since highest degree: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Years since highest degree[b]							
		< 5	5–9	10–14	15–19	20–24	25–29	30–34	≥ 35
Computer and mathematical scientists	3,360,000	543,000	756,000	547,000	485,000	345,000	278,000	202,000	204,000
Very satisfied	1,473,000	213,000	322,000	224,000	226,000	164,000	139,000	89,000	97,000
Somewhat satisfied	1,586,000	272,000	346,000	266,000	225,000	161,000	124,000	100,000	92,000
Somewhat dissatisfied	259,000	42,000	77,000	52,000	30,000	18,000	14,000	12,000	14,000
Very dissatisfied	41,000	17,000	11,000	5,000	S	S	D	D	D
Physical and related scientists	270,000	57,000	62,000	30,000	23,000	25,000	19,000	21,000	34,000
Very satisfied	125,000	25,000	22,000	11,000	9,000	13,000	9,000	13,000	23,000
Somewhat satisfied	127,000	26,000	34,000	16,000	13,000	10,000	9,000	7,000	11,000
Somewhat dissatisfied	15,000	5,000	5,000	1,000	1,000	S	S	D	*
Very dissatisfied	4,000	D	D	S	D	D	D	D	D
Social and related scientists	233,000	50,000	57,000	29,000	24,000	17,000	17,000	7,000	31,000
Very satisfied	109,000	29,000	20,000	8,000	6,000	9,000	10,000	6,000	22,000
Somewhat satisfied	95,000	18,000	27,000	16,000	12,000	7,000	4,000	1,000	9,000
Somewhat dissatisfied	22,000	4,000	9,000	3,000	S	D	D	D	D
Very dissatisfied	8,000	D	D	D	D	D	D	D	D
Engineers	1,855,000	298,000	420,000	302,000	217,000	146,000	156,000	119,000	197,000
Very satisfied	853,000	123,000	176,000	141,000	99,000	71,000	68,000	63,000	113,000
Somewhat satisfied	857,000	143,000	197,000	141,000	103,000	70,000	77,000	48,000	77,000
Somewhat dissatisfied	116,000	27,000	35,000	15,000	14,000	4,000	9,000	6,000	7,000
Very dissatisfied	29,000	S	13,000	4,000	2,000	1,000	S	S	S
S&E-related occupations	4,584,000	750,000	877,000	705,000	556,000	464,000	393,000	305,000	536,000
Very satisfied	2,125,000	319,000	346,000	312,000	240,000	224,000	199,000	159,000	325,000
Somewhat satisfied	2,080,000	378,000	444,000	322,000	259,000	199,000	172,000	133,000	173,000
Somewhat dissatisfied	296,000	41,000	70,000	51,000	49,000	36,000	20,000	10,000	19,000
Very dissatisfied	82,000	12,000	17,000	20,000	7,000	S	2,000	S	18,000
Non-S&E occupations	15,748,000	1,726,000	2,585,000	2,319,000	2,034,000	1,662,000	1,450,000	1,376,000	2,597,000
Very satisfied	7,125,000	532,000	982,000	930,000	828,000	852,000	758,000	711,000	1,532,000
Somewhat satisfied	6,967,000	898,000	1,246,000	1,087,000	994,000	670,000	595,000	566,000	911,000
Somewhat dissatisfied	1,299,000	219,000	271,000	235,000	160,000	112,000	89,000	83,000	131,000
Very dissatisfied	356,000	77,000	86,000	67,000	52,000	27,000	7,000	17,000	22,000
Female gender identity	29,454,000	4,706,000	5,864,000	4,842,000	3,946,000	2,899,000	2,480,000	1,852,000	2,867,000
Very satisfied	12,676,000	1,691,000	2,294,000	1,996,000	1,655,000	1,354,000	1,062,000	934,000	1,689,000
Somewhat satisfied	13,706,000	2,458,000	2,839,000	2,306,000	1,881,000	1,299,000	1,125,000	789,000	1,009,000
Somewhat dissatisfied	2,314,000	402,000	532,000	387,000	322,000	206,000	218,000	101,000	145,000
Very dissatisfied	758,000	154,000	199,000	153,000	88,000	39,000	74,000	28,000	24,000

TABLE 3-4

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and years since highest degree: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Years since highest degree[b]							
		< 5	5–9	10–14	15–19	20–24	25–29	30–34	≥ 35
S&E occupations	2,566,000	532,000	632,000	408,000	324,000	199,000	186,000	130,000	154,000
Very satisfied	1,144,000	221,000	275,000	178,000	133,000	97,000	87,000	69,000	84,000
Somewhat satisfied	1,158,000	258,000	286,000	185,000	153,000	86,000	78,000	51,000	61,000
Somewhat dissatisfied	202,000	40,000	57,000	34,000	29,000	13,000	12,000	9,000	S
Very dissatisfied	61,000	13,000	13,000	S	10,000	4,000	S	D	D
Biological, agricultural, and other life scientists	400,000	101,000	92,000	67,000	40,000	29,000	24,000	22,000	24,000
Very satisfied	182,000	49,000	39,000	23,000	15,000	14,000	12,000	17,000	14,000
Somewhat satisfied	185,000	44,000	42,000	40,000	22,000	12,000	10,000	5,000	10,000
Somewhat dissatisfied	24,000	4,000	10,000	4,000	3,000	2,000	S	D	D
Very dissatisfied	9,000	S	S	D	D	D	D	D	D
Computer and mathematical scientists	1,206,000	183,000	295,000	192,000	177,000	103,000	103,000	62,000	92,000
Very satisfied	524,000	69,000	129,000	83,000	71,000	50,000	43,000	30,000	50,000
Somewhat satisfied	552,000	97,000	134,000	89,000	81,000	46,000	47,000	24,000	35,000
Somewhat dissatisfied	104,000	S	26,000	17,000	18,000	6,000	S	S	S
Very dissatisfied	25,000	3,000	6,000	3,000	S	D	D	D	D
Physical and related scientists	159,000	39,000	40,000	27,000	19,000	10,000	8,000	8,000	8,000
Very satisfied	64,000	14,000	14,000	12,000	9,000	4,000	5,000	2,000	4,000
Somewhat satisfied	78,000	20,000	21,000	11,000	8,000	5,000	3,000	6,000	5,000
Somewhat dissatisfied	12,000	4,000	3,000	S	S	S	D	D	D
Very dissatisfied	5,000	D	S	S	D	D	D	D	D
Social and related scientists	390,000	98,000	92,000	68,000	51,000	23,000	22,000	22,000	13,000
Very satisfied	171,000	36,000	43,000	30,000	21,000	11,000	10,000	10,000	10,000
Somewhat satisfied	169,000	52,000	35,000	22,000	26,000	10,000	9,000	S	3,000
Somewhat dissatisfied	34,000	8,000	12,000	9,000	S	S	S	D	D
Very dissatisfied	16,000	2,000	3,000	D	D	D	D	D	D
Engineers	411,000	111,000	112,000	54,000	38,000	34,000	28,000	16,000	17,000
Very satisfied	202,000	53,000	50,000	30,000	17,000	18,000	17,000	10,000	7,000
Somewhat satisfied	174,000	45,000	54,000	22,000	16,000	13,000	9,000	5,000	9,000
Somewhat dissatisfied	27,000	S	6,000	2,000	3,000	2,000	D	D	D
Very dissatisfied	7,000	D	S	D	D	D	D	D	D
S&E-related occupations	6,645,000	1,431,000	1,550,000	1,092,000	676,000	557,000	439,000	361,000	540,000
Very satisfied	2,838,000	468,000	637,000	447,000	295,000	250,000	227,000	192,000	320,000
Somewhat satisfied	3,130,000	757,000	753,000	528,000	313,000	256,000	172,000	155,000	196,000
Somewhat dissatisfied	549,000	169,000	116,000	94,000	59,000	50,000	31,000	11,000	19,000
Very dissatisfied	128,000	36,000	44,000	23,000	S	D	S	D	D

TABLE 3-4

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and years since highest degree: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Years since highest degree[b]							
		< 5	5–9	10–14	15–19	20–24	25–29	30–34	≥ 35
Non-S&E occupations	20,243,000	2,742,000	3,682,000	3,342,000	2,945,000	2,143,000	1,855,000	1,362,000	2,173,000
Very satisfied	8,693,000	1,002,000	1,382,000	1,371,000	1,226,000	1,007,000	748,000	672,000	1,285,000
Somewhat satisfied	9,419,000	1,443,000	1,800,000	1,593,000	1,415,000	957,000	875,000	583,000	752,000
Somewhat dissatisfied	1,562,000	192,000	358,000	259,000	235,000	144,000	176,000	81,000	117,000
Very dissatisfied	569,000	105,000	142,000	119,000	70,000	34,000	S	25,000	18,000
Male gender identity	26,360,000	3,454,000	4,834,000	3,972,000	3,370,000	2,689,000	2,355,000	2,048,000	3,638,000
Very satisfied	11,949,000	1,249,000	1,895,000	1,647,000	1,418,000	1,347,000	1,203,000	1,056,000	2,133,000
Somewhat satisfied	11,877,000	1,755,000	2,339,000	1,876,000	1,625,000	1,134,000	999,000	859,000	1,291,000
Somewhat dissatisfied	2,019,000	339,000	471,000	356,000	261,000	172,000	136,000	113,000	172,000
Very dissatisfied	515,000	111,000	129,000	94,000	65,000	36,000	17,000	20,000	43,000
S&E occupations	6,108,000	1,024,000	1,387,000	967,000	781,000	566,000	512,000	370,000	501,000
Very satisfied	2,734,000	432,000	574,000	403,000	350,000	271,000	245,000	183,000	276,000
Somewhat satisfied	2,850,000	487,000	651,000	475,000	373,000	266,000	231,000	166,000	200,000
Somewhat dissatisfied	438,000	82,000	133,000	76,000	52,000	24,000	27,000	20,000	23,000
Very dissatisfied	87,000	23,000	28,000	13,000	6,000	6,000	8,000	1,000	2,000
Biological, agricultural, and other life scientists	406,000	78,000	100,000	63,000	37,000	32,000	40,000	21,000	35,000
Very satisfied	175,000	40,000	40,000	20,000	12,000	11,000	19,000	13,000	23,000
Somewhat satisfied	196,000	32,000	50,000	36,000	23,000	19,000	16,000	8,000	11,000
Somewhat dissatisfied	29,000	5,000	9,000	5,000	2,000	1,000	S	*	S
Very dissatisfied	6,000	*	1,000	S	D	S	D	D	D
Computer and mathematical scientists	3,348,000	541,000	751,000	546,000	480,000	347,000	279,000	202,000	204,000
Very satisfied	1,471,000	212,000	319,000	223,000	225,000	167,000	139,000	89,000	97,000
Somewhat satisfied	1,580,000	271,000	344,000	266,000	222,000	160,000	124,000	100,000	92,000
Somewhat dissatisfied	258,000	41,000	76,000	52,000	30,000	18,000	14,000	12,000	14,000
Very dissatisfied	40,000	16,000	11,000	5,000	S	S	D	D	D
Physical and related scientists	270,000	57,000	62,000	30,000	23,000	24,000	19,000	21,000	34,000
Very satisfied	125,000	25,000	22,000	11,000	9,000	13,000	9,000	13,000	23,000
Somewhat satisfied	127,000	26,000	34,000	16,000	13,000	10,000	9,000	7,000	11,000
Somewhat dissatisfied	15,000	5,000	5,000	1,000	1,000	S	S	D	*
Very dissatisfied	4,000	D	D	S	D	D	D	D	D
Social and related scientists	235,000	53,000	57,000	29,000	24,000	17,000	17,000	7,000	31,000
Very satisfied	112,000	33,000	20,000	8,000	6,000	9,000	10,000	6,000	22,000
Somewhat satisfied	93,000	16,000	27,000	16,000	12,000	7,000	4,000	1,000	9,000
Somewhat dissatisfied	22,000	4,000	9,000	3,000	S	D	D	D	D
Very dissatisfied	8,000	D	D	D	D	D	D	D	D

TABLE 3-4

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and years since highest degree: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Years since highest degree[b]							
		< 5	5–9	10–14	15–19	20–24	25–29	30–34	≥ 35
Engineers	1,848,000	297,000	417,000	300,000	217,000	146,000	156,000	119,000	197,000
Very satisfied	850,000	123,000	174,000	141,000	98,000	71,000	68,000	63,000	113,000
Somewhat satisfied	854,000	142,000	196,000	141,000	103,000	70,000	77,000	48,000	77,000
Somewhat dissatisfied	115,000	27,000	33,000	15,000	14,000	4,000	9,000	6,000	7,000
Very dissatisfied	29,000	S	13,000	4,000	2,000	1,000	S	S	S
S&E-related occupations	4,563,000	739,000	872,000	703,000	555,000	463,000	394,000	302,000	534,000
Very satisfied	2,118,000	316,000	342,000	312,000	240,000	224,000	201,000	159,000	324,000
Somewhat satisfied	2,067,000	370,000	442,000	321,000	259,000	199,000	172,000	131,000	173,000
Somewhat dissatisfied	295,000	41,000	70,000	51,000	49,000	36,000	20,000	10,000	18,000
Very dissatisfied	82,000	12,000	17,000	20,000	7,000	S	2,000	S	18,000
Non-S&E occupations	15,689,000	1,691,000	2,576,000	2,302,000	2,034,000	1,660,000	1,449,000	1,375,000	2,603,000
Very satisfied	7,097,000	501,000	979,000	932,000	828,000	852,000	758,000	714,000	1,532,000
Somewhat satisfied	6,959,000	897,000	1,245,000	1,080,000	993,000	669,000	595,000	562,000	918,000
Somewhat dissatisfied	1,286,000	216,000	268,000	228,000	160,000	112,000	89,000	83,000	131,000
Very dissatisfied	346,000	77,000	84,000	61,000	52,000	26,000	7,000	17,000	22,000
Transgender identity	102,000	32,000	35,000	20,000	4,000	D	S	D	D
Very satisfied	38,000	18,000	8,000	S	3,000	D	D	D	D
Somewhat satisfied	36,000	5,000	S	3,000	S	D	D	D	D
Somewhat dissatisfied	18,000	S	S	S	D	D	D	D	D
Very dissatisfied	S	D	D	S	D	D	D	D	D
S&E occupations	30,000	13,000	8,000	2,000	4,000	D	D	D	D
Very satisfied	17,000	S	S	S	S	D	D	D	D
Somewhat satisfied	10,000	3,000	3,000	S	S	D	D	D	D
Somewhat dissatisfied	S	D	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D
Biological, agricultural, and other life scientists	S	S	S	D	D	D	D	D	D
Very satisfied	S	D	D	D	D	D	D	D	D
Somewhat satisfied	1,000	D	D	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D
Computer and mathematical scientists	16,000	4,000	5,000	1,000	3,000	D	D	D	D
Very satisfied	6,000	D	S	D	D	D	D	D	D
Somewhat satisfied	7,000	2,000	3,000	D	D	D	D	D	D
Somewhat dissatisfied	1,000	D	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D

TABLE 3-4

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and years since highest degree: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Years since highest degree[b]							
		< 5	5–9	10–14	15–19	20–24	25–29	30–34	≥ 35
Physical and related scientists	1,000	D	D	D	D	D	D	D	D
Very satisfied	D	D	D	D	D	D	D	D	D
Somewhat satisfied	D	D	D	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D
Social and related scientists	S	S	D	D	D	D	D	D	D
Very satisfied	D	D	D	D	D	D	D	D	D
Somewhat satisfied	D	D	D	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D
Engineers	4,000	D	D	S	D	D	D	D	D
Very satisfied	1,000	D	D	*	D	D	D	D	D
Somewhat satisfied	2,000	D	D	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D
S&E-related occupations	15,000	S	5,000	S	D	D	D	D	D
Very satisfied	8,000	S	S	D	D	D	D	D	D
Somewhat satisfied	6,000	D	3,000	D	D	D	D	D	D
Somewhat dissatisfied	1,000	D	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D
Non-S&E occupations	57,000	S	22,000	S	D	D	D	D	D
Very satisfied	14,000	D	3,000	S	D	D	D	D	D
Somewhat satisfied	S	1,000	S	D	D	D	D	D	D
Somewhat dissatisfied	S	D	S	D	D	D	D	D	D
Very dissatisfied	S	D	D	D	D	D	D	D	D
Different term used for gender identity	256,000	113,000	79,000	30,000	6,000	S	D	D	S
Very satisfied	90,000	S	24,000	14,000	S	D	D	D	D
Somewhat satisfied	117,000	40,000	42,000	S	S	D	D	D	D
Somewhat dissatisfied	41,000	S	S	D	D	D	D	D	D
Very dissatisfied	7,000	S	D	S	D	D	D	D	D
S&E occupations	44,000	26,000	10,000	2,000	S	D	D	D	D
Very satisfied	20,000	10,000	6,000	1,000	D	D	D	D	D
Somewhat satisfied	21,000	15,000	3,000	S	D	D	D	D	D
Somewhat dissatisfied	3,000	D	2,000	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D

TABLE 3-4

Employed college graduates, by sex assigned at birth, gender identity, major occupation, job satisfaction, and years since highest degree: 2023

(Number)

Sex assigned at birth, gender identity,[a] occupation, and job satisfaction	Total	Years since highest degree[b]							
		< 5	5–9	10–14	15–19	20–24	25–29	30–34	≥ 35
Biological, agricultural, and other life scientists	6,000	S	S	D	D	D	D	D	D
Very satisfied	5,000	D	D	D	D	D	D	D	D
Somewhat satisfied	1,000	1,000	D	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D
Computer and mathematical scientists	19,000	7,000	6,000	1,000	D	D	D	D	D
Very satisfied	8,000	2,000	4,000	D	D	D	D	D	D
Somewhat satisfied	10,000	S	2,000	D	D	D	D	D	D
Somewhat dissatisfied	1,000	D	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D
Physical and related scientists	1,000	1,000	D	D	D	D	D	D	D
Very satisfied	D	D	D	D	D	D	D	D	D
Somewhat satisfied	1,000	1,000	D	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D
Social and related scientists	7,000	S	2,000	D	D	D	D	D	D
Very satisfied	1,000	D	S	D	D	D	D	D	D
Somewhat satisfied	S	S	D	D	D	D	D	D	D
Somewhat dissatisfied	S	D	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D
Engineers	10,000	S	D	D	D	D	D	D	D
Very satisfied	S	D	D	D	D	D	D	D	D
Somewhat satisfied	S	D	D	D	D	D	D	D	D
Somewhat dissatisfied	D	D	D	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D
S&E-related occupations	48,000	23,000	18,000	4,000	D	D	D	D	D
Very satisfied	S	D	2,000	D	D	D	D	D	D
Somewhat satisfied	31,000	16,000	S	S	D	D	D	D	D
Somewhat dissatisfied	S	D	S	D	D	D	D	D	D
Very dissatisfied	D	D	D	D	D	D	D	D	D
Non-S&E occupations	164,000	64,000	50,000	24,000	S	D	D	D	D
Very satisfied	65,000	S	17,000	13,000	D	D	D	D	D
Somewhat satisfied	65,000	8,000	30,000	S	D	D	D	D	D
Somewhat dissatisfied	28,000	S	S	D	D	D	D	D	D
Very dissatisfied	5,000	D	D	D	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.

[a] Gender identity estimates are tabulated based on "mark all that apply" responses to the following question, "How do you currently describe yourself? 1. Male, 2. Female, 3. Transgender, and 4. I use a different term." Thus, these four gender identity categories are not mutually exclusive.
[b] Years since highest degree is calculated as the difference between academic years of highest degree attainment and survey reference year and therefore is a whole number.

Note(s):
Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding and multiple response options for the gender identity question.

Source(s):
National Center for Science and Engineering Statistics, National Survey of College Graduates, 2023.

TABLE 4-1

Median annual salary of full-time employed college graduates, by major occupation, level of highest degree, age, and sex assigned at birth, gender identity: 2023

(Dollars)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
All occupations	85,000	75,000	100,000	75,000	100,000	70,000	50,000
29 and younger	61,000	58,000	70,000	58,000	70,000	73,000	46,000
30–39	85,000	75,000	98,000	75,000	99,000	73,000	50,000
40–49	99,000	84,000	112,000	84,000	112,000	67,000	S
50–75	98,000	81,000	118,000	81,000	117,000	S	85,000
S&E occupations	110,000	98,000	116,000	98,000	116,000	106,000	74,000
29 and younger	84,000	76,000	86,000	76,000	86,000	80,000	70,000
30–39	112,000	100,000	119,000	100,000	119,000	87,000	102,000
40–49	122,000	110,000	130,000	113,000	130,000	122,000	S
50–75	125,000	111,000	130,000	112,000	130,000	D	D
Biological, agricultural, and other life scientists	80,000	79,000	82,000	79,000	83,000	S	S
29 and younger	50,000	44,000	54,000	45,000	54,000	S	S
30–39	77,000	77,000	78,000	77,000	78,000	S	D
40–49	95,000	98,000	95,000	98,000	95,000	D	D
50–75	110,000	100,000	113,000	100,000	113,000	D	D
Computer and mathematical scientists	120,000	109,000	120,000	110,000	120,000	110,000	93,000
29 and younger	95,000	92,000	95,000	92,000	95,000	88,000	87,000
30–39	120,000	110,000	125,000	110,000	125,000	115,000	123,000
40–49	128,000	113,000	130,000	114,000	130,000	D	D
50–75	125,000	119,000	130,000	119,000	130,000	D	D
Physical and related scientists	83,000	77,000	88,000	78,000	88,000	D	82,000
29 and younger	52,000	59,000	45,000	58,000	45,000	D	D
30–39	82,000	82,000	82,000	81,000	82,000	D	D
40–49	105,000	106,000	105,000	106,000	105,000	D	D
50–75	120,000	97,000	128,000	97,000	128,000	D	D
Social and related scientists	86,000	84,000	90,000	84,000	90,000	D	S
29 and younger	55,000	54,000	56,000	54,000	56,000	D	D
30–39	90,000	90,000	92,000	90,000	92,000	D	D
40–49	90,000	107,000	86,000	107,000	86,000	D	D
50–75	103,000	89,000	113,000	89,000	113,000	D	D
Engineers	115,000	105,000	116,000	105,000	116,000	134,000	S
29 and younger	87,000	87,000	87,000	88,000	87,000	D	S
30–39	115,000	110,000	115,000	110,000	115,000	S	*
40–49	132,000	120,000	133,000	120,000	134,000	D	D
50–75	140,000	130,000	141,000	130,000	141,000	D	D

TABLE 4-1

Median annual salary of full-time employed college graduates, by major occupation, level of highest degree, age, and sex assigned at birth, gender identity: 2023

(Dollars)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
S&E-related occupations	90,000	84,000	106,000	84,000	107,000	73,000	47,000
29 and younger	65,000	64,000	65,000	64,000	65,000	70,000	47,000
30–39	89,000	85,000	98,000	85,000	98,000	141,000	S
40–49	108,000	96,000	135,000	96,000	135,000	D	S
50–75	104,000	92,000	125,000	92,000	125,000	D	D
Non-S&E occupations	77,000	69,000	90,000	69,000	90,000	52,000	45,000
29 and younger	55,000	55,000	58,000	55,000	58,000	S	45,000
30–39	76,000	69,000	88,000	69,000	88,000	53,000	50,000
40–49	87,000	77,000	100,000	77,000	100,000	S	S
50–75	89,000	75,000	102,000	75,000	102,000	S	S
Bachelor's	78,000	66,000	90,000	66,000	90,000	68,000	46,000
29 and younger	60,000	55,000	66,000	55,000	67,000	72,000	45,000
30–39	80,000	67,000	90,000	67,000	91,000	S	40,000
40–49	90,000	75,000	100,000	75,000	100,000	S	S
50–75	88,000	75,000	100,000	75,000	100,000	S	D
S&E occupations	102,000	91,000	106,000	91,000	106,000	99,000	69,000
29 and younger	84,000	78,000	85,000	78,000	85,000	82,000	59,000
30–39	105,000	95,000	110,000	95,000	110,000	87,000	108,000
40–49	120,000	105,000	120,000	104,000	120,000	D	D
50–75	120,000	105,000	123,000	105,000	123,000	D	D
Biological, agricultural, and other life scientists	62,000	60,000	63,000	60,000	63,000	D	S
29 and younger	53,000	48,000	55,000	48,000	55,000	D	S
30–39	63,000	64,000	61,000	64,000	61,000	D	D
40–49	85,000	92,000	76,000	91,000	76,000	D	D
50–75	80,000	80,000	87,000	80,000	87,000	D	D
Computer and mathematical scientists	110,000	100,000	112,000	100,000	112,000	109,000	88,000
29 and younger	91,000	85,000	94,000	85,000	94,000	90,000	72,000
30–39	113,000	100,000	118,000	100,000	118,000	86,000	110,000
40–49	120,000	105,000	123,000	105,000	122,000	S	D
50–75	117,000	105,000	119,000	105,000	119,000	D	D
Physical and related scientists	70,000	70,000	70,000	70,000	70,000	D	D
29 and younger	49,000	54,000	39,000	54,000	39,000	D	D
30–39	80,000	80,000	80,000	78,000	80,000	D	D
40–49	90,000	80,000	100,000	80,000	100,000	D	D
50–75	98,000	87,000	103,000	87,000	104,000	D	D

TABLE 4-1

Median annual salary of full-time employed college graduates, by major occupation, level of highest degree, age, and sex assigned at birth, gender identity: 2023

(Dollars)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
Social and related scientists	87,000	86,000	87,000	86,000	87,000	D	D
29 and younger	49,000	51,000	42,000	52,000	42,000	D	D
30–39	94,000	94,000	S	94,000	S	D	D
40–49	87,000	172,000	S	172,000	S	D	D
50–75	110,000	112,000	101,000	112,000	101,000	D	D
Engineers	104,000	99,000	105,000	99,000	105,000	S	S
29 and younger	85,000	85,000	84,000	85,000	84,000	D	D
30–39	106,000	110,000	105,000	110,000	105,000	S	D
40–49	119,000	106,000	120,000	106,000	120,000	D	D
50–75	130,000	130,000	130,000	130,000	130,000	D	D
S&E-related occupations	80,000	72,000	90,000	73,000	90,000	59,000	44,000
29 and younger	60,000	60,000	65,000	60,000	65,000	D	47,000
30–39	80,000	72,000	88,000	74,000	88,000	D	S
40–49	90,000	85,000	108,000	85,000	106,000	D	D
50–75	90,000	82,000	110,000	82,000	110,000	D	D
Non-S&E occupations	70,000	62,000	80,000	62,000	80,000	S	45,000
29 and younger	53,000	53,000	55,000	53,000	56,000	S	45,000
30–39	72,000	63,000	81,000	63,000	81,000	S	S
40–49	80,000	70,000	95,000	70,000	95,000	D	D
50–75	80,000	70,000	90,000	70,000	90,000	D	D
Master's	94,000	80,000	118,000	80,000	118,000	60,000	70,000
29 and younger	65,000	63,000	77,000	63,000	77,000	58,000	68,000
30–39	90,000	80,000	110,000	80,000	112,000	56,000	59,000
40–49	100,000	86,000	125,000	86,000	125,000	D	S
50–75	100,000	89,000	125,000	89,000	125,000	D	S
S&E occupations	122,000	105,000	130,000	105,000	130,000	86,000	75,000
29 and younger	87,000	75,000	95,000	74,000	95,000	79,000	75,000
30–39	125,000	110,000	134,000	110,000	134,000	S	68,000
40–49	132,000	117,000	140,000	117,000	140,000	D	D
50–75	134,000	116,000	141,000	116,000	141,000	D	D
Biological, agricultural, and other life scientists	71,000	70,000	71,000	70,000	71,000	D	S
29 and younger	36,000	S	39,000	S	39,000	D	D
30–39	74,000	72,000	78,000	72,000	79,000	D	D
40–49	77,000	78,000	77,000	78,000	77,000	D	D
50–75	95,000	100,000	82,000	100,000	82,000	D	D

TABLE 4-1

Median annual salary of full-time employed college graduates, by major occupation, level of highest degree, age, and sex assigned at birth, gender identity: 2023

(Dollars)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
Computer and mathematical scientists	134,000	120,000	140,000	120,000	140,000	124,000	88,000
29 and younger	110,000	112,000	109,000	113,000	110,000	D	S
30–39	139,000	120,000	150,000	120,000	150,000	D	D
40–49	135,000	119,000	140,000	119,000	140,000	D	D
50–75	139,000	127,000	144,000	127,000	144,000	D	D
Physical and related scientists	80,000	76,000	82,000	76,000	82,000	D	D
29 and younger	43,000	53,000	34,000	52,000	34,000	D	D
30–39	74,000	81,000	69,000	81,000	69,000	D	D
40–49	105,000	117,000	102,000	117,000	102,000	D	D
50–75	103,000	99,000	103,000	99,000	103,000	D	D
Social and related scientists	83,000	75,000	92,000	76,000	92,000	D	S
29 and younger	59,000	56,000	61,000	55,000	61,000	D	D
30–39	90,000	95,000	85,000	95,000	84,000	D	D
40–49	85,000	84,000	91,000	84,000	91,000	D	D
50–75	85,000	67,000	112,000	67,000	112,000	D	D
Engineers	130,000	116,000	134,000	116,000	134,000	S	S
29 and younger	100,000	90,000	100,000	91,000	100,000	D	D
30–39	125,000	110,000	127,000	110,000	127,000	D	D
40–49	145,000	146,000	145,000	146,000	145,000	D	D
50–75	150,000	125,000	149,000	125,000	149,000	D	D
S&E-related occupations	100,000	94,000	112,000	94,000	113,000	104,000	S
29 and younger	70,000	70,000	70,000	70,000	70,000	D	D
30–39	93,000	88,000	100,000	88,000	100,000	D	S
40–49	106,000	99,000	131,000	99,000	132,000	D	D
50–75	104,000	100,000	113,000	100,000	113,000	D	D
Non-S&E occupations	83,000	75,000	106,000	75,000	106,000	50,000	60,000
29 and younger	59,000	59,000	65,000	59,000	65,000	S	47,000
30–39	78,000	73,000	99,000	73,000	99,000	S	62,000
40–49	90,000	80,000	115,000	80,000	115,000	D	D
50–75	94,000	80,000	124,000	80,000	124,000	D	D
Doctorate	110,000	97,000	120,000	97,000	120,000	112,000	95,000
29 and younger	81,000	81,000	78,000	81,000	78,000	D	D
30–39	100,000	90,000	109,000	90,000	109,000	S	S
40–49	115,000	110,000	119,000	110,000	119,000	D	D
50–75	121,000	98,000	135,000	98,000	135,000	D	D

TABLE 4-1

Median annual salary of full-time employed college graduates, by major occupation, level of highest degree, age, and sex assigned at birth, gender identity: 2023

(Dollars)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
S&E occupations	120,000	102,000	127,000	102,000	127,000	111,000	95,000
29 and younger	93,000	79,000	110,000	79,000	110,000	S	S
30–39	106,000	95,000	117,000	95,000	117,000	D	95,000
40–49	119,000	115,000	126,000	116,000	125,000	D	D
50–75	132,000	111,000	144,000	111,000	143,000	D	D
Biological, agricultural, and other life scientists	105,000	97,000	110,000	97,000	110,000	D	D
29 and younger	61,000	58,000	68,000	57,000	68,000	D	D
30–39	94,000	93,000	95,000	93,000	95,000	D	D
40–49	114,000	108,000	116,000	108,000	116,000	D	D
50–75	130,000	116,000	135,000	116,000	135,000	D	D
Computer and mathematical scientists	145,000	133,000	150,000	135,000	150,000	S	D
29 and younger	136,000	114,000	150,000	117,000	150,000	D	D
30–39	159,000	150,000	160,000	154,000	160,000	D	D
40–49	130,000	125,000	143,000	125,000	143,000	D	D
50–75	148,000	134,000	150,000	135,000	149,000	D	D
Physical and related scientists	119,000	106,000	124,000	106,000	124,000	D	S
29 and younger	75,000	84,000	72,000	84,000	72,000	D	D
30–39	105,000	104,000	101,000	104,000	101,000	D	D
40–49	117,000	122,000	113,000	123,000	113,000	D	D
50–75	135,000	111,000	141,000	111,000	142,000	D	D
Social and related scientists	90,000	87,000	96,000	87,000	96,000	D	D
29 and younger	80,000	76,000	96,000	76,000	96,000	D	D
30–39	81,000	73,000	99,000	73,000	99,000	D	D
40–49	99,000	108,000	84,000	108,000	84,000	D	D
50–75	101,000	98,000	111,000	98,000	111,000	D	D
Engineers	132,000	120,000	137,000	121,000	138,000	D	D
29 and younger	123,000	102,000	124,000	102,000	124,000	D	D
30–39	117,000	108,000	117,000	108,000	117,000	D	D
40–49	145,000	118,000	149,000	128,000	149,000	D	D
50–75	152,000	131,000	155,000	125,000	155,000	D	D
S&E-related occupations	110,000	105,000	120,000	104,000	120,000	D	S
29 and younger	78,000	81,000	69,000	81,000	69,000	D	D
30–39	100,000	100,000	97,000	98,000	97,000	D	D
40–49	144,000	147,000	136,000	146,000	136,000	D	D
50–75	134,000	120,000	148,000	120,000	148,000	D	D

TABLE 4-1

Median annual salary of full-time employed college graduates, by major occupation, level of highest degree, age, and sex assigned at birth, gender identity: 2023

(Dollars)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
Non-S&E occupations	95,000	84,000	106,000	84,000	106,000	D	D
29 and younger	85,000	82,000	112,000	S	112,000	D	D
30–39	82,000	68,000	101,000	67,000	101,000	D	D
40–49	97,000	94,000	99,000	94,000	99,000	D	D
50–75	100,000	89,000	124,000	89,000	124,000	D	D
Professional	150,000	128,000	178,000	128,000	178,000	D	D
29 and younger	75,000	75,000	84,000	74,000	85,000	D	D
30–39	136,000	134,000	139,000	134,000	139,000	D	D
40–49	179,000	149,000	199,000	149,000	200,000	D	D
50–75	180,000	149,000	199,000	149,000	199,000	D	D
S&E occupations	129,000	124,000	130,000	124,000	130,000	D	D
29 and younger	D	D	D	D	D	D	D
30–39	99,000	S	129,000	S	129,000	D	D
40–49	142,000	129,000	192,000	136,000	193,000	D	D
50–75	144,000	139,000	161,000	139,000	161,000	D	D
Biological, agricultural, and other life scientists	196,000	219,000	184,000	219,000	184,000	D	D
29 and younger	D	D	D	D	D	D	D
30–39	D	D	D	D	D	D	D
40–49	S	S	S	S	S	D	D
50–75	222,000	S	170,000	S	170,000	D	D
Computer and mathematical scientists	129,000	S	119,000	S	119,000	D	D
29 and younger	D	D	D	D	D	D	D
30–39	D	D	D	D	D	D	D
40–49	D	D	D	D	D	D	D
50–75	120,000	S	D	S	D	D	D
Physical and related scientists	D	D	D	D	D	D	D
29 and younger	D	D	D	D	D	D	D
30–39	D	D	D	D	D	D	D
40–49	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D
Social and related scientists	100,000	99,000	120,000	99,000	120,000	D	D
29 and younger	D	D	D	D	D	D	D
30–39	S	S	D	S	D	D	D
40–49	106,000	D	S	S	D	D	D
50–75	139,000	S	S	S	S	D	D

TABLE 4-1

Median annual salary of full-time employed college graduates, by major occupation, level of highest degree, age, and sex assigned at birth, gender identity: 2023

(Dollars)

Occupation, level of highest degree, and age	Total	Sex assigned at birth		Gender identity[a]			
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity
Engineers	D	D	D	D	D	D	D
29 and younger	D	D	D	D	D	D	D
30–39	D	D	D	D	D	D	D
40–49	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D
S&E-related occupations	160,000	132,000	193,000	131,000	194,000	D	D
29 and younger	72,000	74,000	70,000	74,000	67,000	D	D
30–39	139,000	140,000	129,000	140,000	129,000	D	D
40–49	220,000	175,000	274,000	171,000	274,000	D	D
50–75	221,000	155,000	250,000	155,000	250,000	D	D
Non-S&E occupations	144,000	125,000	162,000	125,000	163,000	D	D
29 and younger	97,000	83,000	119,000	83,000	119,000	D	D
30–39	137,000	130,000	150,000	131,000	150,000	D	D
40–49	138,000	137,000	138,000	137,000	138,000	D	D
50–75	172,000	125,000	180,000	125,000	180,000	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.

[a] Gender identity estimates are tabulated based on "mark all that apply" responses to the following question, "How do you currently describe yourself? 1. Male, 2. Female, 3. Transgender, and 4. I use a different term." Thus, these four gender identity categories are not mutually exclusive.

Note(s):
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.

Source(s):
National Center for Science and Engineering Statistics, National Survey of College Graduates, 2023.

TABLE 4-2

Median annual salary of full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Dollars)

Sex assigned at birth, gender identity,[a] 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				
All sexes and gender identities	85,000	75,000	64,000	108,000	72,000	80,000	87,000	82,000	88,000	75,000	85,000	106,000
29 and younger	61,000	59,000	62,000	77,000	57,000	S	62,000	52,000	62,000	56,000	60,000	75,000
30–39	85,000	75,000	67,000	108,000	70,000	77,000	85,000	84,000	87,000	72,000	84,000	114,000
40–49	99,000	87,000	97,000	129,000	81,000	99,000	98,000	106,000	100,000	83,000	98,000	118,000
50–75	98,000	90,000	59,000	110,000	77,000	80,000	100,000	100,000	100,000	80,000	98,000	84,000
S&E occupations	110,000	96,000	85,000	127,000	96,000	86,000	110,000	106,000	113,000	95,000	109,000	130,000
29 and younger	84,000	74,000	D	100,000	78,000	D	84,000	82,000	85,000	69,000	83,000	110,000
30–39	112,000	100,000	86,000	125,000	94,000	S	110,000	120,000	115,000	94,000	108,000	130,000
40–49	122,000	118,000	D	140,000	104,000	D	120,000	115,000	125,000	108,000	120,000	135,000
50–75	125,000	112,000	122,000	144,000	116,000	D	125,000	110,000	129,000	110,000	125,000	130,000
Biological, agricultural, and other life scientists	80,000	71,000	*	101,000	70,000	D	77,000	83,000	83,000	55,000	80,000	85,000
29 and younger	50,000	55,000	D	48,000	38,000	D	51,000	38,000	54,000	S	51,000	41,000
30–39	77,000	70,000	D	102,000	68,000	D	70,000	83,000	81,000	55,000	73,000	93,000
40–49	95,000	99,000	D	119,000	150,000	D	87,000	136,000	96,000	87,000	94,000	109,000
50–75	110,000	71,000	D	125,000	138,000	D	104,000	S	110,000	88,000	110,000	84,000
Computer and mathematical scientists	120,000	100,000	70,000	135,000	100,000	D	117,000	110,000	120,000	104,000	115,000	140,000
29 and younger	95,000	80,000	D	114,000	82,000	D	93,000	85,000	96,000	80,000	92,000	130,000
30–39	120,000	110,000	D	135,000	98,000	D	120,000	131,000	121,000	109,000	116,000	144,000
40–49	128,000	111,000	D	144,000	105,000	D	122,000	132,000	129,000	117,000	124,000	140,000
50–75	125,000	110,000	S	149,000	119,000	D	125,000	109,000	129,000	105,000	125,000	135,000
Physical and related scientists	83,000	73,000	D	75,000	80,000	D	90,000	66,000	85,000	72,000	84,000	61,000
29 and younger	52,000	43,000	D	47,000	S	D	55,000	S	54,000	32,000	54,000	31,000
30–39	82,000	76,000	D	68,000	81,000	D	89,000	87,000	82,000	77,000	82,000	73,000
40–49	105,000	74,000	D	98,000	109,000	D	110,000	91,000	109,000	79,000	108,000	86,000
50–75	120,000	94,000	D	109,000	S	D	125,000	D	121,000	99,000	120,000	94,000
Social and related scientists	86,000	86,000	S	87,000	72,000	D	89,000	78,000	88,000	74,000	86,000	82,000
29 and younger	55,000	42,000	D	72,000	53,000	D	58,000	S	60,000	40,000	55,000	54,000
30–39	90,000	98,000	D	91,000	81,000	D	89,000	81,000	90,000	86,000	92,000	74,000
40–49	90,000	S	D	115,000	47,000	D	88,000	S	90,000	94,000	88,000	S
50–75	103,000	86,000	D	87,000	75,000	D	111,000	109,000	109,000	86,000	107,000	82,000
Engineers	115,000	103,000	122,000	125,000	102,000	S	114,000	111,000	115,000	100,000	113,000	120,000
29 and younger	87,000	78,000	D	100,000	82,000	D	87,000	85,000	87,000	79,000	85,000	107,000
30–39	115,000	109,000	S	125,000	104,000	D	112,000	121,000	116,000	98,000	114,000	120,000
40–49	132,000	130,000	D	140,000	107,000	D	134,000	105,000	135,000	103,000	132,000	139,000
50–75	140,000	128,000	D	149,000	125,000	D	140,000	142,000	142,000	125,000	140,000	147,000

TABLE 4-2

Median annual salary of full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Dollars)

Sex assigned at birth, gender identity,[a] 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				
S&E-related occupations	90,000	84,000	64,000	110,000	80,000	129,000	90,000	92,000	92,000	82,000	90,000	100,000
29 and younger	65,000	64,000	D	72,000	60,000	D	64,000	65,000	65,000	60,000	65,000	63,000
30–39	89,000	84,000	62,000	109,000	79,000	D	88,000	92,000	89,000	89,000	88,000	118,000
40–49	108,000	100,000	98,000	147,000	88,000	D	104,000	112,000	110,000	84,000	106,000	122,000
50–75	104,000	100,000	S	125,000	85,000	S	103,000	123,000	110,000	85,000	104,000	94,000
Non-S&E occupations	77,000	67,000	62,000	91,000	65,000	78,000	80,000	71,000	80,000	68,000	78,000	75,000
29 and younger	55,000	52,000	56,000	69,000	52,000	D	56,000	42,000	55,000	50,000	55,000	63,000
30–39	76,000	65,000	66,000	93,000	60,000	74,000	78,000	71,000	78,000	62,000	76,000	75,000
40–49	87,000	80,000	96,000	110,000	77,000	S	87,000	99,000	90,000	74,000	86,000	91,000
50–75	89,000	81,000	56,000	75,000	72,000	S	92,000	91,000	90,000	74,000	89,000	70,000
Female at birth	75,000	65,000	62,000	95,000	67,000	80,000	75,000	72,000	76,000	65,000	75,000	89,000
29 and younger	58,000	56,000	57,000	75,000	59,000	S	56,000	47,000	59,000	56,000	57,000	75,000
30–39	75,000	68,000	70,000	100,000	62,000	S	75,000	71,000	77,000	60,000	75,000	95,000
40–49	84,000	74,000	89,000	110,000	80,000	D	82,000	94,000	85,000	72,000	83,000	99,000
50–75	81,000	70,000	60,000	89,000	73,000	S	84,000	95,000	85,000	70,000	81,000	59,000
S&E occupations	98,000	88,000	86,000	115,000	90,000	S	94,000	105,000	100,000	83,000	95,000	115,000
29 and younger	76,000	69,000	D	98,000	75,000	D	72,000	85,000	80,000	54,000	75,000	121,000
30–39	100,000	87,000	D	115,000	89,000	D	98,000	113,000	101,000	89,000	97,000	115,000
40–49	110,000	120,000	S	119,000	105,000	D	100,000	115,000	113,000	99,000	110,000	119,000
50–75	111,000	100,000	S	128,000	100,000	D	110,000	114,000	116,000	99,000	114,000	80,000
Biological, agricultural, and other life scientists	79,000	65,000	D	97,000	69,000	D	74,000	82,000	82,000	51,000	79,000	80,000
29 and younger	44,000	49,000	D	50,000	38,000	D	39,000	33,000	51,000	S	44,000	46,000
30–39	77,000	65,000	D	97,000	68,000	D	71,000	82,000	82,000	55,000	79,000	70,000
40–49	98,000	106,000	D	119,000	160,000	D	83,000	114,000	99,000	83,000	93,000	110,000
50–75	100,000	77,000	D	121,000	130,000	D	99,000	S	105,000	69,000	100,000	79,000
Computer and mathematical scientists	109,000	91,000	D	120,000	97,000	D	103,000	110,000	110,000	94,000	105,000	125,000
29 and younger	92,000	80,000	D	114,000	92,000	D	83,000	96,000	94,000	75,000	84,000	140,000
30–39	110,000	80,000	D	121,000	94,000	D	108,000	110,000	110,000	95,000	104,000	125,000
40–49	113,000	114,000	D	119,000	109,000	D	104,000	127,000	114,000	108,000	113,000	112,000
50–75	119,000	98,000	D	136,000	104,000	D	111,000	S	122,000	99,000	120,000	S
Physical and related scientists	77,000	73,000	D	75,000	78,000	D	80,000	79,000	76,000	79,000	78,000	68,000
29 and younger	59,000	42,000	D	S	S	D	57,000	D	59,000	54,000	60,000	30,000
30–39	82,000	73,000	D	75,000	73,000	D	90,000	83,000	85,000	75,000	82,000	73,000
40–49	106,000	83,000	D	93,000	113,000	D	105,000	D	109,000	95,000	109,000	80,000
50–75	97,000	68,000	D	104,000	S	D	98,000	D	98,000	77,000	97,000	102,000

TABLE 4-2

Median annual salary of full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Dollars)

Sex assigned at birth, gender identity,[a] 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				
Social and related scientists	84,000	98,000	S	79,000	65,000	D	84,000	98,000	84,000	73,000	84,000	81,000
29 and younger	54,000	45,000	D	72,000	52,000	D	55,000	94,000	59,000	39,000	55,000	48,000
30–39	90,000	99,000	D	75,000	72,000	D	91,000	88,000	90,000	93,000	93,000	62,000
40–49	107,000	120,000	D	105,000	47,000	D	98,000	D	107,000	92,000	99,000	S
50–75	89,000	97,000	D	87,000	71,000	D	96,000	S	90,000	86,000	89,000	S
Engineers	105,000	97,000	D	116,000	95,000	D	102,000	120,000	105,000	98,000	103,000	118,000
29 and younger	87,000	83,000	D	98,000	82,000	D	89,000	85,000	88,000	75,000	85,000	134,000
30–39	110,000	96,000	D	118,000	94,000	D	110,000	157,000	110,000	91,000	110,000	114,000
40–49	120,000	130,000	D	134,000	136,000	D	106,000	D	127,000	90,000	122,000	114,000
50–75	130,000	124,000	D	126,000	118,000	D	130,000	D	134,000	116,000	130,000	S
S&E-related occupations	84,000	75,000	68,000	100,000	80,000	D	84,000	72,000	85,000	70,000	85,000	78,000
29 and younger	64,000	59,000	D	71,000	60,000	D	64,000	61,000	64,000	59,000	64,000	63,000
30–39	85,000	83,000	66,000	104,000	79,000	D	85,000	71,000	86,000	70,000	85,000	80,000
40–49	96,000	93,000	S	112,000	88,000	D	95,000	86,000	100,000	78,000	96,000	103,000
50–75	92,000	79,000	S	103,000	85,000	D	92,000	108,000	95,000	75,000	92,000	46,000
Non-S&E occupations	69,000	62,000	60,000	85,000	63,000	77,000	70,000	70,000	70,000	61,000	69,000	74,000
29 and younger	55,000	53,000	S	71,000	51,000	D	55,000	S	55,000	56,000	55,000	65,000
30–39	69,000	62,000	64,000	93,000	57,000	S	69,000	69,000	70,000	57,000	68,000	74,000
40–49	77,000	69,000	88,000	100,000	75,000	S	75,000	99,000	79,000	67,000	76,000	91,000
50–75	75,000	65,000	57,000	69,000	66,000	S	80,000	92,000	79,000	65,000	75,000	59,000
Male at birth	100,000	85,000	69,000	120,000	79,000	81,000	100,000	89,000	100,000	86,000	100,000	120,000
29 and younger	70,000	60,000	S	85,000	55,000	S	70,000	60,000	70,000	60,000	70,000	77,000
30–39	98,000	82,000	62,000	114,000	84,000	108,000	100,000	100,000	100,000	84,000	95,000	125,000
40–49	112,000	92,000	97,000	148,000	83,000	S	113,000	120,000	115,000	93,000	110,000	128,000
50–75	118,000	104,000	59,000	135,000	92,000	98,000	120,000	112,000	120,000	96,000	118,000	114,000
S&E occupations	116,000	100,000	S	135,000	101,000	94,000	115,000	107,000	119,000	100,000	114,000	135,000
29 and younger	86,000	75,000	D	100,000	80,000	D	87,000	73,000	88,000	75,000	85,000	100,000
30–39	119,000	110,000	S	130,000	101,000	S	116,000	127,000	120,000	98,000	115,000	139,000
40–49	130,000	113,000	D	148,000	103,000	D	125,000	115,000	130,000	109,000	125,000	141,000
50–75	130,000	114,000	136,000	149,000	119,000	D	130,000	110,000	131,000	115,000	130,000	140,000
Biological, agricultural, and other life scientists	82,000	73,000	*	110,000	68,000	D	79,000	87,000	85,000	62,000	80,000	92,000
29 and younger	54,000	60,000	D	39,000	34,000	D	55,000	S	56,000	54,000	55,000	S
30–39	78,000	83,000	D	110,000	66,000	D	65,000	81,000	80,000	S	70,000	103,000
40–49	95,000	90,000	D	108,000	D	D	91,000	S	95,000	87,000	94,000	98,000
50–75	113,000	S	D	135,000	129,000	D	110,000	D	111,000	116,000	113,000	90,000

TABLE 4-2

Median annual salary of full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Dollars)

Sex assigned at birth, gender identity,[a] 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				
Computer and mathematical scientists	120,000	107,000	S	140,000	105,000	D	120,000	109,000	122,000	110,000	120,000	144,000
29 and younger	95,000	80,000	D	113,000	81,000	D	96,000	82,000	96,000	86,000	95,000	124,000
30–39	125,000	113,000	D	139,000	115,000	D	125,000	138,000	126,000	110,000	120,000	150,000
40–49	130,000	105,000	D	149,000	103,000	D	126,000	132,000	130,000	121,000	129,000	144,000
50–75	130,000	110,000	D	149,000	119,000	D	128,000	107,000	130,000	113,000	129,000	141,000
Physical and related scientists	88,000	72,000	D	74,000	79,000	D	97,000	S	90,000	65,000	90,000	60,000
29 and younger	45,000	40,000	D	46,000	D	D	54,000	S	53,000	29,000	52,000	32,000
30–39	82,000	S	D	68,000	81,000	D	84,000	D	82,000	77,000	82,000	70,000
40–49	105,000	70,000	D	99,000	S	D	111,000	*	109,000	S	105,000	105,000
50–75	128,000	94,000	D	109,000	69,000	D	130,000	S	130,000	100,000	128,000	93,000
Social and related scientists	90,000	78,000	D	120,000	82,000	D	92,000	76,000	92,000	74,000	90,000	88,000
29 and younger	56,000	42,000	D	60,000	D	D	66,000	D	60,000	35,000	55,000	60,000
30–39	92,000	79,000	D	149,000	S	D	86,000	D	96,000	71,000	92,000	99,000
40–49	86,000	95,000	D	118,000	S	D	87,000	S	86,000	93,000	86,000	117,000
50–75	113,000	85,000	D	129,000	89,000	D	113,000	S	113,000	75,000	113,000	80,000
Engineers	116,000	105,000	S	129,000	106,000	S	115,000	105,000	118,000	101,000	115,000	123,000
29 and younger	87,000	77,000	D	100,000	81,000	D	87,000	84,000	87,000	79,000	85,000	100,000
30–39	115,000	110,000	*	125,000	105,000	D	113,000	119,000	116,000	98,000	115,000	125,000
40–49	133,000	125,000	D	141,000	102,000	D	137,000	99,000	135,000	108,000	132,000	140,000
50–75	141,000	128,000	D	149,000	125,000	D	141,000	142,000	144,000	131,000	140,000	147,000
S&E-related occupations	106,000	99,000	S	132,000	80,000	89,000	105,000	119,000	110,000	98,000	105,000	125,000
29 and younger	65,000	65,000	D	72,000	59,000	D	64,000	71,000	65,000	76,000	65,000	61,000
30–39	98,000	84,000	S	112,000	80,000	D	100,000	119,000	95,000	114,000	94,000	129,000
40–49	135,000	130,000	S	169,000	75,000	D	128,000	130,000	139,000	100,000	134,000	136,000
50–75	125,000	115,000	S	150,000	98,000	D	125,000	152,000	131,000	98,000	125,000	114,000
Non-S&E occupations	90,000	80,000	S	98,000	71,000	72,000	95,000	73,000	92,000	80,000	90,000	79,000
29 and younger	58,000	51,000	D	56,000	53,000	D	59,000	52,000	59,000	45,000	58,000	54,000
30–39	88,000	72,000	D	94,000	75,000	D	91,000	72,000	90,000	78,000	89,000	76,000
40–49	100,000	86,000	S	118,000	82,000	D	102,000	118,000	100,000	87,000	100,000	102,000
50–75	102,000	100,000	56,000	84,000	79,000	S	110,000	89,000	110,000	89,000	104,000	78,000
Female gender identity	75,000	65,000	62,000	95,000	67,000	80,000	75,000	72,000	76,000	65,000	75,000	89,000
29 and younger	58,000	57,000	57,000	75,000	59,000	S	56,000	47,000	59,000	56,000	58,000	74,000
30–39	75,000	68,000	70,000	100,000	62,000	S	75,000	71,000	78,000	60,000	75,000	95,000
40–49	84,000	74,000	89,000	110,000	80,000	D	82,000	94,000	85,000	72,000	84,000	99,000
50–75	81,000	70,000	60,000	89,000	73,000	S	84,000	95,000	85,000	70,000	81,000	59,000

TABLE 4-2

Median annual salary of full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Dollars)

Sex assigned at birth, gender identity,[a] 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				
S&E occupations	98,000	87,000	87,000	115,000	92,000	S	94,000	105,000	100,000	84,000	95,000	116,000
29 and younger	76,000	69,000	D	98,000	78,000	D	72,000	85,000	80,000	57,000	75,000	124,000
30–39	100,000	85,000	S	115,000	89,000	D	98,000	113,000	101,000	89,000	97,000	115,000
40–49	113,000	120,000	S	119,000	105,000	D	100,000	115,000	114,000	99,000	110,000	119,000
50–75	112,000	100,000	S	128,000	100,000	D	110,000	116,000	116,000	99,000	114,000	80,000
Biological, agricultural, and other life scientists	79,000	65,000	D	97,000	72,000	D	74,000	80,000	82,000	52,000	79,000	80,000
29 and younger	45,000	49,000	D	50,000	56,000	D	39,000	33,000	51,000	S	45,000	46,000
30–39	77,000	65,000	D	97,000	68,000	D	71,000	82,000	82,000	55,000	79,000	70,000
40–49	98,000	106,000	D	119,000	160,000	D	83,000	114,000	98,000	83,000	93,000	110,000
50–75	100,000	77,000	D	121,000	130,000	D	99,000	S	105,000	69,000	100,000	79,000
Computer and mathematical scientists	110,000	89,000	D	121,000	97,000	D	103,000	111,000	110,000	94,000	105,000	125,000
29 and younger	92,000	81,000	D	114,000	92,000	D	83,000	96,000	95,000	75,000	84,000	140,000
30–39	110,000	78,000	D	121,000	94,000	D	108,000	110,000	110,000	95,000	104,000	125,000
40–49	114,000	120,000	D	119,000	109,000	D	102,000	127,000	115,000	101,000	114,000	112,000
50–75	119,000	98,000	D	136,000	104,000	D	111,000	S	123,000	99,000	120,000	S
Physical and related scientists	78,000	73,000	D	75,000	78,000	D	80,000	83,000	76,000	79,000	79,000	68,000
29 and younger	58,000	42,000	D	S	S	D	57,000	*	59,000	55,000	60,000	30,000
30–39	81,000	73,000	D	75,000	73,000	D	90,000	83,000	85,000	75,000	83,000	73,000
40–49	106,000	83,000	D	93,000	113,000	D	105,000	D	109,000	89,000	109,000	80,000
50–75	97,000	68,000	D	104,000	S	D	98,000	D	98,000	77,000	97,000	102,000
Social and related scientists	84,000	98,000	S	79,000	65,000	D	84,000	98,000	84,000	70,000	84,000	81,000
29 and younger	54,000	43,000	D	72,000	52,000	D	55,000	D	60,000	39,000	55,000	48,000
30–39	90,000	99,000	D	75,000	72,000	D	92,000	88,000	90,000	93,000	93,000	62,000
40–49	107,000	120,000	D	105,000	47,000	D	98,000	D	107,000	92,000	99,000	S
50–75	89,000	97,000	D	87,000	71,000	D	96,000	S	90,000	86,000	89,000	S
Engineers	105,000	97,000	D	116,000	95,000	D	104,000	121,000	105,000	99,000	104,000	119,000
29 and younger	88,000	84,000	D	99,000	82,000	D	90,000	85,000	88,000	86,000	85,000	134,000
30–39	110,000	96,000	D	118,000	94,000	D	110,000	139,000	111,000	91,000	110,000	112,000
40–49	120,000	130,000	D	134,000	136,000	D	108,000	D	128,000	91,000	122,000	117,000
50–75	130,000	124,000	D	126,000	118,000	D	130,000	D	134,000	116,000	130,000	S
S&E-related occupations	84,000	75,000	68,000	100,000	80,000	D	84,000	72,000	85,000	70,000	85,000	78,000
29 and younger	64,000	59,000	D	73,000	60,000	D	64,000	61,000	65,000	59,000	64,000	63,000
30–39	85,000	83,000	66,000	104,000	79,000	D	85,000	69,000	86,000	71,000	86,000	80,000
40–49	96,000	93,000	S	112,000	88,000	D	95,000	86,000	100,000	78,000	96,000	103,000
50–75	92,000	79,000	S	103,000	85,000	D	92,000	108,000	95,000	74,000	93,000	46,000

TABLE 4-2

Median annual salary of full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Dollars)

Sex assigned at birth, gender identity,[a] 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	69,000	62,000	60,000	86,000	63,000	77,000	70,000	70,000	70,000	61,000	69,000	74,000
29 and younger	55,000	53,000	S	69,000	51,000	D	55,000	S	54,000	56,000	55,000	63,000
30–39	69,000	62,000	64,000	93,000	57,000	S	69,000	69,000	70,000	57,000	69,000	74,000
40–49	77,000	69,000	88,000	100,000	75,000	S	75,000	99,000	79,000	67,000	76,000	91,000
50–75	75,000	65,000	57,000	69,000	66,000	S	80,000	92,000	79,000	65,000	75,000	59,000
Male gender identity	100,000	86,000	69,000	120,000	79,000	80,000	100,000	89,000	100,000	87,000	100,000	120,000
29 and younger	70,000	60,000	S	85,000	55,000	S	70,000	60,000	70,000	64,000	70,000	77,000
30–39	99,000	81,000	62,000	114,000	84,000	108,000	100,000	100,000	100,000	84,000	95,000	125,000
40–49	112,000	92,000	97,000	148,000	83,000	S	113,000	120,000	115,000	94,000	110,000	128,000
50–75	117,000	104,000	59,000	135,000	90,000	98,000	120,000	114,000	120,000	95,000	118,000	114,000
S&E occupations	116,000	100,000	S	135,000	101,000	93,000	115,000	107,000	118,000	100,000	114,000	135,000
29 and younger	86,000	75,000	D	100,000	80,000	D	87,000	75,000	88,000	75,000	85,000	100,000
30–39	119,000	110,000	S	130,000	101,000	S	116,000	128,000	120,000	99,000	115,000	139,000
40–49	130,000	113,000	D	148,000	103,000	D	125,000	115,000	130,000	110,000	125,000	143,000
50–75	130,000	114,000	136,000	149,000	119,000	D	130,000	110,000	131,000	115,000	130,000	140,000
Biological, agricultural, and other life scientists	83,000	73,000	*	110,000	68,000	D	79,000	87,000	85,000	62,000	81,000	92,000
29 and younger	54,000	59,000	D	39,000	34,000	D	55,000	S	56,000	54,000	55,000	S
30–39	78,000	83,000	D	110,000	67,000	D	69,000	81,000	80,000	S	70,000	103,000
40–49	95,000	90,000	D	108,000	D	D	91,000	S	95,000	87,000	94,000	98,000
50–75	113,000	S	D	135,000	129,000	D	110,000	D	111,000	116,000	113,000	90,000
Computer and mathematical scientists	120,000	107,000	S	140,000	105,000	D	120,000	109,000	122,000	110,000	120,000	144,000
29 and younger	95,000	80,000	D	113,000	81,000	D	95,000	82,000	96,000	87,000	95,000	124,000
30–39	125,000	113,000	D	139,000	115,000	D	125,000	139,000	126,000	113,000	120,000	150,000
40–49	130,000	105,000	D	149,000	103,000	D	125,000	132,000	130,000	120,000	128,000	144,000
50–75	130,000	110,000	D	149,000	119,000	D	128,000	107,000	130,000	113,000	128,000	141,000
Physical and related scientists	88,000	73,000	D	74,000	79,000	D	97,000	S	90,000	65,000	90,000	60,000
29 and younger	45,000	40,000	D	46,000	D	D	54,000	S	53,000	29,000	52,000	32,000
30–39	82,000	S	D	68,000	81,000	D	84,000	D	82,000	77,000	82,000	70,000
40–49	105,000	70,000	D	99,000	S	D	112,000	*	109,000	S	105,000	105,000
50–75	128,000	95,000	D	109,000	69,000	D	130,000	S	130,000	100,000	128,000	93,000
Social and related scientists	90,000	78,000	D	120,000	82,000	D	92,000	76,000	92,000	71,000	90,000	87,000
29 and younger	56,000	42,000	D	60,000	D	D	66,000	D	60,000	35,000	55,000	60,000
30–39	92,000	79,000	D	149,000	S	D	89,000	D	96,000	62,000	92,000	99,000
40–49	86,000	100,000	D	118,000	S	D	87,000	S	86,000	S	86,000	117,000
50–75	113,000	85,000	D	129,000	89,000	D	113,000	S	113,000	75,000	113,000	80,000

TABLE 4-2

Median annual salary of full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Dollars)

Sex assigned at birth, gender identity,[a] 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				
Engineers	116,000	105,000	S	129,000	106,000	S	115,000	105,000	118,000	101,000	115,000	123,000
29 and younger	87,000	77,000	D	100,000	81,000	D	87,000	85,000	87,000	79,000	85,000	100,000
30–39	115,000	110,000	*	125,000	105,000	D	113,000	116,000	116,000	98,000	115,000	125,000
40–49	134,000	125,000	D	141,000	102,000	D	137,000	99,000	135,000	108,000	132,000	142,000
50–75	141,000	128,000	D	149,000	125,000	D	141,000	142,000	144,000	131,000	140,000	147,000
S&E-related occupations	107,000	99,000	S	133,000	80,000	89,000	105,000	119,000	110,000	99,000	105,000	125,000
29 and younger	65,000	65,000	D	70,000	59,000	D	65,000	71,000	65,000	80,000	65,000	61,000
30–39	98,000	84,000	S	112,000	80,000	D	100,000	119,000	95,000	114,000	94,000	129,000
40–49	135,000	130,000	S	169,000	75,000	D	128,000	130,000	139,000	100,000	134,000	136,000
50–75	125,000	115,000	S	150,000	98,000	D	125,000	152,000	131,000	98,000	125,000	114,000
Non-S&E occupations	90,000	80,000	S	98,000	70,000	72,000	96,000	74,000	92,000	80,000	90,000	79,000
29 and younger	58,000	51,000	D	56,000	53,000	D	60,000	52,000	59,000	34,000	58,000	54,000
30–39	88,000	70,000	D	94,000	75,000	D	91,000	72,000	90,000	78,000	89,000	76,000
40–49	100,000	87,000	S	118,000	82,000	D	102,000	118,000	100,000	88,000	100,000	102,000
50–75	102,000	100,000	56,000	84,000	77,000	S	110,000	89,000	110,000	88,000	104,000	78,000
Transgender identity	70,000	S	D	S	63,000	D	69,000	S	76,000	49,000	70,000	D
29 and younger	73,000	S	D	S	D	D	60,000	D	73,000	51,000	73,000	D
30–39	73,000	S	D	80,000	S	D	S	D	87,000	S	73,000	D
40–49	67,000	D	D	D	D	D	S	D	S	S	67,000	D
50–75	S	D	D	D	D	D	S	D	S	D	S	D
S&E occupations	106,000	80,000	D	D	D	D	109,000	D	119,000	86,000	104,000	D
29 and younger	80,000	S	D	D	D	D	73,000	D	78,000	80,000	77,000	D
30–39	87,000	D	D	D	D	D	S	D	124,000	S	87,000	D
40–49	122,000	D	D	D	D	D	D	D	S	S	122,000	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Biological, agricultural, and other life scientists	S	D	D	D	D	D	S	D	D	D	S	D
29 and younger	S	D	D	D	D	D	D	D	D	D	S	D
30–39	S	D	D	D	D	D	D	D	D	D	S	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Computer and mathematical scientists	110,000	S	D	S	D	D	111,000	S	119,000	98,000	110,000	D
29 and younger	88,000	D	D	D	D	D	77,000	D	90,000	D	83,000	D
30–39	115,000	D	D	D	D	D	S	D	S	S	114,000	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D

TABLE 4-2

Median annual salary of full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Dollars)

Sex assigned at birth, gender identity,[a] 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				
Physical and related scientists	D	D	D	D	D	D	*	D	D	D	D	D
29 and younger	D	D	D	D	D	D	D	D	D	D	D	D
30–39	D	D	D	D	D	D	D	D	D	D	D	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Social and related scientists	D	D	D	D	D	D	D	D	D	D	D	D
29 and younger	D	D	D	D	D	D	D	D	D	D	D	D
30–39	D	D	D	D	D	D	D	D	D	D	D	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Engineers	134,000	D	D	D	D	D	S	D	135,000	D	134,000	D
29 and younger	D	D	D	D	D	D	D	D	D	D	D	D
30–39	S	D	D	D	D	D	S	D	S	D	S	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
S&E-related occupations	73,000	D	D	S	D	D	125,000	D	73,000	S	73,000	D
29 and younger	70,000	D	D	D	D	D	57,000	D	S	D	S	D
30–39	141,000	D	D	S	D	D	S	D	S	D	141,000	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Non-S&E occupations	52,000	S	D	S	S	D	58,000	S	69,000	48,000	52,000	D
29 and younger	S	D	D	D	D	D	S	D	S	D	S	D
30–39	53,000	D	D	D	D	D	50,000	D	68,000	S	53,000	D
40–49	S	D	D	D	D	D	D	D	D	D	S	D
50–75	S	D	D	D	D	D	D	D	D	D	S	D
Different term used for gender identity	50,000	61,000	D	76,000	38,000	D	45,000	S	60,000	45,000	49,000	S
29 and younger	46,000	60,000	D	S	D	D	45,000	S	62,000	S	45,000	D
30–39	50,000	78,000	D	S	S	D	39,000	S	53,000	S	50,000	D
40–49	S	S	D	D	D	D	S	D	S	D	S	D
50–75	85,000	D	D	D	D	D	85,000	D	S	D	85,000	D
S&E occupations	74,000	82,000	D	S	S	D	91,000	D	75,000	S	74,000	D
29 and younger	70,000	S	D	S	D	D	76,000	D	70,000	39,000	70,000	D
30–39	102,000	S	D	D	D	D	96,000	D	95,000	105,000	100,000	D
40–49	S	D	D	D	D	D	D	D	S	D	S	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D

TABLE 4-2

Median annual salary of full-time employed college graduates, by sex assigned at birth, gender identity, major occupation, age, ethnicity, race, disability status, and citizenship status: 2023

(Dollars)

Sex assigned at birth, gender identity,[a] 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	S	D	D	D	D	D	63,000	D	69,000	S	S	D
29 and younger	S	D	D	D	D	D	D	D	D	D	S	D
30–39	D	D	D	D	D	D	S	D	S	D	D	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Computer and mathematical scientists	93,000	D	D	S	D	D	92,000	D	91,000	107,000	93,000	D
29 and younger	87,000	D	D	D	D	D	82,000	D	88,000	D	87,000	D
30–39	123,000	D	D	D	D	D	110,000	D	125,000	S	122,000	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Physical and related scientists	82,000	D	D	D	D	D	D	D	D	D	82,000	D
29 and younger	D	D	D	D	D	D	D	D	D	D	D	D
30–39	D	D	D	D	D	D	D	D	D	D	D	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Social and related scientists	S	D	D	D	D	D	D	D	S	S	S	D
29 and younger	D	D	D	D	D	D	D	D	D	D	D	D
30–39	D	D	D	D	D	D	D	D	S	D	D	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Engineers	S	D	D	D	D	D	S	D	S	D	S	D
29 and younger	S	D	D	D	D	D	D	D	S	D	S	D
30–39	*	D	D	D	D	D	*	D	D	D	*	D
40–49	D	D	D	D	D	D	D	D	D	D	D	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
S&E-related occupations	47,000	54,000	D	58,000	D	D	40,000	D	56,000	S	47,000	D
29 and younger	47,000	D	D	S	D	D	45,000	D	54,000	S	47,000	D
30–39	S	D	D	D	D	D	S	D	S	D	S	D
40–49	S	D	D	D	D	D	S	D	D	D	S	D
50–75	D	D	D	D	D	D	D	D	D	D	D	D
Non-S&E occupations	45,000	61,000	D	S	51,000	D	44,000	S	56,000	S	45,000	D
29 and younger	45,000	58,000	D	S	S	D	S	S	61,000	S	45,000	D
30–39	50,000	S	D	D	S	D	40,000	D	50,000	60,000	50,000	D
40–49	S	D	D	D	D	D	D	D	S	D	S	D
50–75	S	D	D	D	D	D	D	D	S	D	S	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.

[a] Gender identity estimates are tabulated based on "mark all that apply" responses to the following question, "How do you currently describe yourself? 1. Male, 2. Female, 3. Transgender, and 4. I use a different term." Thus, these four gender identity categories are not mutually exclusive.

Note(s):
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, 2023.

TABLE 4-3

Full-time employed scientists and engineers and their median annual salary, by major field of highest degree, employment sector, and primary work activity: 2023

(Number and dollars)

Field of highest degree and employment sector	Number	Salary	Primary work activity											
			Computer applications		Design[a]		Management and administration[b]		Research and development[c]		Teaching		Other[d]	
			Number	Salary	Number	Salary	Number	Salary	Number	Salary	Number	Salary	Number	Salary
All fields	8,086,000	110,000	2,324,000	125,000	864,000	115,000	1,872,000	114,000	1,865,000	100,000	325,000	79,000	836,000	94,000
Business or industry	6,148,000	120,000	2,089,000	130,000	778,000	115,000	1,485,000	115,000	1,136,000	115,000	35,000	73,000	624,000	97,000
4-year educational institution	869,000	74,000	66,000	87,000	14,000	76,000	93,000	87,000	438,000	56,000	212,000	80,000	45,000	72,000
2-year college or precollege educational institution	148,000	76,000	24,000	96,000	5,000	D	18,000	59,000	13,000	69,000	67,000	76,000	20,000	73,000
Government	921,000	100,000	145,000	103,000	66,000	103,000	275,000	107,000	278,000	91,000	11,000	62,000	146,000	90,000
S&E fields	6,077,000	113,000	1,854,000	129,000	668,000	110,000	1,249,000	118,000	1,469,000	104,000	239,000	77,000	598,000	93,000
Business or industry	4,617,000	120,000	1,690,000	132,000	606,000	112,000	971,000	120,000	872,000	120,000	28,000	71,000	450,000	95,000
4-year educational institution	679,000	74,000	47,000	87,000	10,000	80,000	60,000	93,000	372,000	56,000	162,000	81,000	27,000	70,000
2-year college or precollege educational institution	100,000	76,000	17,000	93,000	S	S	15,000	59,000	10,000	70,000	41,000	74,000	15,000	81,000
Government	681,000	100,000	100,000	103,000	48,000	106,000	203,000	110,000	216,000	91,000	7,000	51,000	106,000	92,000
Biological, agricultural, and environmental life sciences	689,000	82,000	46,000	95,000	15,000	95,000	151,000	92,000	335,000	75,000	52,000	79,000	91,000	73,000
Business or industry	359,000	93,000	36,000	109,000	12,000	96,000	92,000	98,000	145,000	99,000	5,000	102,000	68,000	67,000
4-year educational institution	199,000	60,000	S	S	D	D	16,000	83,000	136,000	56,000	36,000	80,000	4,000	75,000
2-year college or precollege educational institution	7,000	78,000	D	D	D	D	D	D	D	D	6,000	83,000	D	D
Government	125,000	78,000	3,000	73,000	S	S	42,000	81,000	54,000	78,000	S	S	20,000	88,000
Computer and mathematical sciences	2,016,000	123,000	1,155,000	128,000	104,000	130,000	312,000	124,000	272,000	114,000	46,000	78,000	127,000	99,000
Business or industry	1,705,000	130,000	1,045,000	132,000	95,000	130,000	263,000	129,000	190,000	125,000	S	S	110,000	99,000
4-year educational institution	109,000	92,000	25,000	94,000	D	D	12,000	110,000	38,000	93,000	30,000	78,000	S	S
2-year college or precollege educational institution	44,000	75,000	12,000	85,000	D	D	11,000	59,000	4,000	D	13,000	79,000	5,000	58,000
Government	158,000	100,000	73,000	103,000	6,000	99,000	27,000	128,000	40,000	61,000	D	D	11,000	112,000
Physical and related sciences	436,000	100,000	49,000	130,000	19,000	126,000	81,000	110,000	192,000	96,000	34,000	72,000	61,000	85,000
Business or industry	244,000	119,000	43,000	143,000	18,000	126,000	60,000	105,000	88,000	124,000	D	D	35,000	88,000
4-year educational institution	114,000	55,000	3,000	75,000	D	D	4,000	161,000	70,000	37,000	30,000	72,000	5,000	83,000
2-year college or precollege educational institution	4,000	63,000	D	D	D	D	D	D	D	D	4,000	59,000	D	D
Government	73,000	96,000	3,000	89,000	S	S	16,000	119,000	34,000	105,000	D	D	20,000	78,000
Social and related sciences	629,000	93,000	94,000	110,000	23,000	114,000	154,000	103,000	178,000	90,000	78,000	72,000	103,000	88,000
Business or industry	353,000	100,000	83,000	118,000	18,000	115,000	99,000	111,000	77,000	93,000	S	S	61,000	88,000
4-year educational institution	140,000	77,000	1,000	60,000	D	D	16,000	77,000	63,000	79,000	45,000	79,000	12,000	63,000
2-year college or precollege educational institution	37,000	72,000	S	S	D	D	S	S	5,000	S	17,000	51,000	9,000	91,000
Government	99,000	105,000	8,000	106,000	S	S	36,000	115,000	33,000	94,000	D	D	21,000	103,000
Engineering	2,307,000	120,000	510,000	134,000	507,000	110,000	552,000	120,000	492,000	120,000	30,000	105,000	215,000	105,000
Business or industry	1,957,000	120,000	482,000	135,000	463,000	110,000	457,000	120,000	372,000	129,000	S	S	176,000	107,000
4-year educational institution	116,000	82,000	12,000	70,000	5,000	S	12,000	116,000	65,000	58,000	21,000	100,000	3,000	67,000
2-year college or precollege educational institution	9,000	101,000	S	S	D	D	D	D	D	D	2,000	79,000	D	D

TABLE 4-3

Full-time employed scientists and engineers and their median annual salary, by major field of highest degree, employment sector, and primary work activity: 2023

(Number and dollars)

Field of highest degree and employment sector	Number	Salary	Primary work activity											
			Computer applications		Design[a]		Management and administration[b]		Research and development[c]		Teaching		Other[d]	
			Number	Salary	Number	Salary	Number	Salary	Number	Salary	Number	Salary	Number	Salary
Government	225,000	110,000	14,000	105,000	38,000	106,000	83,000	119,000	55,000	114,000	D	D	35,000	96,000
S&E-related fields	494,000	96,000	125,000	103,000	43,000	95,000	121,000	96,000	133,000	85,000	18,000	81,000	53,000	113,000
Business or industry	358,000	101,000	109,000	108,000	38,000	98,000	99,000	96,000	75,000	100,000	2,000	D	35,000	96,000
4-year educational institution	71,000	71,000	4,000	78,000	D	D	5,000	80,000	42,000	S	9,000	87,000	S	S
2-year college or precollege educational institution	7,000	73,000	D	D	D	D	D	D	D	D	6,000	80,000	D	D
Government	58,000	84,000	11,000	79,000	3,000	72,000	17,000	85,000	16,000	81,000	D	D	10,000	94,000
Non-S&E fields	1,515,000	108,000	345,000	120,000	153,000	128,000	501,000	108,000	263,000	89,000	68,000	80,000	185,000	98,000
Business or industry	1,173,000	114,000	290,000	120,000	134,000	130,000	415,000	109,000	190,000	92,000	5,000	75,000	139,000	100,000
4-year educational institution	119,000	77,000	15,000	87,000	D	D	28,000	83,000	24,000	73,000	40,000	75,000	10,000	51,000
2-year college or precollege educational institution	41,000	80,000	D	D	D	D	3,000	53,000	4,000	64,000	20,000	81,000	5,000	47,000
Government	182,000	99,000	33,000	104,000	14,000	86,000	54,000	103,000	46,000	95,000	D	D	30,000	71,000

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

S&E = science and engineering.

[a] "Design" is no longer included in the definition of "Other" and is now its own category.
[b] 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.
[c] Research and development includes basic research, applied research, and development.
[d] Other work activity includes production, operations, and 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&E occupation. Four-year educational institution includes medical schools and university-affiliated research institutes. Government includes federal (civilian and military), state, and local employers.

Source(s):
National Center for Science and Engineering Statistics, National Survey of College Graduates, 2023.

TABLE 5-1

College graduates, by age, sex assigned at birth, gender identity, ethnicity, race, disability status, and age at onset of disability, broad occupation, labor force status, and median annual salary: 2023

(Number and dollars)

Age, sex assigned at birth, gender identity,[a] 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[b]	Not in labor force[c]				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	71,697,000	56,061,000	47,357,000	8,704,000	8,086,000	626,000	9,336,000	1,917,000	29,935,000	6,161,000	1,771,000	13,865,000	638,000	9,507,000	3,721,000	85,000
Female at birth	39,067,000	29,603,000	23,700,000	5,903,000	2,289,000	296,000	5,175,000	1,494,000	16,235,000	4,113,000	1,035,000	8,429,000	423,000	5,080,000	2,926,000	75,000
Male at birth	32,629,000	26,458,000	23,657,000	2,800,000	5,796,000	330,000	4,161,000	423,000	13,700,000	2,048,000	736,000	5,436,000	215,000	4,426,000	794,000	100,000
Female gender identity	38,904,000	29,454,000	23,598,000	5,856,000	2,278,000	288,000	5,159,000	1,486,000	16,161,000	4,082,000	1,018,000	8,432,000	412,000	5,097,000	2,923,000	75,000
Male gender identity	32,509,000	26,360,000	23,561,000	2,799,000	5,776,000	332,000	4,140,000	423,000	13,645,000	2,044,000	731,000	5,417,000	216,000	4,408,000	794,000	100,000
Transgender identity	139,000	102,000	93,000	S	23,000	S	14,000	D	56,000	1,000	21,000	S	D	D	S	70,000
Different term used for gender identity	295,000	256,000	199,000	57,000	38,000	6,000	35,000	S	126,000	38,000	19,000	S	D	D	8,000	50,000
Hispanic or Latino	7,379,000	6,016,000	5,204,000	812,000	785,000	66,000	983,000	159,000	3,436,000	587,000	274,000	1,089,000	70,000	495,000	524,000	75,000
Not Hispanic or Latino																
American Indian or Alaska Native	149,000	112,000	76,000	35,000	11,000	D	10,000	3,000	56,000	30,000	S	30,000	D	19,000	11,000	64,000
Asian	7,580,000	6,134,000	5,286,000	848,000	1,648,000	123,000	1,433,000	231,000	2,205,000	494,000	241,000	1,205,000	97,000	517,000	591,000	108,000
Black or African American	5,612,000	4,523,000	3,867,000	656,000	462,000	25,000	758,000	131,000	2,647,000	500,000	229,000	859,000	68,000	503,000	288,000	72,000
Native Hawaiian or Other Pacific Islander	68,000	42,000	31,000	S	6,000	D	9,000	D	15,000	S	S	17,000	D	9,000	D	80,000
White	48,985,000	37,670,000	31,567,000	6,103,000	4,958,000	395,000	5,853,000	1,306,000	20,756,000	4,401,000	939,000	10,376,000	358,000	7,816,000	2,201,000	87,000
More than one race	1,925,000	1,564,000	1,326,000	239,000	215,000	14,000	291,000	S	819,000	140,000	72,000	289,000	44,000	147,000	98,000	82,000
Without disability	61,783,000	49,379,000	42,000,000	7,379,000	7,222,000	538,000	8,432,000	1,705,000	26,346,000	5,135,000	1,432,000	10,972,000	538,000	7,646,000	2,788,000	88,000
With disability	9,914,000	6,682,000	5,357,000	1,324,000	864,000	87,000	904,000	211,000	3,589,000	1,026,000	340,000	2,893,000	100,000	1,861,000	933,000	75,000
Age at onset of disability																
Since birth	933,000	732,000	608,000	124,000	129,000	13,000	128,000	19,000	351,000	92,000	40,000	160,000	18,000	84,000	58,000	70,000
1–9	1,312,000	1,067,000	877,000	191,000	152,000	8,000	128,000	45,000	596,000	138,000	33,000	212,000	11,000	74,000	127,000	72,000
10–19	1,756,000	1,388,000	1,170,000	218,000	221,000	18,000	175,000	27,000	774,000	172,000	68,000	300,000	28,000	103,000	169,000	65,000
20–29	1,076,000	772,000	644,000	128,000	114,000	10,000	131,000	8,000	398,000	110,000	38,000	267,000	S	155,000	92,000	78,000
30–39	902,000	562,000	465,000	97,000	83,000	8,000	71,000	29,000	311,000	60,000	59,000	281,000	S	94,000	175,000	90,000
40–49	1,463,000	1,082,000	897,000	185,000	99,000	9,000	145,000	19,000	653,000	157,000	34,000	346,000	S	181,000	161,000	82,000
50–59	1,254,000	666,000	478,000	188,000	49,000	8,000	86,000	42,000	344,000	139,000	46,000	541,000	D	418,000	117,000	80,000
60–75	1,218,000	412,000	218,000	194,000	17,000	13,000	40,000	22,000	162,000	158,000	22,000	785,000	D	751,000	34,000	69,000
29 and younger	10,434,000	9,136,000	8,039,000	1,098,000	1,788,000	154,000	1,676,000	276,000	4,575,000	668,000	453,000	845,000	397,000	D	448,000	61,000
Female at birth	5,955,000	5,107,000	4,293,000	814,000	566,000	86,000	1,042,000	239,000	2,686,000	489,000	255,000	593,000	264,000	D	329,000	58,000
Male at birth	4,479,000	4,029,000	3,745,000	284,000	1,222,000	68,000	634,000	37,000	1,889,000	178,000	198,000	252,000	133,000	D	119,000	70,000
Female gender identity	5,872,000	5,043,000	4,244,000	799,000	559,000	79,000	1,036,000	233,000	2,650,000	487,000	248,000	581,000	253,000	D	328,000	58,000
Male gender identity	4,430,000	3,984,000	3,697,000	287,000	1,216,000	71,000	627,000	37,000	1,853,000	179,000	194,000	252,000	134,000	D	118,000	70,000
Transgender identity	65,000	42,000	34,000	S	8,000	S	6,000	D	S	S	12,000	S	D	D	D	73,000
Different term used for gender identity	144,000	120,000	107,000	S	22,000	S	14,000	D	71,000	3,000	S	S	D	D	S	46,000
Hispanic or Latino	1,506,000	1,250,000	1,078,000	172,000	228,000	19,000	219,000	38,000	631,000	115,000	111,000	146,000	42,000	D	104,000	59,000
Not Hispanic or Latino																

TABLE 5-1

College graduates, by age, sex assigned at birth, gender identity, ethnicity, race, disability status, and age at onset of disability, broad occupation, labor force status, and median annual salary: 2023

(Number and dollars)

Age, sex assigned at birth, gender identity,[a] 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[b]	Not in labor force[c]				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	
American Indian or Alaska Native	10,000	9,000	8,000	S	D	D	D	D	4,000	D	D	D	D	D	D	62,000
Asian	1,205,000	1,034,000	916,000	118,000	354,000	43,000	254,000	30,000	307,000	45,000	55,000	117,000	70,000	D	47,000	77,000
Black or African American	771,000	668,000	556,000	112,000	91,000	8,000	89,000	22,000	376,000	82,000	39,000	63,000	20,000	D	43,000	57,000
Native Hawaiian or Other Pacific Islander	10,000	5,000	4,000	D	D	D	1,000	D	D	D	D	D	D	D	D	S
White	6,385,000	5,684,000	5,093,000	591,000	1,036,000	79,000	1,040,000	137,000	3,017,000	375,000	212,000	488,000	246,000	D	243,000	62,000
More than one race	547,000	486,000	384,000	102,000	74,000	S	72,000	S	238,000	50,000	S	30,000	20,000	D	10,000	52,000
Without disability	9,307,000	8,188,000	7,218,000	971,000	1,585,000	133,000	1,529,000	256,000	4,103,000	582,000	400,000	718,000	354,000	D	365,000	62,000
With disability	1,127,000	948,000	821,000	127,000	203,000	22,000	147,000	20,000	471,000	85,000	53,000	127,000	44,000	D	83,000	56,000
Age at onset of disability														D		
Since birth	149,000	132,000	112,000	20,000	31,000	D	34,000	S	47,000	17,000	S	9,000	7,000	D	S	61,000
1–9	331,000	256,000	217,000	38,000	58,000	6,000	33,000	6,000	126,000	26,000	13,000	S	8,000	D	S	54,000
10–19	481,000	428,000	372,000	56,000	80,000	S	53,000	8,000	240,000	37,000	25,000	28,000	13,000	D	16,000	51,000
20–29	166,000	133,000	120,000	13,000	34,000	4,000	26,000	D	59,000	5,000	6,000	27,000	S	D	12,000	69,000
30–39	16,777,000	15,166,000	13,411,000	1,755,000	2,553,000	116,000	2,835,000	477,000	8,022,000	1,162,000	423,000	1,188,000	146,000	19,000	1,023,000	85,000
Female at birth	9,480,000	8,263,000	6,947,000	1,316,000	746,000	58,000	1,625,000	405,000	4,575,000	853,000	259,000	958,000	83,000	S	860,000	75,000
Male at birth	7,297,000	6,902,000	6,464,000	438,000	1,807,000	58,000	1,210,000	72,000	3,447,000	309,000	164,000	230,000	63,000	S	163,000	98,000
Female gender identity	9,422,000	8,218,000	6,904,000	1,315,000	746,000	57,000	1,615,000	405,000	4,543,000	852,000	247,000	957,000	83,000	S	859,000	75,000
Male gender identity	7,255,000	6,859,000	6,430,000	429,000	1,793,000	57,000	1,204,000	71,000	3,433,000	301,000	166,000	230,000	63,000	S	163,000	99,000
Transgender identity	43,000	35,000	35,000	1,000	9,000	D	4,000	D	21,000	D	S	1,000	D	D	1,000	73,000
Different term used for gender identity	96,000	87,000	69,000	18,000	13,000	S	S	D	42,000	10,000	S	2,000	D	D	2,000	50,000
Hispanic or Latino	2,051,000	1,813,000	1,624,000	189,000	279,000	19,000	337,000	49,000	1,008,000	120,000	51,000	187,000	14,000	D	168,000	75,000
Not Hispanic or Latino																
American Indian or Alaska Native	38,000	28,000	10,000	18,000	3,000	D	5,000	S	2,000	S	D	7,000	D	D	7,000	67,000
Asian	2,186,000	1,926,000	1,695,000	230,000	563,000	37,000	431,000	51,000	701,000	143,000	65,000	195,000	18,000	D	175,000	108,000
Black or African American	1,322,000	1,161,000	1,026,000	135,000	149,000	5,000	234,000	32,000	643,000	98,000	68,000	93,000	35,000	D	57,000	70,000
Native Hawaiian or Other Pacific Islander	14,000	11,000	6,000	D	S	D	D	D	3,000	D	D	D	D	D	D	77,000
White	10,637,000	9,752,000	8,634,000	1,118,000	1,489,000	51,000	1,729,000	321,000	5,416,000	745,000	216,000	669,000	73,000	S	586,000	85,000
More than one race	528,000	476,000	416,000	60,000	69,000	4,000	99,000	S	248,000	34,000	18,000	35,000	S	D	29,000	84,000
Without disability	15,131,000	13,750,000	12,177,000	1,573,000	2,310,000	107,000	2,637,000	449,000	7,230,000	1,017,000	352,000	1,028,000	120,000	17,000	891,000	87,000
With disability	1,646,000	1,416,000	1,234,000	182,000	243,000	9,000	198,000	28,000	793,000	145,000	71,000	159,000	S	D	132,000	72,000
Age at onset of disability																
Since birth	254,000	235,000	212,000	23,000	52,000	2,000	30,000	S	130,000	17,000	4,000	15,000	S	D	10,000	68,000
1–9	431,000	388,000	332,000	56,000	55,000	1,000	35,000	13,000	242,000	41,000	15,000	28,000	D	D	25,000	72,000
10–19	461,000	378,000	341,000	38,000	68,000	1,000	52,000	4,000	220,000	33,000	16,000	68,000	S	D	56,000	65,000
20–29	294,000	262,000	212,000	51,000	40,000	3,000	S	S	112,000	44,000	9,000	23,000	S	D	18,000	86,000

TABLE 5-1

College graduates, by age, sex assigned at birth, gender identity, ethnicity, race, disability status, and age at onset of disability, broad occupation, labor force status, and median annual salary: 2023

(Number and dollars)

Age, sex assigned at birth, gender identity,[a] 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[b]	Not in labor force[c]				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	
30–39	205,000	153,000	138,000	S	29,000	1,000	21,000	3,000	89,000	S	27,000	25,000	D	D	23,000	69,000
40–49	14,298,000	13,003,000	11,400,000	1,603,000	1,785,000	120,000	2,100,000	381,000	7,515,000	1,101,000	289,000	1,006,000	35,000	51,000	920,000	99,000
Female at birth	7,904,000	6,915,000	5,698,000	1,218,000	483,000	64,000	1,109,000	302,000	4,105,000	852,000	180,000	809,000	28,000	42,000	738,000	84,000
Male at birth	6,393,000	6,087,000	5,702,000	385,000	1,301,000	56,000	991,000	80,000	3,410,000	249,000	109,000	197,000	S	9,000	182,000	112,000
Female gender identity	7,900,000	6,906,000	5,687,000	1,218,000	481,000	64,000	1,111,000	301,000	4,095,000	854,000	180,000	814,000	28,000	42,000	744,000	84,000
Male gender identity	6,372,000	6,073,000	5,690,000	383,000	1,301,000	56,000	985,000	80,000	3,404,000	247,000	107,000	192,000	S	9,000	176,000	112,000
Transgender identity	22,000	21,000	20,000	D	5,000	D	D	D	S	D	D	D	D	D	D	67,000
Different term used for gender identity	14,000	S	S	D	S	D	S	D	S	D	D	D	D	D	D	S
Hispanic or Latino	1,576,000	1,428,000	1,257,000	170,000	145,000	17,000	191,000	30,000	921,000	124,000	40,000	108,000	D	S	104,000	87,000
Not Hispanic or Latino																
American Indian or Alaska Native	21,000	21,000	20,000	1,000	2,000	D	2,000	D	17,000	D	D	D	D	D	D	97,000
Asian	1,879,000	1,621,000	1,403,000	218,000	427,000	28,000	363,000	55,000	613,000	135,000	61,000	197,000	S	S	177,000	129,000
Black or African American	1,172,000	1,040,000	945,000	95,000	116,000	S	196,000	31,000	633,000	59,000	53,000	79,000	D	S	74,000	81,000
Native Hawaiian or Other Pacific Islander	23,000	17,000	14,000	D	D	D	7,000	D	S	D	D	D	D	D	D	99,000
White	9,307,000	8,593,000	7,508,000	1,084,000	1,053,000	69,000	1,291,000	258,000	5,165,000	758,000	128,000	586,000	23,000	31,000	532,000	98,000
More than one race	320,000	283,000	253,000	31,000	41,000	S	51,000	7,000	160,000	23,000	8,000	28,000	D	D	26,000	106,000
Without disability	12,618,000	11,631,000	10,205,000	1,426,000	1,614,000	112,000	1,904,000	340,000	6,687,000	974,000	210,000	776,000	27,000	29,000	720,000	100,000
With disability	1,680,000	1,371,000	1,195,000	176,000	171,000	8,000	196,000	41,000	828,000	128,000	79,000	230,000	8,000	22,000	199,000	83,000
Age at onset of disability																
Since birth	197,000	154,000	126,000	28,000	24,000	S	34,000	D	68,000	18,000	S	28,000	D	D	22,000	77,000
1–9	204,000	183,000	155,000	28,000	19,000	D	26,000	13,000	110,000	14,000	S	S	D	D	S	99,000
10–19	303,000	256,000	234,000	22,000	41,000	D	33,000	S	160,000	S	16,000	31,000	D	D	27,000	70,000
20–29	236,000	182,000	167,000	15,000	24,000	D	23,000	D	119,000	S	S	43,000	D	D	32,000	66,000
30–39	267,000	183,000	166,000	17,000	29,000	D	25,000	D	112,000	13,000	23,000	61,000	D	D	61,000	93,000
40–49	473,000	414,000	348,000	67,000	34,000	S	55,000	8,000	258,000	58,000	S	49,000	D	6,000	41,000	75,000
50–59	12,987,000	11,028,000	9,592,000	1,436,000	1,302,000	71,000	1,821,000	298,000	6,469,000	1,067,000	302,000	1,658,000	38,000	733,000	887,000	100,000
Female at birth	7,014,000	5,686,000	4,705,000	982,000	322,000	36,000	977,000	244,000	3,405,000	703,000	164,000	1,163,000	36,000	459,000	668,000	81,000
Male at birth	5,973,000	5,341,000	4,887,000	454,000	980,000	35,000	843,000	55,000	3,064,000	365,000	137,000	495,000	D	274,000	219,000	120,000
Female gender identity	6,983,000	5,660,000	4,702,000	958,000	321,000	36,000	976,000	243,000	3,406,000	679,000	164,000	1,158,000	36,000	459,000	663,000	81,000
Male gender identity	5,978,000	5,342,000	4,887,000	454,000	981,000	35,000	841,000	55,000	3,066,000	365,000	137,000	499,000	D	274,000	224,000	120,000
Transgender identity	S	S	S	D	D	D	D	D	D	D	D	D	D	D	D	S
Different term used for gender identity	36,000	S	S	D	D	D	D	D	D	D	D	D	D	D	D	S
Hispanic or Latino	1,283,000	1,080,000	923,000	157,000	92,000	5,000	167,000	17,000	664,000	136,000	39,000	163,000	S	53,000	99,000	90,000
Not Hispanic or Latino																
American Indian or Alaska Native	31,000	26,000	21,000	D	2,000	D	2,000	D	18,000	D	D	D	D	D	D	62,000

TABLE 5-1

College graduates, by age, sex assigned at birth, gender identity, ethnicity, race, disability status, and age at onset of disability, broad occupation, labor force status, and median annual salary: 2023

(Number and dollars)

Age, sex assigned at birth, gender identity,[a] 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[b]	Not in labor force[c]				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	
Asian	1,299,000	1,063,000	920,000	143,000	223,000	6,000	279,000	50,000	419,000	86,000	32,000	204,000	D	54,000	148,000	119,000
Black or African American	1,153,000	1,003,000	894,000	109,000	73,000	4,000	163,000	12,000	657,000	94,000	43,000	107,000	D	31,000	76,000	80,000
Native Hawaiian or Other Pacific Islander	15,000	8,000	6,000	D	1,000	D	D	D	S	D	D	D	D	D	D	83,000
White	8,947,000	7,645,000	6,642,000	1,004,000	887,000	53,000	1,159,000	213,000	4,596,000	738,000	181,000	1,120,000	9,000	572,000	539,000	100,000
More than one race	261,000	202,000	186,000	16,000	25,000	S	50,000	5,000	111,000	8,000	S	56,000	D	17,000	23,000	109,000
Without disability	10,703,000	9,307,000	8,190,000	1,117,000	1,132,000	55,000	1,584,000	243,000	5,473,000	819,000	234,000	1,162,000	S	589,000	548,000	100,000
With disability	2,284,000	1,721,000	1,402,000	319,000	170,000	16,000	236,000	55,000	996,000	248,000	67,000	496,000	S	144,000	339,000	80,000
Age at onset of disability																
Since birth	183,000	149,000	130,000	19,000	18,000	S	28,000	D	84,000	S	D	24,000	D	D	21,000	73,000
1–9	195,000	167,000	135,000	32,000	15,000	D	24,000	S	96,000	23,000	D	27,000	D	S	22,000	74,000
10–19	281,000	222,000	172,000	50,000	24,000	D	28,000	1,000	120,000	48,000	8,000	51,000	D	6,000	45,000	80,000
20–29	181,000	139,000	107,000	31,000	13,000	D	12,000	D	82,000	31,000	D	40,000	D	18,000	22,000	60,000
30–39	260,000	169,000	118,000	51,000	17,000	D	19,000	21,000	82,000	26,000	8,000	83,000	D	13,000	62,000	80,000
40–49	653,000	511,000	437,000	74,000	54,000	S	69,000	S	313,000	62,000	S	127,000	D	28,000	97,000	87,000
50–59	532,000	364,000	303,000	61,000	29,000	3,000	56,000	13,000	218,000	45,000	24,000	143,000	D	73,000	71,000	79,000
60–75	17,201,000	7,728,000	4,916,000	2,812,000	658,000	165,000	905,000	485,000	3,354,000	2,163,000	305,000	9,168,000	21,000	8,704,000	443,000	95,000
Female at birth	8,714,000	3,630,000	2,057,000	1,573,000	172,000	52,000	422,000	305,000	1,463,000	1,216,000	177,000	4,907,000	S	4,564,000	331,000	80,000
Male at birth	8,487,000	4,098,000	2,859,000	1,239,000	485,000	112,000	483,000	180,000	1,891,000	946,000	128,000	4,261,000	S	4,140,000	112,000	107,000
Female gender identity	8,727,000	3,627,000	2,061,000	1,566,000	172,000	52,000	422,000	305,000	1,467,000	1,209,000	178,000	4,922,000	S	4,581,000	330,000	80,000
Male gender identity	8,473,000	4,102,000	2,856,000	1,246,000	485,000	112,000	482,000	180,000	1,889,000	953,000	127,000	4,244,000	S	4,122,000	113,000	108,000
Transgender identity	S	*	*	D	D	D	D	D	D	D	D	D	D	D	D	*
Different term used for gender identity	5,000	3,000	S	D	D	D	D	D	D	D	D	D	D	D	D	S
Hispanic or Latino	962,000	445,000	321,000	124,000	41,000	6,000	69,000	25,000	211,000	92,000	33,000	484,000	D	434,000	50,000	75,000
Not Hispanic or Latino																
American Indian or Alaska Native	48,000	27,000	17,000	S	S	D	S	D	16,000	S	D	19,000	D	19,000	D	50,000
Asian	1,010,000	490,000	352,000	138,000	81,000	8,000	106,000	45,000	165,000	84,000	28,000	492,000	D	448,000	44,000	100,000
Black or African American	1,194,000	652,000	447,000	205,000	34,000	4,000	75,000	34,000	338,000	167,000	26,000	516,000	D	465,000	39,000	74,000
Native Hawaiian or Other Pacific Islander	7,000	1,000	1,000	D	D	D	D	D	D	D	D	5,000	D	4,000	D	D
White	13,711,000	5,996,000	3,690,000	2,306,000	494,000	143,000	634,000	377,000	2,563,000	1,786,000	203,000	7,512,000	S	7,203,000	301,000	98,000
More than one race	269,000	117,000	87,000	30,000	7,000	1,000	19,000	3,000	61,000	25,000	12,000	139,000	D	130,000	8,000	97,000
Without disability	14,024,000	6,502,000	4,210,000	2,292,000	581,000	132,000	777,000	417,000	2,852,000	1,742,000	234,000	7,287,000	S	7,011,000	264,000	97,000
With disability	3,177,000	1,226,000	706,000	520,000	77,000	32,000	128,000	68,000	501,000	420,000	70,000	1,881,000	S	1,693,000	179,000	75,000
Age at onset of disability																
Since birth	151,000	63,000	28,000	35,000	4,000	D	2,000	D	22,000	27,000	S	83,000	D	80,000	D	65,000
1–9	152,000	75,000	38,000	37,000	5,000	D	10,000	2,000	22,000	34,000	D	78,000	D	68,000	S	88,000

TABLE 5-1

College graduates, by age, sex assigned at birth, gender identity, ethnicity, race, disability status, and age at onset of disability, broad occupation, labor force status, and median annual salary: 2023

(Number and dollars)

Age, sex assigned at birth, gender identity,[a] 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[b]	Not in labor force[c]				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	
10–19	229,000	104,000	52,000	52,000	8,000	S	S	S	34,000	43,000	S	121,000	D	95,000	26,000	70,000
20–29	198,000	56,000	38,000	18,000	3,000	D	9,000	D	26,000	16,000	S	134,000	D	126,000	D	72,000
30–39	170,000	58,000	44,000	14,000	8,000	S	7,000	S	28,000	S	D	112,000	D	80,000	30,000	118,000
40–49	337,000	157,000	113,000	44,000	10,000	S	21,000	3,000	81,000	37,000	S	170,000	D	147,000	24,000	71,000
50–59	722,000	302,000	175,000	127,000	20,000	4,000	29,000	29,000	126,000	94,000	22,000	398,000	D	346,000	46,000	83,000
60–75	1,218,000	412,000	218,000	194,000	17,000	13,000	40,000	22,000	162,000	158,000	22,000	785,000	D	751,000	34,000	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.

[a] Gender identity estimates are tabulated based on "mark all that apply" responses to the following question, "How do you currently describe yourself? 1. Male, 2. Female, 3. Transgender, and 4. I use a different term." Thus, these four gender identity categories are not mutually exclusive.

[b] 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.

[c] Not in 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 and multiple response options for the gender identity question. 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, 2023.

TABLE 5-2

College graduates, by broad occupation, labor force status and characteristics, sex assigned at birth, gender identity, ethnicity, race, and disability status: 2023

(Number)

Occupation and labor force status and characteristics	Total	Sex assigned at birth		Gender identity[a]				Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity		American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race		
All occupations	70,944,000	38,519,000	32,425,000	38,356,000	32,305,000	139,000	294,000	7,211,000	143,000	7,334,000	5,522,000	62,000	48,766,000	1,907,000	61,186,000	9,757,000
Full-time employment status	47,357,000	23,700,000	23,657,000	23,598,000	23,561,000	93,000	199,000	5,204,000	76,000	5,286,000	3,867,000	31,000	31,567,000	1,326,000	42,000,000	5,357,000
Part-time employment status	8,704,000	5,903,000	2,800,000	5,856,000	2,799,000	S	57,000	812,000	35,000	848,000	656,000	S	6,103,000	239,000	7,379,000	1,324,000
Preference for full-time status																
Did not want full-time employment	7,036,000	4,841,000	2,196,000	4,801,000	2,200,000	S	41,000	571,000	29,000	586,000	442,000	S	5,205,000	193,000	6,078,000	959,000
Wanted full-time employment	1,667,000	1,063,000	605,000	1,054,000	599,000	D	16,000	241,000	S	261,000	214,000	D	898,000	45,000	1,302,000	365,000
Reason for part-time status																
Reason worked part time: did not need or want to work full-time	4,509,000	3,150,000	1,358,000	3,133,000	1,359,000	S	S	290,000	S	296,000	192,000	S	3,583,000	139,000	4,007,000	502,000
Reason worked part time: family responsibilities	3,202,000	2,610,000	592,000	2,582,000	587,000	S	37,000	308,000	3,000	392,000	196,000	D	2,237,000	61,000	2,752,000	450,000
Reason worked part time: full-time job not available	1,622,000	1,055,000	567,000	1,051,000	562,000	S	10,000	165,000	S	190,000	152,000	D	1,043,000	64,000	1,345,000	276,000
Reason worked part time: held another job	1,083,000	726,000	358,000	702,000	355,000	D	S	77,000	S	112,000	84,000	D	717,000	S	923,000	160,000
Reason worked part time: hours or work reduced	987,000	617,000	370,000	616,000	366,000	D	S	116,000	D	120,000	114,000	D	610,000	25,000	783,000	204,000
Reason worked part time: previously or semiretired	2,324,000	1,288,000	1,036,000	1,281,000	1,043,000	D	D	106,000	S	101,000	157,000	S	1,930,000	19,000	1,843,000	481,000
Reason worked part time: student	837,000	586,000	251,000	559,000	254,000	S	S	122,000	D	148,000	93,000	D	407,000	S	736,000	101,000
Reason worked part time: other	1,157,000	740,000	416,000	733,000	421,000	S	S	174,000	21,000	136,000	155,000	D	637,000	34,000	880,000	277,000
Not working, not looking for work	13,432,000	8,070,000	5,362,000	8,074,000	5,344,000	S	S	963,000	28,000	1,020,000	806,000	17,000	10,320,000	279,000	10,639,000	2,794,000
Not working, looking for work	1,451,000	846,000	605,000	828,000	601,000	21,000	19,000	232,000	S	181,000	193,000	D	776,000	64,000	1,169,000	282,000
Reason for not working																
Reasons for not working: illness or disability	1,415,000	782,000	633,000	758,000	636,000	S	S	168,000	10,000	68,000	172,000	D	924,000	73,000	436,000	979,000
Reasons for not working: did not need or want to work	2,799,000	1,928,000	871,000	1,931,000	866,000	9,000	S	215,000	S	241,000	102,000	D	2,158,000	75,000	2,262,000	537,000
Reasons for not working: family responsibilities	2,487,000	2,034,000	454,000	2,024,000	454,000	D	S	334,000	S	325,000	176,000	S	1,584,000	61,000	2,113,000	374,000
Reasons for not working: layoff from a job	635,000	323,000	312,000	309,000	311,000	11,000	13,000	101,000	D	77,000	86,000	D	345,000	22,000	533,000	102,000
Reasons for not working: retired	9,706,000	5,181,000	4,525,000	5,198,000	4,506,000	D	D	513,000	22,000	527,000	534,000	9,000	7,950,000	151,000	7,777,000	1,929,000
Reasons for not working: student	677,000	434,000	243,000	422,000	243,000	D	S	80,000	D	89,000	80,000	D	383,000	45,000	566,000	111,000
Reasons for not working: suitable job not available	974,000	588,000	386,000	582,000	382,000	10,000	S	142,000	D	147,000	86,000	D	539,000	53,000	715,000	259,000
Reasons for not working: other	922,000	594,000	328,000	596,000	326,000	D	D	153,000	D	122,000	119,000	D	490,000	28,000	721,000	201,000
S&E occupations	10,404,000	3,173,000	7,231,000	3,150,000	7,213,000	35,000	45,000	948,000	14,000	2,038,000	553,000	13,000	6,581,000	258,000	9,152,000	1,251,000
Full-time employment status	8,086,000	2,289,000	5,796,000	2,278,000	5,776,000	23,000	38,000	785,000	11,000	1,648,000	462,000	6,000	4,958,000	215,000	7,222,000	864,000
Part-time employment status	626,000	296,000	330,000	288,000	332,000	S	6,000	66,000	D	123,000	25,000	D	395,000	14,000	538,000	87,000
Preference for full-time status																
Did not want full-time employment	494,000	228,000	266,000	221,000	268,000	S	S	46,000	D	82,000	15,000	D	339,000	11,000	425,000	70,000
Wanted full-time employment	131,000	68,000	63,000	67,000	64,000	D	D	20,000	D	41,000	10,000	D	57,000	3,000	114,000	18,000
Reason for part-time status																
Reason worked part time: did not need or want to work full-time	289,000	136,000	152,000	130,000	157,000	D	1,000	22,000	D	26,000	5,000	D	228,000	8,000	256,000	33,000
Reason worked part time: family responsibilities	177,000	104,000	73,000	103,000	73,000	D	D	23,000	D	33,000	4,000	D	115,000	1,000	151,000	25,000

TABLE 5-2

College graduates, by broad occupation, labor force status and characteristics, sex assigned at birth, gender identity, ethnicity, race, and disability status: 2023

(Number)

Occupation and labor force status and characteristics	Total	Sex assigned at birth		Gender identity[a]				Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity		American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race		
Reason worked part time: full-time job not available	131,000	58,000	73,000	58,000	72,000	D	1,000	23,000	D	27,000	6,000	D	71,000	4,000	108,000	23,000
Reason worked part time: held another job	61,000	31,000	31,000	29,000	32,000	D	*	10,000	D	6,000	S	D	39,000	S	55,000	7,000
Reason worked part time: hours or work reduced	72,000	33,000	40,000	33,000	40,000	D	D	5,000	D	11,000	5,000	D	49,000	S	54,000	19,000
Reason worked part time: previously or semiretired	140,000	44,000	96,000	44,000	96,000	D	D	6,000	D	5,000	3,000	D	123,000	2,000	113,000	27,000
Reason worked part time: student	173,000	91,000	82,000	83,000	85,000	S	S	27,000	D	53,000	9,000	D	80,000	4,000	150,000	22,000
Reason worked part time: other	71,000	35,000	36,000	29,000	42,000	D	D	4,000	D	23,000	6,000	D	35,000	S	55,000	16,000
Not working, not looking for work	1,501,000	520,000	981,000	522,000	978,000	D	S	74,000	S	213,000	40,000	S	1,143,000	26,000	1,229,000	272,000
Not working, looking for work	191,000	67,000	124,000	62,000	126,000	S	S	23,000	D	53,000	25,000	D	85,000	3,000	163,000	28,000
Reason for not working																
Reasons for not working: illness or disability	117,000	38,000	79,000	37,000	79,000	D	D	15,000	D	10,000	S	D	74,000	S	43,000	73,000
Reasons for not working: did not need or want to work	317,000	140,000	177,000	140,000	177,000	D	D	15,000	D	39,000	3,000	D	253,000	7,000	253,000	65,000
Reasons for not working: family responsibilities	225,000	139,000	86,000	137,000	88,000	D	D	22,000	D	65,000	9,000	D	123,000	6,000	188,000	37,000
Reasons for not working: layoff from a job	113,000	40,000	73,000	35,000	76,000	S	S	15,000	D	31,000	S	D	42,000	4,000	95,000	19,000
Reasons for not working: retired	1,152,000	317,000	835,000	319,000	833,000	D	D	35,000	D	101,000	20,000	S	974,000	17,000	944,000	208,000
Reasons for not working: student	80,000	34,000	46,000	34,000	46,000	D	D	8,000	D	28,000	3,000	D	39,000	1,000	72,000	8,000
Reasons for not working: suitable job not available	102,000	37,000	65,000	35,000	65,000	D	S	8,000	D	30,000	3,000	D	58,000	1,000	84,000	18,000
Reasons for not working: other	113,000	35,000	78,000	35,000	78,000	D	D	12,000	D	32,000	9,000	D	56,000	3,000	101,000	12,000
S&E-related occupations	13,827,000	8,287,000	5,540,000	8,261,000	5,515,000	21,000	54,000	1,359,000	26,000	1,904,000	1,030,000	17,000	9,058,000	433,000	12,185,000	1,642,000
Full-time employment status	9,336,000	5,175,000	4,161,000	5,159,000	4,140,000	14,000	35,000	983,000	10,000	1,433,000	758,000	9,000	5,853,000	291,000	8,432,000	904,000
Part-time employment status	1,917,000	1,494,000	423,000	1,486,000	423,000	D	S	159,000	3,000	231,000	131,000	D	1,306,000	S	1,705,000	211,000
Preference for full-time status																
Did not want full-time employment	1,624,000	1,297,000	327,000	1,296,000	327,000	D	S	126,000	S	165,000	90,000	D	1,164,000	S	1,462,000	163,000
Wanted full-time employment	292,000	196,000	96,000	190,000	96,000	D	S	33,000	D	66,000	41,000	D	142,000	8,000	244,000	48,000
Reason for part-time status																
Reason worked part time: did not need or want to work full-time	1,121,000	886,000	234,000	887,000	234,000	D	D	56,000	S	86,000	53,000	D	853,000	S	1,013,000	107,000
Reason worked part time: family responsibilities	823,000	727,000	96,000	722,000	95,000	D	D	75,000	D	93,000	40,000	D	589,000	S	736,000	87,000
Reason worked part time: full-time job not available	245,000	177,000	68,000	176,000	68,000	D	D	26,000	D	39,000	23,000	D	152,000	4,000	210,000	35,000
Reason worked part time: held another job	282,000	224,000	58,000	218,000	58,000	D	D	16,000	D	35,000	6,000	D	179,000	S	258,000	25,000
Reason worked part time: hours or work reduced	216,000	153,000	63,000	151,000	63,000	D	D	29,000	D	32,000	14,000	D	139,000	2,000	178,000	37,000
Reason worked part time: previously or semiretired	358,000	217,000	141,000	217,000	141,000	D	D	20,000	D	25,000	23,000	D	286,000	S	288,000	70,000
Reason worked part time: student	201,000	165,000	36,000	158,000	36,000	D	D	28,000	D	31,000	18,000	D	77,000	S	185,000	16,000
Reason worked part time: other	207,000	151,000	55,000	151,000	55,000	D	S	25,000	D	43,000	25,000	D	106,000	7,000	170,000	37,000
Not working, not looking for work	2,384,000	1,499,000	885,000	1,497,000	886,000	D	D	191,000	11,000	215,000	119,000	D	1,789,000	52,000	1,900,000	484,000
Not working, looking for work	190,000	120,000	71,000	118,000	66,000	D	D	26,000	D	25,000	23,000	D	110,000	6,000	147,000	43,000
Reason for not working																

TABLE 5-2

College graduates, by broad occupation, labor force status and characteristics, sex assigned at birth, gender identity, ethnicity, race, and disability status: 2023

(Number)

Occupation and labor force status and characteristics	Total	Sex assigned at birth		Gender identity[a]				Hispanic or Latino	Not Hispanic or Latino						Without disability	With disability
		Female at birth	Male at birth	Female gender identity	Male gender identity	Transgender identity	Different term used for gender identity		American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	More than one race		
Reasons for not working: illness or disability	264,000	169,000	94,000	168,000	95,000	D	D	40,000	D	13,000	25,000	D	172,000	9,000	79,000	184,000
Reasons for not working: did not need or want to work	466,000	313,000	153,000	312,000	153,000	D	D	44,000	D	33,000	22,000	D	354,000	10,000	391,000	75,000
Reasons for not working: family responsibilities	389,000	335,000	54,000	335,000	54,000	D	D	54,000	D	50,000	31,000	D	240,000	11,000	327,000	62,000
Reasons for not working: layoff from a job	79,000	41,000	38,000	40,000	36,000	D	D	16,000	D	15,000	11,000	D	35,000	S	60,000	19,000
Reasons for not working: retired	1,687,000	942,000	744,000	942,000	744,000	D	D	96,000	6,000	113,000	77,000	D	1,360,000	35,000	1,357,000	329,000
Reasons for not working: student	201,000	134,000	67,000	133,000	66,000	D	D	21,000	D	36,000	9,000	D	122,000	13,000	166,000	35,000
Reasons for not working: suitable job not available	119,000	73,000	47,000	74,000	42,000	D	D	31,000	D	16,000	10,000	D	56,000	5,000	82,000	37,000
Reasons for not working: other	171,000	126,000	45,000	126,000	45,000	D	D	23,000	D	32,000	9,000	D	97,000	S	148,000	23,000
Non-S&E occupations	46,713,000	27,059,000	19,654,000	26,945,000	19,577,000	82,000	194,000	4,905,000	103,000	3,393,000	3,939,000	32,000	33,126,000	1,216,000	39,849,000	6,864,000
Full-time employment status	29,935,000	16,235,000	13,700,000	16,161,000	13,645,000	56,000	126,000	3,436,000	56,000	2,205,000	2,647,000	15,000	20,756,000	819,000	26,346,000	3,589,000
Part-time employment status	6,161,000	4,113,000	2,048,000	4,082,000	2,044,000	1,000	38,000	587,000	30,000	494,000	500,000	S	4,401,000	140,000	5,135,000	1,026,000
Preference for full-time status																
Did not want full-time employment	4,917,000	3,315,000	1,602,000	3,285,000	1,605,000	S	S	399,000	25,000	340,000	337,000	S	3,702,000	105,000	4,191,000	726,000
Wanted full-time employment	1,244,000	798,000	445,000	797,000	439,000	D	9,000	188,000	S	154,000	163,000	D	699,000	34,000	944,000	300,000
Reason for part-time status																
Reason worked part time: did not need or want to work full-time	3,099,000	2,128,000	972,000	2,116,000	968,000	S	S	212,000	S	184,000	134,000	S	2,502,000	60,000	2,738,000	361,000
Reason worked part time: family responsibilities	2,202,000	1,779,000	424,000	1,758,000	419,000	D	S	210,000	S	266,000	153,000	D	1,532,000	35,000	1,864,000	338,000
Reason worked part time: full-time job not available	1,246,000	820,000	426,000	817,000	422,000	D	8,000	116,000	S	124,000	123,000	D	820,000	56,000	1,028,000	218,000
Reason worked part time: held another job	739,000	471,000	268,000	456,000	265,000	D	S	51,000	D	70,000	75,000	D	499,000	40,000	610,000	129,000
Reason worked part time: hours or work reduced	699,000	432,000	267,000	432,000	263,000	D	S	82,000	D	78,000	95,000	D	422,000	21,000	551,000	148,000
Reason worked part time: previously or semiretired	1,827,000	1,028,000	799,000	1,021,000	806,000	D	D	81,000	S	72,000	130,000	D	1,521,000	15,000	1,442,000	385,000
Reason worked part time: student	463,000	330,000	133,000	318,000	133,000	D	S	68,000	D	64,000	66,000	D	249,000	11,000	400,000	63,000
Reason worked part time: other	880,000	555,000	325,000	553,000	324,000	S	D	144,000	20,000	70,000	124,000	D	497,000	25,000	655,000	224,000
Not working, not looking for work	9,547,000	6,051,000	3,496,000	6,055,000	3,480,000	S	S	698,000	15,000	591,000	647,000	8,000	7,388,000	201,000	7,509,000	2,038,000
Not working, looking for work	1,069,000	659,000	410,000	647,000	408,000	10,000	S	184,000	D	103,000	145,000	D	581,000	56,000	858,000	211,000
Reason for not working																
Reasons for not working: illness or disability	1,035,000	575,000	460,000	553,000	462,000	S	S	113,000	D	45,000	137,000	D	678,000	56,000	314,000	721,000
Reasons for not working: did not need or want to work	2,016,000	1,475,000	541,000	1,479,000	535,000	S	S	156,000	D	169,000	77,000	D	1,552,000	58,000	1,618,000	398,000
Reasons for not working: family responsibilities	1,874,000	1,560,000	314,000	1,552,000	312,000	D	D	258,000	D	211,000	137,000	D	1,221,000	44,000	1,598,000	276,000
Reasons for not working: layoff from a job	442,000	242,000	200,000	234,000	200,000	D	D	70,000	D	31,000	56,000	D	268,000	16,000	378,000	64,000
Reasons for not working: retired	6,867,000	3,922,000	2,946,000	3,937,000	2,929,000	D	D	381,000	15,000	313,000	437,000	S	5,615,000	100,000	5,476,000	1,391,000
Reasons for not working: student	396,000	266,000	130,000	256,000	131,000	D	D	51,000	D	25,000	67,000	D	222,000	31,000	329,000	67,000
Reasons for not working: suitable job not available	752,000	478,000	274,000	473,000	275,000	S	S	102,000	D	101,000	74,000	D	425,000	47,000	548,000	204,000
Reasons for not working: other	638,000	432,000	206,000	434,000	203,000	D	D	118,000	D	59,000	100,000	D	337,000	23,000	472,000	166,000

* = 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.

[a] Gender identity estimates are tabulated based on "mark all that apply" responses to the following question, "How do you currently describe yourself? 1. Male, 2. Female, 3. Transgender, and 4. I use a different term." Thus, these four gender identity categories are not mutually exclusive.

Note(s):
Numbers are rounded to the nearest 1,000. Detail may not add to total because of rounding and multiple response options for the gender identity question. 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. All individuals who report working part time, regardless of their preference for working part time, are asked their reasons for working part time. Full-time employed college graduates are individuals working at least 35 hours in a typical week. 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, 2023.

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: 2023

(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	44,588,000	16,434,000	5,903,000	5,749,000	4,849,000	11,654,000	20,110,000	6,659,000	2,249,000	1,846,000	1,591,000	3,648,000	2,898,000	1,136,000	322,000	222,000	177,000	378,000	4,101,000	1,442,000	415,000	338,000	204,000	728,000
Father's education																								
Less than high school completed	5,673,000	2,075,000	1,029,000	821,000	587,000	1,162,000	2,578,000	790,000	399,000	228,000	203,000	345,000	333,000	106,000	55,000	20,000	19,000	40,000	311,000	105,000	57,000	23,000	4,000	46,000
High school diploma or equivalent	11,160,000	3,470,000	1,609,000	1,588,000	1,269,000	3,224,000	4,500,000	1,131,000	565,000	497,000	380,000	979,000	529,000	157,000	72,000	52,000	27,000	87,000	657,000	170,000	79,000	72,000	38,000	128,000
Some college, vocational, or trade school (including 2-year degrees)	8,354,000	2,537,000	1,200,000	1,136,000	985,000	2,497,000	3,550,000	960,000	390,000	356,000	375,000	755,000	485,000	184,000	55,000	36,000	29,000	76,000	566,000	186,000	89,000	44,000	27,000	135,000
Bachelor's degree (e.g., BS, BA, AB)	10,283,000	4,363,000	1,117,000	1,203,000	1,008,000	2,592,000	4,413,000	1,741,000	417,000	378,000	333,000	734,000	660,000	269,000	66,000	51,000	51,000	87,000	973,000	336,000	70,000	88,000	59,000	187,000
Master's degree (e.g., MS, MA, MBA)	4,591,000	1,892,000	483,000	486,000	572,000	1,159,000	2,645,000	1,042,000	245,000	226,000	149,000	432,000	400,000	175,000	45,000	22,000	29,000	42,000	610,000	236,000	48,000	41,000	30,000	103,000
Professional degree (e.g., JD, LLB, MD, DDS)	1,626,000	939,000	161,000	119,000	108,000	299,000	1,033,000	517,000	74,000	65,000	46,000	136,000	200,000	109,000	11,000	12,000	11,000	24,000	596,000	285,000	30,000	31,000	26,000	70,000
Doctorate (e.g., PhD, DSc, EdD)	1,321,000	638,000	125,000	158,000	121,000	279,000	943,000	382,000	106,000	77,000	79,000	158,000	235,000	122,000	17,000	23,000	8,000	16,000	324,000	110,000	36,000	37,000	20,000	52,000
Not applicable	1,580,000	520,000	179,000	239,000	199,000	443,000	449,000	96,000	52,000	20,000	26,000	109,000	56,000	14,000	2,000	S	3,000	6,000	65,000	15,000	S	D	D	5,000
Mother's education																								
Less than high school completed	5,352,000	1,990,000	955,000	818,000	458,000	1,131,000	2,532,000	743,000	363,000	267,000	179,000	311,000	354,000	126,000	38,000	23,000	11,000	30,000	344,000	113,000	45,000	10,000	S	65,000
High school diploma or equivalent	13,190,000	4,469,000	2,075,000	1,845,000	1,521,000	3,280,000	5,396,000	1,524,000	653,000	512,000	478,000	1,057,000	666,000	218,000	94,000	60,000	38,000	82,000	849,000	273,000	139,000	82,000	28,000	152,000
Some college, vocational, or trade school (including 2-year degrees)	9,881,000	3,285,000	1,232,000	1,253,000	1,169,000	2,942,000	4,209,000	1,361,000	561,000	388,000	325,000	842,000	559,000	205,000	70,000	36,000	50,000	83,000	853,000	307,000	90,000	79,000	51,000	158,000
Bachelor's degree (e.g., BS, BA, AB)	10,009,000	4,158,000	1,041,000	1,134,000	948,000	2,729,000	4,369,000	1,641,000	387,000	368,000	336,000	794,000	617,000	263,000	67,000	50,000	28,000	84,000	1,102,000	359,000	85,000	101,000	81,000	188,000
Master's degree (e.g., MS, MA, MBA)	4,189,000	1,644,000	404,000	480,000	554,000	1,107,000	2,790,000	1,064,000	231,000	237,000	232,000	523,000	484,000	223,000	41,000	43,000	41,000	71,000	611,000	258,000	47,000	50,000	24,000	123,000
Professional degree (e.g., JD, LLB, MD, DDS)	581,000	307,000	32,000	69,000	43,000	131,000	287,000	144,000	25,000	22,000	20,000	32,000	83,000	46,000	5,000	3,000	6,000	8,000	198,000	72,000	S	14,000	S	25,000
Doctorate (e.g., PhD, DSc, EdD)	464,000	192,000	44,000	42,000	62,000	125,000	267,000	100,000	17,000	34,000	12,000	53,000	93,000	41,000	6,000	6,000	3,000	15,000	93,000	46,000	S	D	S	15,000
Not applicable	922,000	390,000	121,000	109,000	94,000	208,000	260,000	81,000	12,000	16,000	8,000	36,000	42,000	14,000	1,000	S	D	S	51,000	14,000	D	D	D	D
S&E fields	15,511,000	5,704,000	2,158,000	1,969,000	1,790,000	3,890,000	4,923,000	1,702,000	514,000	441,000	339,000	782,000	1,602,000	677,000	178,000	103,000	91,000	152,000	73,000	22,000	9,000	5,000	S	20,000
Father's education																								
Less than high school completed	1,764,000	628,000	332,000	285,000	198,000	321,000	537,000	162,000	77,000	42,000	30,000	94,000	172,000	64,000	24,000	7,000	13,000	11,000	12,000	2,000	S	S	D	S
High school diploma or equivalent	3,690,000	1,159,000	578,000	471,000	493,000	989,000	991,000	271,000	112,000	112,000	78,000	183,000	262,000	89,000	36,000	21,000	10,000	33,000	11,000	2,000	S	1,000	D	D
Some college, vocational, or trade school (including 2-year degrees)	2,849,000	860,000	412,000	408,000	342,000	826,000	813,000	231,000	80,000	96,000	63,000	140,000	229,000	87,000	28,000	14,000	13,000	27,000	13,000	S	S	D	D	S
Bachelor's degree (e.g., BS, BA, AB)	3,751,000	1,558,000	453,000	399,000	414,000	928,000	1,232,000	493,000	109,000	100,000	85,000	159,000	400,000	184,000	41,000	26,000	21,000	34,000	12,000	7,000	D	D	D	3,000
Master's degree (e.g., MS, MA, MBA)	1,759,000	727,000	186,000	220,000	174,000	452,000	740,000	290,000	80,000	51,000	46,000	107,000	248,000	107,000	26,000	15,000	21,000	22,000	15,000	4,000	D	D	D	4,000
Professional degree (e.g., JD, LLB, MD, DDS)	619,000	331,000	79,000	49,000	33,000	127,000	245,000	118,000	19,000	19,000	12,000	25,000	117,000	65,000	9,000	5,000	5,000	12,000	4,000	S	D	D	D	D
Doctorate (e.g., PhD, DSc, EdD)	588,000	275,000	60,000	78,000	50,000	125,000	265,000	108,000	28,000	18,000	19,000	59,000	155,000	77,000	12,000	13,000	6,000	12,000	5,000	S	D	D	D	D
Not applicable	492,000	166,000	58,000	60,000	85,000	123,000	99,000	29,000	8,000	4,000	5,000	16,000	19,000	5,000	2,000	S	S	D	D	D	D	D	D	D
Mother's education																								
Less than high school completed	1,719,000	651,000	323,000	274,000	166,000	304,000	633,000	200,000	74,000	60,000	32,000	79,000	209,000	83,000	26,000	7,000	7,000	8,000	14,000	3,000	S	S	D	D
High school diploma or equivalent	4,127,000	1,347,000	745,000	577,000	473,000	984,000	1,177,000	388,000	122,000	119,000	80,000	187,000	355,000	130,000	46,000	25,000	17,000	34,000	13,000	2,000	S	S	D	D
Some college, vocational, or trade school (including 2-year degrees)	3,373,000	1,069,000	407,000	418,000	452,000	1,026,000	962,000	290,000	118,000	97,000	81,000	176,000	280,000	109,000	29,000	18,000	20,000	41,000	19,000	8,000	D	2,000	D	S
Bachelor's degree (e.g., BS, BA, AB)	3,876,000	1,623,000	450,000	407,000	414,000	982,000	1,180,000	451,000	111,000	104,000	75,000	191,000	369,000	169,000	41,000	25,000	19,000	35,000	16,000	5,000	D	D	D	4,000
Master's degree (e.g., MS, MA, MBA)	1,607,000	625,000	162,000	212,000	190,000	418,000	724,000	273,000	73,000	43,000	57,000	111,000	255,000	123,000	24,000	20,000	23,000	20,000	8,000	1,000	D	D	D	3,000

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: 2023

(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)	276,000	135,000	24,000	31,000	18,000	67,000	91,000	49,000	6,000	5,000	4,000	13,000	55,000	31,000	4,000	2,000	3,000	5,000	2,000	S	D	D	D	D
Doctorate (e.g., PhD, DSc, EdD)	224,000	114,000	18,000	17,000	23,000	53,000	70,000	29,000	5,000	8,000	4,000	13,000	59,000	26,000	6,000	4,000	2,000	9,000	D	D	D	D	D	D
Not applicable	309,000	139,000	30,000	32,000	52,000	56,000	85,000	21,000	7,000	4,000	S	12,000	19,000	6,000	1,000	S	D	S	D	D	D	D	D	D
S&E-related fields	5,284,000	1,721,000	725,000	625,000	646,000	1,566,000	2,930,000	880,000	306,000	234,000	241,000	604,000	422,000	129,000	36,000	28,000	39,000	81,000	2,071,000	571,000	171,000	134,000	94,000	352,000
Father's education																								
Less than high school completed	845,000	280,000	133,000	105,000	92,000	235,000	357,000	105,000	60,000	33,000	25,000	61,000	45,000	8,000	S	5,000	S	S	162,000	55,000	30,000	4,000	2,000	10,000
High school diploma or equivalent	1,424,000	399,000	180,000	197,000	187,000	462,000	674,000	137,000	83,000	57,000	75,000	170,000	100,000	29,000	8,000	S	10,000	24,000	312,000	62,000	23,000	28,000	12,000	51,000
Some college, vocational, or trade school (including 2-year degrees)	975,000	271,000	146,000	110,000	122,000	326,000	553,000	141,000	60,000	40,000	49,000	135,000	72,000	14,000	6,000	3,000	S	19,000	260,000	74,000	32,000	20,000	13,000	60,000
Bachelor's degree (e.g., BS, BA, AB)	1,167,000	463,000	146,000	126,000	116,000	316,000	622,000	213,000	57,000	45,000	42,000	126,000	105,000	34,000	9,000	7,000	11,000	21,000	496,000	123,000	30,000	39,000	24,000	103,000
Master's degree (e.g., MS, MA, MBA)	442,000	137,000	71,000	46,000	86,000	102,000	398,000	154,000	30,000	41,000	28,000	53,000	48,000	19,000	9,000	S	S	S	309,000	81,000	14,000	22,000	20,000	58,000
Professional degree (e.g., JD, LLB, MD, DDS)	171,000	76,000	15,000	11,000	18,000	50,000	154,000	73,000	6,000	6,000	9,000	24,000	19,000	10,000	D	D	D	1,000	330,000	141,000	S	10,000	11,000	44,000
Doctorate (e.g., PhD, DSc, EdD)	92,000	36,000	24,000	S	6,000	21,000	120,000	47,000	8,000	10,000	12,000	21,000	24,000	13,000	D	D	D	D	165,000	33,000	27,000	11,000	S	24,000
Not applicable	168,000	60,000	9,000	S	20,000	52,000	53,000	9,000	3,000	2,000	2,000	14,000	9,000	S	D	D	D	D	37,000	D	D	D	D	S
Mother's education																								
Less than high school completed	774,000	246,000	125,000	94,000	64,000	244,000	349,000	93,000	47,000	30,000	19,000	64,000	47,000	9,000	2,000	6,000	S	S	198,000	59,000	25,000	1,000	S	18,000
High school diploma or equivalent	1,582,000	470,000	252,000	219,000	233,000	408,000	763,000	202,000	102,000	61,000	89,000	156,000	97,000	22,000	14,000	5,000	15,000	20,000	394,000	103,000	56,000	32,000	13,000	65,000
Some college, vocational, or trade school (including 2-year degrees)	1,240,000	382,000	166,000	162,000	147,000	383,000	637,000	185,000	77,000	42,000	42,000	160,000	88,000	27,000	10,000	S	5,000	18,000	401,000	101,000	37,000	29,000	15,000	91,000
Bachelor's degree (e.g., BS, BA, AB)	1,086,000	382,000	110,000	107,000	130,000	358,000	687,000	215,000	46,000	48,000	60,000	134,000	94,000	37,000	5,000	4,000	5,000	17,000	564,000	150,000	41,000	37,000	48,000	90,000
Master's degree (e.g., MS, MA, MBA)	385,000	161,000	40,000	27,000	40,000	118,000	369,000	139,000	28,000	42,000	23,000	72,000	74,000	29,000	S	9,000	13,000	12,000	297,000	93,000	9,000	28,000	S	65,000
Professional degree (e.g., JD, LLB, MD, DDS)	73,000	28,000	S	S	18,000	19,000	50,000	25,000	S	2,000	S	7,000	6,000	1,000	D	D	D	D	134,000	42,000	S	D	D	19,000
Doctorate (e.g., PhD, DSc, EdD)	46,000	4,000	S	D	5,000	15,000	44,000	13,000	4,000	7,000	S	9,000	12,000	3,000	D	D	D	D	49,000	21,000	S	D	D	4,000
Not applicable	97,000	48,000	11,000	S	10,000	21,000	32,000	9,000	D	2,000	D	2,000	3,000	S	D	D	D	D	35,000	D	D	D	D	D
Non-S&E fields	23,793,000	9,008,000	3,019,000	3,155,000	2,413,000	6,198,000	12,257,000	4,077,000	1,429,000	1,171,000	1,011,000	2,262,000	874,000	330,000	108,000	91,000	47,000	145,000	1,957,000	848,000	235,000	199,000	107,000	355,000
Father's education																								
Less than high school completed	3,064,000	1,167,000	563,000	431,000	297,000	606,000	1,684,000	523,000	262,000	154,000	149,000	190,000	116,000	35,000	28,000	8,000	5,000	20,000	136,000	48,000	25,000	18,000	S	29,000
High school diploma or equivalent	6,045,000	1,912,000	852,000	920,000	589,000	1,773,000	2,835,000	723,000	370,000	328,000	227,000	627,000	166,000	39,000	28,000	26,000	8,000	30,000	334,000	106,000	52,000	43,000	26,000	77,000
Some college, vocational, or trade school (including 2-year degrees)	4,530,000	1,406,000	641,000	618,000	521,000	1,344,000	2,184,000	588,000	250,000	220,000	263,000	480,000	184,000	83,000	21,000	19,000	S	S	293,000	110,000	54,000	23,000	14,000	69,000
Bachelor's degree (e.g., BS, BA, AB)	5,365,000	2,342,000	517,000	678,000	479,000	1,348,000	2,558,000	1,035,000	252,000	233,000	206,000	449,000	155,000	51,000	16,000	S	18,000	31,000	465,000	206,000	40,000	48,000	35,000	81,000
Master's degree (e.g., MS, MA, MBA)	2,390,000	1,028,000	226,000	219,000	312,000	605,000	1,507,000	598,000	136,000	134,000	75,000	272,000	104,000	49,000	9,000	5,000	4,000	17,000	287,000	152,000	33,000	19,000	9,000	42,000
Professional degree (e.g., JD, LLB, MD, DDS)	836,000	532,000	67,000	59,000	56,000	122,000	633,000	326,000	48,000	40,000	24,000	87,000	64,000	34,000	2,000	S	5,000	S	261,000	141,000	16,000	20,000	15,000	26,000
Doctorate (e.g., PhD, DSc, EdD)	641,000	326,000	41,000	77,000	65,000	132,000	558,000	227,000	70,000	49,000	48,000	77,000	57,000	33,000	4,000	6,000	D	S	154,000	73,000	S	26,000	7,000	29,000
Not applicable	921,000	294,000	113,000	153,000	93,000	268,000	298,000	58,000	41,000	14,000	19,000	79,000	27,000	7,000	D	D	D	S	26,000	13,000	S	D	D	3,000
Mother's education																								
Less than high school completed	2,859,000	1,093,000	507,000	449,000	228,000	583,000	1,550,000	449,000	243,000	177,000	127,000	168,000	97,000	35,000	9,000	9,000	3,000	17,000	132,000	50,000	17,000	8,000	S	41,000
High school diploma or equivalent	7,481,000	2,652,000	1,077,000	1,048,000	815,000	1,888,000	3,456,000	934,000	429,000	332,000	309,000	714,000	214,000	67,000	34,000	30,000	7,000	29,000	442,000	168,000	79,000	49,000	15,000	86,000

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: 2023

(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
Some college, vocational, or trade school (including 2-year degrees)	5,269,000	1,833,000	659,000	673,000	570,000	1,533,000	2,610,000	886,000	366,000	249,000	202,000	505,000	191,000	68,000	30,000	14,000	25,000	24,000	433,000	198,000	52,000	48,000	35,000	62,000
Bachelor's degree (e.g., BS, BA, AB)	5,047,000	2,153,000	481,000	619,000	404,000	1,390,000	2,502,000	976,000	230,000	216,000	201,000	470,000	154,000	57,000	22,000	S	4,000	32,000	522,000	204,000	43,000	62,000	32,000	95,000
Master's degree (e.g., MS, MA, MBA)	2,197,000	858,000	203,000	241,000	324,000	571,000	1,697,000	653,000	130,000	151,000	151,000	340,000	155,000	71,000	12,000	14,000	5,000	39,000	306,000	164,000	37,000	23,000	10,000	54,000
Professional degree (e.g., JD, LLB, MD, DDS)	232,000	144,000	S	30,000	7,000	45,000	146,000	71,000	18,000	16,000	S	13,000	22,000	14,000	D	D	D	D	62,000	27,000	D	8,000	S	6,000
Doctorate (e.g., PhD, DSc, EdD)	193,000	73,000	5,000	S	34,000	57,000	153,000	57,000	9,000	19,000	S	30,000	22,000	12,000	D	D	D	D	44,000	25,000	D	D	D	S
Not applicable	516,000	203,000	81,000	70,000	32,000	130,000	144,000	51,000	4,000	10,000	3,000	22,000	20,000	7,000	D	D	D	D	16,000	12,000	D	D	D	D

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, 2023.

TABLE 5-4

Employed college graduates, by place of birth, level of highest degree, major occupation, and employment sector: 2023

(Number)

Place of birth, level of highest degree, and occupation	Total	Business or industry	4-year educational institution[a]	2-year college or precollege educational institution	Government[b]
All places of birth	56,061,000	39,308,000	3,569,000	7,119,000	6,065,000
S&E occupations	8,711,000	6,517,000	1,058,000	176,000	960,000
Biological, agricultural, and other life scientists	813,000	357,000	306,000	20,000	131,000
Computer and mathematical scientists	4,573,000	3,894,000	243,000	87,000	350,000
Physical and related scientists	430,000	189,000	131,000	8,000	102,000
Social and related scientists	631,000	221,000	257,000	54,000	99,000
Engineers	2,263,000	1,856,000	122,000	8,000	278,000
S&E-related occupations	11,253,000	8,231,000	986,000	1,066,000	969,000
Non-S&E occupations	36,097,000	24,560,000	1,524,000	5,877,000	4,136,000
Bachelor's	34,400,000	25,967,000	1,315,000	3,425,000	3,693,000
S&E occupations	5,069,000	4,168,000	293,000	71,000	537,000
Biological, agricultural, and other life scientists	315,000	166,000	82,000	3,000	65,000
Computer and mathematical scientists	2,999,000	2,619,000	105,000	58,000	217,000
Physical and related scientists	186,000	101,000	38,000	1,000	45,000
Social and related scientists	168,000	80,000	40,000	8,000	39,000
Engineers	1,402,000	1,203,000	27,000	D	171,000
S&E-related occupations	5,881,000	4,493,000	447,000	415,000	526,000
Non-S&E occupations	23,449,000	17,306,000	575,000	2,938,000	2,630,000
Master's	15,780,000	9,593,000	1,059,000	3,398,000	1,730,000
S&E occupations	2,599,000	1,894,000	302,000	80,000	323,000
Biological, agricultural, and other life scientists	211,000	88,000	74,000	9,000	40,000
Computer and mathematical scientists	1,347,000	1,126,000	77,000	28,000	116,000
Physical and related scientists	119,000	46,000	36,000	5,000	33,000
Social and related scientists	242,000	93,000	74,000	33,000	42,000
Engineers	680,000	542,000	41,000	6,000	92,000
S&E-related occupations	3,096,000	2,023,000	187,000	591,000	294,000
Non-S&E occupations	10,085,000	5,675,000	570,000	2,727,000	1,113,000
Doctorate	2,420,000	1,116,000	864,000	257,000	183,000
S&E occupations	973,000	420,000	445,000	21,000	87,000
Biological, agricultural, and other life scientists	264,000	98,000	137,000	5,000	25,000
Computer and mathematical scientists	207,000	135,000	60,000	1,000	10,000
Physical and related scientists	123,000	41,000	56,000	2,000	23,000
Social and related scientists	198,000	35,000	138,000	11,000	14,000
Engineers	181,000	111,000	54,000	D	15,000
S&E-related occupations	562,000	369,000	90,000	51,000	51,000
Non-S&E occupations	885,000	327,000	329,000	184,000	45,000
Professional	3,461,000	2,631,000	331,000	39,000	459,000
S&E occupations	70,000	34,000	18,000	S	14,000
S&E-related occupations	1,714,000	1,346,000	262,000	8,000	98,000
Non-S&E occupations	1,677,000	1,251,000	50,000	28,000	348,000
Foreign-born college graduates	10,004,000	7,505,000	843,000	733,000	923,000
S&E occupations	2,446,000	1,873,000	361,000	32,000	180,000
Biological, agricultural, and other life scientists	233,000	111,000	98,000	2,000	22,000

TABLE 5-4

Employed college graduates, by place of birth, level of highest degree, major occupation, and employment sector: 2023

(Number)

Place of birth, level of highest degree, and occupation	Total	Business or industry	4-year educational institution[a]	2-year college or precollege educational institution	Government[b]
Computer and mathematical scientists	1,447,000	1,264,000	88,000	19,000	76,000
Physical and related scientists	86,000	30,000	44,000	2,000	10,000
Social and related scientists	133,000	39,000	71,000	7,000	16,000
Engineers	547,000	429,000	60,000	2,000	56,000
S&E-related occupations	2,327,000	1,777,000	238,000	93,000	219,000
Non-S&E occupations	5,230,000	3,855,000	243,000	608,000	524,000
Bachelor's	5,338,000	4,212,000	241,000	364,000	522,000
S&E occupations	977,000	833,000	55,000	10,000	79,000
Biological, agricultural, and other life scientists	47,000	24,000	14,000	D	9,000
Computer and mathematical scientists	665,000	598,000	24,000	8,000	35,000
Physical and related scientists	18,000	9,000	8,000	D	2,000
Social and related scientists	25,000	14,000	3,000	D	7,000
Engineers	221,000	188,000	6,000	D	27,000
S&E-related occupations	1,123,000	856,000	102,000	40,000	125,000
Non-S&E occupations	3,238,000	2,524,000	84,000	313,000	317,000
Master's	3,294,000	2,429,000	243,000	336,000	286,000
S&E occupations	1,008,000	812,000	113,000	16,000	67,000
Biological, agricultural, and other life scientists	52,000	28,000	21,000	D	3,000
Computer and mathematical scientists	663,000	586,000	31,000	10,000	35,000
Physical and related scientists	24,000	7,000	13,000	D	3,000
Social and related scientists	47,000	16,000	24,000	3,000	4,000
Engineers	221,000	174,000	24,000	S	22,000
S&E-related occupations	684,000	531,000	50,000	48,000	56,000
Non-S&E occupations	1,602,000	1,087,000	80,000	272,000	163,000
Doctorate	813,000	438,000	290,000	32,000	53,000
S&E occupations	446,000	222,000	188,000	5,000	32,000
Biological, agricultural, and other life scientists	124,000	56,000	58,000	*	9,000
Computer and mathematical scientists	117,000	77,000	33,000	1,000	6,000
Physical and related scientists	44,000	14,000	24,000	S	5,000
Social and related scientists	57,000	8,000	43,000	2,000	5,000
Engineers	104,000	66,000	31,000	D	7,000
S&E-related occupations	171,000	121,000	35,000	5,000	10,000
Non-S&E occupations	196,000	96,000	68,000	22,000	11,000
Professional	559,000	426,000	70,000	1,000	63,000
S&E occupations	15,000	7,000	6,000	D	S
S&E-related occupations	349,000	269,000	52,000	D	28,000
Non-S&E occupations	194,000	149,000	S	D	33,000
U.S.-born college graduates	46,057,000	31,803,000	2,726,000	6,386,000	5,142,000
S&E occupations	6,265,000	4,644,000	697,000	144,000	780,000
Biological, agricultural, and other life scientists	580,000	246,000	208,000	18,000	108,000
Computer and mathematical scientists	3,126,000	2,630,000	155,000	68,000	273,000
Physical and related scientists	344,000	159,000	86,000	6,000	93,000
Social and related scientists	498,000	182,000	186,000	47,000	84,000

TABLE 5-4

Employed college graduates, by place of birth, level of highest degree, major occupation, and employment sector: 2023

(Number)

Place of birth, level of highest degree, and occupation	Total	Business or industry	4-year educational institution[a]	2-year college or precollege educational institution	Government[b]
Engineers	1,717,000	1,427,000	62,000	6,000	222,000
S&E-related occupations	8,925,000	6,454,000	748,000	973,000	750,000
Non-S&E occupations	30,867,000	20,705,000	1,281,000	5,270,000	3,611,000
Bachelor's	29,062,000	21,755,000	1,074,000	3,061,000	3,171,000
S&E occupations	4,092,000	3,335,000	239,000	61,000	458,000
Biological, agricultural, and other life scientists	267,000	142,000	68,000	S	56,000
Computer and mathematical scientists	2,334,000	2,021,000	81,000	50,000	182,000
Physical and related scientists	168,000	93,000	30,000	1,000	44,000
Social and related scientists	142,000	66,000	37,000	7,000	32,000
Engineers	1,181,000	1,014,000	22,000	D	144,000
S&E-related occupations	4,758,000	3,637,000	345,000	375,000	401,000
Non-S&E occupations	20,211,000	14,783,000	491,000	2,625,000	2,313,000
Master's	12,486,000	7,163,000	816,000	3,062,000	1,444,000
S&E occupations	1,592,000	1,083,000	189,000	65,000	255,000
Biological, agricultural, and other life scientists	159,000	61,000	53,000	9,000	36,000
Computer and mathematical scientists	684,000	540,000	46,000	18,000	81,000
Physical and related scientists	95,000	39,000	23,000	4,000	30,000
Social and related scientists	194,000	76,000	50,000	30,000	39,000
Engineers	459,000	368,000	17,000	4,000	70,000
S&E-related occupations	2,412,000	1,492,000	138,000	543,000	238,000
Non-S&E occupations	8,483,000	4,588,000	490,000	2,454,000	950,000
Doctorate	1,607,000	678,000	575,000	225,000	130,000
S&E occupations	527,000	199,000	257,000	16,000	55,000
Biological, agricultural, and other life scientists	141,000	42,000	79,000	5,000	16,000
Computer and mathematical scientists	90,000	58,000	27,000	1,000	4,000
Physical and related scientists	79,000	27,000	33,000	S	18,000
Social and related scientists	141,000	27,000	95,000	9,000	9,000
Engineers	76,000	45,000	23,000	D	8,000
S&E-related occupations	391,000	248,000	55,000	46,000	41,000
Non-S&E occupations	689,000	232,000	262,000	162,000	34,000
Professional	2,902,000	2,206,000	261,000	38,000	397,000
S&E occupations	55,000	27,000	13,000	D	12,000
S&E-related occupations	1,364,000	1,076,000	210,000	8,000	70,000
Non-S&E occupations	1,483,000	1,102,000	39,000	27,000	314,000

* = 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.

[a] Four-year educational institution includes medical schools and university-affiliated research institutes.
[b] Government includes federal (civilian and 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, 2023.

TABLE 5-5

Employed foreign-born college graduates, by broad degree field, place of birth, and broad occupation: 2023

(Number)

Degree field and place of birth	Total	S&E occupations	S&E-related occupations	Non-S&E occupations
All fields	10,004,000	2,446,000	2,327,000	5,230,000
India	1,491,000	642,000	391,000	458,000
China	785,000	330,000	194,000	260,000
Mexico	601,000	80,000	93,000	428,000
Philippines	588,000	52,000	265,000	271,000
Canada	398,000	79,000	55,000	264,000
South Korea	377,000	62,000	86,000	229,000
Germany	312,000	48,000	52,000	213,000
Vietnam	216,000	50,000	48,000	118,000
Nigeria	214,000	39,000	77,000	98,000
Colombia	209,000	27,000	35,000	147,000
United Kingdom	209,000	46,000	33,000	130,000
Taiwan	204,000	63,000	52,000	89,000
Japan	188,000	37,000	30,000	121,000
Jamaica	162,000	15,000	43,000	104,000
Cuba	158,000	20,000	37,000	101,000
Iran	153,000	44,000	50,000	60,000
Brazil	139,000	37,000	24,000	78,000
Pakistan	132,000	24,000	23,000	84,000
Russia	128,000	36,000	16,000	75,000
Venezuela	122,000	27,000	14,000	81,000
Hong Kong	114,000	32,000	21,000	62,000
Dominican Republic	109,000	9,000	24,000	77,000
Peru	104,000	16,000	12,000	75,000
France	99,000	15,000	21,000	63,000
Ukraine	94,000	30,000	12,000	52,000
All other countries or economies	2,696,000	585,000	617,000	1,494,000
S&E fields	4,254,000	1,963,000	819,000	1,472,000
India	878,000	549,000	182,000	148,000
China	472,000	282,000	101,000	89,000
Mexico	184,000	56,000	37,000	91,000
Canada	141,000	63,000	15,000	64,000
South Korea	135,000	43,000	32,000	60,000
Germany	126,000	37,000	12,000	77,000
Philippines	125,000	42,000	27,000	56,000
Taiwan	99,000	54,000	19,000	27,000
United Kingdom	99,000	37,000	16,000	46,000
Vietnam	87,000	38,000	21,000	28,000
Iran	78,000	38,000	17,000	23,000
Russia	75,000	29,000	9,000	S
Colombia	74,000	16,000	8,000	50,000
Japan	69,000	31,000	14,000	24,000
Nigeria	62,000	21,000	18,000	22,000
Cuba	60,000	14,000	11,000	35,000
Brazil	60,000	25,000	11,000	24,000
Venezuela	53,000	20,000	6,000	27,000
Hong Kong	48,000	21,000	11,000	16,000
Jamaica	47,000	10,000	8,000	30,000
Pakistan	46,000	16,000	6,000	24,000
Ukraine	44,000	24,000	4,000	16,000
Bangladesh	38,000	22,000	6,000	10,000

TABLE 5-5

Employed foreign-born college graduates, by broad degree field, place of birth, and broad occupation: 2023

(Number)

Degree field and place of birth	Total	S&E occupations	S&E-related occupations	Non-S&E occupations
Italy	35,000	13,000	S	20,000
Turkey	34,000	20,000	5,000	8,000
All other countries or economies	1,084,000	443,000	221,000	420,000
S&E-related fields	1,696,000	148,000	1,207,000	340,000
India	252,000	51,000	164,000	37,000
Philippines	241,000	3,000	209,000	29,000
China	107,000	19,000	74,000	13,000
Nigeria	77,000	S	46,000	24,000
Mexico	66,000	7,000	39,000	20,000
Canada	54,000	3,000	35,000	S
South Korea	53,000	3,000	43,000	7,000
Germany	40,000	4,000	32,000	4,000
Iran	40,000	3,000	29,000	7,000
Jamaica	38,000	1,000	33,000	3,000
Vietnam	34,000	S	23,000	8,000
Colombia	29,000	1,000	24,000	3,000
United Kingdom	28,000	2,000	9,000	17,000
Cuba	28,000	D	26,000	1,000
Lebanon	25,000	D	S	D
Ethiopia	24,000	D	17,000	D
Japan	22,000	1,000	13,000	7,000
Haiti	22,000	D	S	S
Taiwan	19,000	4,000	10,000	6,000
Egypt	18,000	D	8,000	9,000
France	18,000	D	17,000	*
Dominican Republic	17,000	D	S	S
Thailand	17,000	D	10,000	5,000
Pakistan	17,000	S	11,000	S
Brazil	17,000	S	11,000	S
All other countries or economies	394,000	24,000	282,000	87,000
Non-S&E fields	4,053,000	334,000	301,000	3,418,000
India	361,000	42,000	45,000	273,000
Mexico	352,000	17,000	18,000	317,000
Philippines	222,000	7,000	29,000	186,000
China	206,000	29,000	19,000	158,000
Canada	203,000	13,000	5,000	184,000
South Korea	189,000	16,000	11,000	162,000
Germany	146,000	7,000	8,000	131,000
Colombia	106,000	S	2,000	93,000
Japan	97,000	S	3,000	89,000
Vietnam	96,000	9,000	5,000	83,000
Taiwan	86,000	6,000	S	57,000
United Kingdom	82,000	7,000	8,000	66,000
Jamaica	77,000	S	1,000	72,000
Nigeria	75,000	11,000	S	51,000
Cuba	69,000	5,000	D	64,000
Pakistan	69,000	S	S	56,000
Peru	66,000	S	S	63,000
Brazil	63,000	11,000	S	50,000
Dominican Republic	60,000	D	D	57,000
Venezuela	59,000	S	D	50,000

TABLE 5-5

Employed foreign-born college graduates, by broad degree field, place of birth, and broad occupation: 2023

(Number)

Degree field and place of birth	Total	S&E occupations	S&E-related occupations	Non-S&E occupations
France	56,000	2,000	*	54,000
Hong Kong	55,000	S	S	44,000
Australia	45,000	S	D	40,000
Bangladesh	42,000	10,000	D	S
Russia	41,000	5,000	D	33,000
All other countries or economies	1,132,000	90,000	89,000	954,000

* = 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 or economies 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 permanent residents or hold a temporary visa.

Source(s):
National Center for Science and Engineering Statistics, National Survey of College Graduates, 2023.

TABLE 6-1

Employed scientists and engineers, by level of highest degree and minor field of highest degree: 2003–23

(Number)

Level and field of highest degree	2003	2010	2013	2015	2017	2019	2021	2023
All degrees	4,588,000	5,374,000	5,766,000	6,407,000	6,769,000	7,466,000	7,894,000	8,711,000
S&E fields	3,319,000	3,971,000	4,350,000	4,854,000	5,085,000	5,709,000	6,059,000	6,518,000
Biological, agricultural, and environmental life sciences	415,000	539,000	587,000	624,000	633,000	705,000	768,000	755,000
Agricultural and food sciences	47,000	71,000	61,000	60,000	57,000	59,000	73,000	53,000
Biological sciences	316,000	410,000	464,000	495,000	522,000	565,000	610,000	625,000
Environmental life sciences	53,000	58,000	61,000	69,000	53,000	80,000	85,000	77,000
Computer and mathematical sciences	751,000	1,023,000	1,195,000	1,350,000	1,437,000	1,670,000	1,795,000	2,110,000
Computer and information sciences	575,000	831,000	997,000	1,153,000	1,257,000	1,427,000	1,556,000	1,811,000
Mathematics and statistics	176,000	192,000	197,000	197,000	180,000	243,000	239,000	299,000
Physical and related sciences	330,000	354,000	359,000	386,000	366,000	422,000	461,000	476,000
Chemistry, except biochemistry	147,000	154,000	158,000	173,000	156,000	179,000	189,000	182,000
Earth, atmospheric, and ocean sciences	86,000	92,000	96,000	100,000	93,000	108,000	120,000	142,000
Physics and astronomy	87,000	100,000	100,000	109,000	109,000	131,000	146,000	147,000
Other physical sciences	9,000	8,000	5,000	4,000	8,000	4,000	6,000	5,000
Social and related sciences	462,000	556,000	599,000	660,000	679,000	754,000	758,000	738,000
Economics	67,000	80,000	78,000	98,000	115,000	130,000	123,000	154,000
Political and related sciences	61,000	89,000	82,000	89,000	107,000	107,000	115,000	133,000
Psychology	237,000	260,000	296,000	309,000	306,000	341,000	337,000	246,000
Sociology and anthropology	61,000	66,000	78,000	88,000	95,000	102,000	112,000	116,000
Other social sciences	36,000	61,000	65,000	75,000	58,000	74,000	71,000	89,000
Engineering	1,362,000	1,498,000	1,611,000	1,834,000	1,970,000	2,159,000	2,277,000	2,438,000
Aerospace, aeronautical, and astronautical engineering	42,000	44,000	46,000	62,000	58,000	81,000	84,000	123,000
Chemical engineering	89,000	95,000	101,000	114,000	129,000	138,000	148,000	147,000
Civil and architectural engineering	225,000	223,000	229,000	235,000	250,000	284,000	296,000	302,000
Electrical and computer engineering	497,000	580,000	621,000	739,000	820,000	849,000	885,000	896,000
Industrial engineering	57,000	62,000	73,000	80,000	83,000	86,000	82,000	104,000
Mechanical engineering	278,000	308,000	338,000	396,000	387,000	452,000	500,000	553,000
Other engineering	174,000	186,000	202,000	209,000	243,000	269,000	283,000	314,000
S&E-related fields	274,000	329,000	326,000	367,000	382,000	428,000	439,000	534,000
Health	93,000	119,000	117,000	133,000	146,000	164,000	190,000	234,000
Science and mathematics teacher education	23,000	23,000	30,000	23,000	29,000	29,000	30,000	33,000
Technology and technical fields	130,000	153,000	135,000	168,000	173,000	186,000	170,000	216,000
Other S&E-related fields	28,000	34,000	43,000	44,000	35,000	49,000	48,000	52,000
Non-S&E fields	995,000	1,074,000	1,090,000	1,186,000	1,301,000	1,330,000	1,396,000	1,660,000
Management and administration fields	511,000	567,000	514,000	559,000	573,000	666,000	647,000	740,000
Education, except science and math teacher education	92,000	57,000	54,000	62,000	98,000	76,000	94,000	77,000

TABLE 6-1

Employed scientists and engineers, by level of highest degree and minor field of highest degree: 2003–23

(Number)

Level and field of highest degree	2003	2010	2013	2015	2017	2019	2021	2023
Social service and related fields	47,000	57,000	70,000	66,000	58,000	77,000	77,000	81,000
Sales and marketing fields	52,000	42,000	33,000	43,000	103,000	53,000	61,000	81,000
Art and humanities fields	146,000	183,000	192,000	229,000	226,000	224,000	273,000	293,000
Other non-S&E fields	147,000	168,000	227,000	228,000	242,000	233,000	244,000	388,000
Bachelor's	2,529,000	2,980,000	3,288,000	3,518,000	3,846,000	4,176,000	4,438,000	5,069,000
S&E fields	1,821,000	2,204,000	2,482,000	2,707,000	2,918,000	3,251,000	3,499,000	3,881,000
Biological, agricultural, and environmental life sciences	184,000	237,000	291,000	270,000	321,000	344,000	371,000	367,000
Agricultural and food sciences	23,000	35,000	28,000	22,000	24,000	31,000	39,000	24,000
Biological sciences	125,000	170,000	223,000	204,000	265,000	266,000	281,000	300,000
Environmental life sciences	36,000	32,000	39,000	44,000	31,000	47,000	51,000	42,000
Computer and mathematical sciences	454,000	640,000	757,000	808,000	879,000	1,032,000	1,137,000	1,357,000
Computer and information sciences	366,000	552,000	661,000	721,000	807,000	915,000	1,024,000	1,202,000
Mathematics and statistics	88,000	88,000	95,000	87,000	72,000	117,000	113,000	155,000
Physical and related sciences	144,000	148,000	150,000	159,000	147,000	194,000	199,000	210,000
Chemistry, except biochemistry	68,000	73,000	73,000	86,000	73,000	91,000	93,000	87,000
Earth, atmospheric, and ocean sciences	42,000	38,000	40,000	39,000	39,000	59,000	54,000	69,000
Physics and astronomy	29,000	33,000	33,000	31,000	29,000	40,000	49,000	53,000
Other physical sciences	5,000	4,000	4,000	S	7,000	S	S	2,000
Social and related sciences	159,000	207,000	226,000	272,000	305,000	327,000	321,000	367,000
Economics	34,000	37,000	38,000	57,000	70,000	79,000	67,000	95,000
Political and related sciences	35,000	37,000	39,000	33,000	52,000	48,000	52,000	59,000
Psychology	45,000	73,000	77,000	88,000	101,000	116,000	108,000	104,000
Sociology and anthropology	26,000	26,000	38,000	42,000	50,000	45,000	54,000	63,000
Other social sciences	19,000	34,000	35,000	51,000	32,000	39,000	39,000	46,000
Engineering	880,000	973,000	1,058,000	1,197,000	1,265,000	1,355,000	1,470,000	1,579,000
Aerospace, aeronautical, and astronautical engineering	25,000	22,000	29,000	40,000	32,000	47,000	47,000	83,000
Chemical engineering	59,000	66,000	71,000	83,000	95,000	98,000	112,000	110,000
Civil and architectural engineering	157,000	163,000	154,000	150,000	169,000	182,000	194,000	197,000
Electrical and computer engineering	312,000	364,000	402,000	476,000	516,000	523,000	569,000	575,000
Industrial engineering	37,000	38,000	54,000	53,000	51,000	54,000	46,000	62,000
Mechanical engineering	205,000	229,000	247,000	297,000	284,000	325,000	372,000	412,000
Other engineering	84,000	91,000	99,000	98,000	118,000	125,000	130,000	139,000
S&E-related fields	151,000	180,000	170,000	183,000	189,000	193,000	203,000	250,000
Health	28,000	44,000	37,000	43,000	43,000	36,000	57,000	69,000
Science and mathematics teacher education	7,000	10,000	8,000	5,000	5,000	4,000	S	9,000
Technology and technical fields	102,000	115,000	109,000	117,000	125,000	132,000	117,000	150,000

TABLE 6-1

Employed scientists and engineers, by level of highest degree and minor field of highest degree: 2003–23

(Number)

Level and field of highest degree	2003	2010	2013	2015	2017	2019	2021	2023
Other S&E-related fields	13,000	12,000	16,000	18,000	16,000	21,000	18,000	22,000
Non-S&E fields	558,000	596,000	637,000	628,000	740,000	732,000	736,000	939,000
Management and administration fields	263,000	309,000	264,000	263,000	274,000	344,000	292,000	349,000
Education, except science and math teacher education	37,000	22,000	19,000	18,000	38,000	28,000	32,000	24,000
Social service and related fields	17,000	14,000	22,000	15,000	17,000	22,000	26,000	45,000
Sales and marketing fields	33,000	31,000	21,000	24,000	83,000	37,000	44,000	61,000
Art and humanities fields	123,000	149,000	164,000	191,000	197,000	189,000	231,000	247,000
Other non-S&E fields	85,000	71,000	146,000	117,000	130,000	112,000	112,000	212,000
Master's	1,406,000	1,644,000	1,689,000	2,076,000	2,069,000	2,286,000	2,411,000	2,599,000
S&E fields	929,000	1,126,000	1,192,000	1,461,000	1,442,000	1,589,000	1,671,000	1,775,000
Biological, agricultural, and environmental life sciences	82,000	123,000	119,000	175,000	123,000	132,000	157,000	153,000
Agricultural and food sciences	9,000	25,000	23,000	29,000	21,000	13,000	20,000	16,000
Biological sciences	57,000	78,000	79,000	125,000	83,000	90,000	107,000	109,000
Environmental life sciences	15,000	20,000	17,000	21,000	18,000	28,000	29,000	28,000
Computer and mathematical sciences	246,000	321,000	375,000	474,000	482,000	543,000	560,000	642,000
Computer and information sciences	194,000	255,000	308,000	401,000	411,000	463,000	481,000	546,000
Mathematics and statistics	52,000	65,000	67,000	73,000	70,000	81,000	79,000	96,000
Physical and related sciences	75,000	78,000	81,000	91,000	98,000	88,000	106,000	115,000
Chemistry, except biochemistry	26,000	24,000	26,000	25,000	32,000	26,000	28,000	34,000
Earth, atmospheric, and ocean sciences	29,000	32,000	34,000	41,000	38,000	28,000	39,000	44,000
Physics and astronomy	19,000	19,000	20,000	24,000	27,000	33,000	37,000	36,000
Other physical sciences	1,000	3,000	1,000	1,000	1,000	1,000	S	1,000
Social and related sciences	146,000	179,000	182,000	203,000	176,000	194,000	212,000	206,000
Economics	17,000	17,000	19,000	20,000	20,000	26,000	30,000	37,000
Political and related sciences	17,000	37,000	27,000	39,000	37,000	34,000	46,000	54,000
Psychology	84,000	82,000	99,000	102,000	87,000	92,000	96,000	65,000
Sociology and anthropology	18,000	20,000	16,000	24,000	18,000	19,000	22,000	24,000
Other social sciences	10,000	23,000	21,000	16,000	14,000	23,000	18,000	25,000
Engineering	381,000	425,000	434,000	518,000	563,000	632,000	635,000	659,000
Aerospace, aeronautical, and astronautical engineering	12,000	16,000	13,000	17,000	22,000	27,000	29,000	31,000
Chemical engineering	18,000	16,000	18,000	18,000	21,000	17,000	19,000	20,000
Civil and architectural engineering	58,000	53,000	63,000	76,000	69,000	85,000	85,000	83,000
Electrical and computer engineering	152,000	183,000	179,000	227,000	257,000	273,000	262,000	260,000
Industrial engineering	18,000	22,000	17,000	21,000	28,000	26,000	31,000	34,000
Mechanical engineering	60,000	67,000	70,000	79,000	79,000	104,000	107,000	110,000
Other engineering	65,000	69,000	75,000	81,000	86,000	101,000	102,000	122,000

TABLE 6-1

Employed scientists and engineers, by level of highest degree and minor field of highest degree: 2003–23

(Number)

Level and field of highest degree	2003	2010	2013	2015	2017	2019	2021	2023
S&E-related fields	81,000	99,000	102,000	125,000	131,000	172,000	156,000	208,000
Health	28,000	33,000	35,000	42,000	52,000	76,000	65,000	103,000
Science and mathematics teacher education	13,000	10,000	18,000	14,000	19,000	21,000	14,000	20,000
Technology and technical fields	26,000	34,000	24,000	44,000	43,000	49,000	48,000	61,000
Other S&E-related fields	14,000	21,000	25,000	25,000	17,000	27,000	28,000	25,000
Non-S&E fields	395,000	419,000	396,000	490,000	496,000	524,000	584,000	616,000
Management and administration fields	245,000	255,000	246,000	290,000	295,000	314,000	349,000	387,000
Education, except science and math teacher education	43,000	27,000	29,000	39,000	54,000	40,000	53,000	39,000
Social service and related fields	27,000	36,000	34,000	37,000	33,000	40,000	39,000	23,000
Sales and marketing fields	19,000	11,000	12,000	19,000	20,000	16,000	17,000	20,000
Art and humanities fields	20,000	27,000	24,000	32,000	25,000	30,000	38,000	38,000
Other non-S&E fields	41,000	64,000	52,000	73,000	69,000	84,000	89,000	108,000
Doctorate	605,000	692,000	724,000	751,000	786,000	938,000	962,000	973,000
S&E fields	556,000	624,000	650,000	664,000	702,000	841,000	861,000	849,000
Biological, agricultural, and environmental life sciences	149,000	179,000	177,000	178,000	189,000	229,000	240,000	235,000
Agricultural and food sciences	14,000	11,000	10,000	9,000	12,000	15,000	14,000	12,000
Biological sciences	133,000	162,000	162,000	166,000	173,000	209,000	221,000	215,000
Environmental life sciences	2,000	6,000	5,000	3,000	4,000	5,000	5,000	7,000
Computer and mathematical sciences	51,000	63,000	63,000	68,000	76,000	94,000	98,000	111,000
Computer and information sciences	15,000	24,000	28,000	30,000	39,000	50,000	51,000	64,000
Mathematics and statistics	36,000	38,000	35,000	38,000	37,000	45,000	47,000	47,000
Physical and related sciences	111,000	128,000	128,000	136,000	121,000	140,000	155,000	151,000
Chemistry, except biochemistry	53,000	57,000	59,000	61,000	51,000	62,000	68,000	61,000
Earth, atmospheric, and ocean sciences	16,000	22,000	21,000	20,000	16,000	20,000	27,000	29,000
Physics and astronomy	40,000	48,000	47,000	54,000	52,000	58,000	59,000	59,000
Other physical sciences	2,000	S	S	D	S	*	1,000	2,000
Social and related sciences	144,000	154,000	164,000	162,000	174,000	207,000	196,000	153,000
Economics	17,000	26,000	22,000	21,000	25,000	25,000	26,000	23,000
Political and related sciences	10,000	15,000	16,000	16,000	17,000	25,000	16,000	19,000
Psychology	94,000	90,000	93,000	96,000	95,000	106,000	105,000	64,000
Sociology and anthropology	17,000	20,000	24,000	21,000	26,000	39,000	36,000	29,000
Other social sciences	6,000	3,000	9,000	8,000	11,000	12,000	14,000	17,000
Engineering	101,000	100,000	118,000	119,000	142,000	171,000	171,000	200,000
Aerospace, aeronautical, and astronautical engineering	5,000	5,000	4,000	5,000	4,000	8,000	7,000	9,000
Chemical engineering	12,000	13,000	12,000	13,000	13,000	23,000	17,000	17,000
Civil and architectural engineering	10,000	8,000	11,000	9,000	13,000	16,000	17,000	22,000

TABLE 6-1

Employed scientists and engineers, by level of highest degree and minor field of highest degree: 2003–23

(Number)

Level and field of highest degree	2003	2010	2013	2015	2017	2019	2021	2023
Electrical and computer engineering	33,000	33,000	40,000	36,000	46,000	53,000	54,000	60,000
Industrial engineering	2,000	3,000	2,000	6,000	4,000	6,000	5,000	8,000
Mechanical engineering	14,000	13,000	20,000	20,000	24,000	23,000	21,000	32,000
Other engineering	25,000	26,000	29,000	29,000	39,000	43,000	51,000	53,000
S&E-related fields	22,000	31,000	32,000	42,000	42,000	44,000	51,000	54,000
Health	17,000	23,000	24,000	31,000	31,000	33,000	40,000	40,000
Science and mathematics teacher education	3,000	3,000	4,000	3,000	5,000	5,000	5,000	4,000
Technology and technical fields	2,000	4,000	3,000	7,000	5,000	5,000	5,000	5,000
Other S&E-related fields	1,000	1,000	2,000	S	2,000	1,000	2,000	4,000
Non-S&E fields	27,000	36,000	42,000	45,000	41,000	53,000	50,000	70,000
Management and administration fields	3,000	3,000	3,000	S	4,000	9,000	6,000	4,000
Education, except science and math teacher education	12,000	8,000	7,000	6,000	5,000	8,000	9,000	13,000
Social service and related fields	3,000	8,000	14,000	13,000	9,000	15,000	13,000	13,000
Sales and marketing fields	D	D	D	D	D	D	D	D
Art and humanities fields	3,000	S	4,000	5,000	4,000	5,000	5,000	8,000
Other non-S&E fields	6,000	10,000	14,000	15,000	19,000	16,000	18,000	32,000
Professional	49,000	58,000	64,000	63,000	67,000	67,000	82,000	70,000
S&E fields	13,000	16,000	27,000	22,000	24,000	28,000	28,000	13,000
S&E-related fields	20,000	20,000	22,000	16,000	20,000	18,000	29,000	22,000
Non-S&E fields	15,000	22,000	15,000	24,000	24,000	21,000	25,000	35,000

* = 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.

Source(s):
National Center for Science and Engineering Statistics, National Survey of College Graduates, 2023.

TABLE 6-2

Employed college graduates, by sex, ethnicity, race, and major occupation: 2003–23

(Number)

Sex, ethnicity, race, and occupation	2003	2010	2013	2015	2017	2019	2021	2023[a]
All sexes	32,574,000	40,623,000	43,839,000	45,941,000	48,223,000	50,524,000	51,764,000	56,061,000
S&E occupations	4,588,000	5,374,000	5,766,000	6,407,000	6,769,000	7,466,000	7,894,000	8,711,000
Biological, agricultural, and other life scientists	421,000	602,000	638,000	631,000	610,000	698,000	794,000	813,000
Computer and mathematical scientists	1,930,000	2,396,000	2,653,000	3,156,000	3,419,000	3,774,000	4,031,000	4,573,000
Physical and related scientists	298,000	327,000	324,000	331,000	366,000	409,000	408,000	430,000
Social and related scientists	477,000	518,000	596,000	570,000	646,000	663,000	712,000	631,000
Engineers	1,463,000	1,531,000	1,554,000	1,719,000	1,728,000	1,921,000	1,949,000	2,263,000
S&E-related occupations	5,155,000	6,966,000	7,508,000	7,867,000	8,271,000	8,893,000	9,522,000	11,253,000
Non-S&E occupations	22,831,000	28,282,000	30,566,000	31,667,000	33,183,000	34,165,000	34,349,000	36,097,000
Hispanic or Latino	1,710,000	2,898,000	3,394,000	3,786,000	4,280,000	4,803,000	5,307,000	6,016,000
S&E occupations	199,000	274,000	357,000	387,000	505,000	564,000	692,000	851,000
Biological, agricultural, and other life scientists	19,000	28,000	42,000	37,000	38,000	64,000	72,000	78,000
Computer and mathematical scientists	72,000	106,000	146,000	159,000	200,000	238,000	328,000	425,000
Physical and related scientists	12,000	13,000	17,000	17,000	29,000	27,000	32,000	38,000
Social and related scientists	21,000	30,000	48,000	55,000	95,000	77,000	81,000	84,000
Engineers	75,000	98,000	103,000	120,000	143,000	159,000	178,000	226,000
S&E-related occupations	265,000	434,000	572,000	629,000	702,000	821,000	843,000	1,142,000
Non-S&E occupations	1,245,000	2,190,000	2,465,000	2,769,000	3,073,000	3,418,000	3,772,000	4,023,000
Not Hispanic or Latino								
American Indian or Alaska Native	131,000	118,000	130,000	117,000	121,000	182,000	126,000	112,000
S&E occupations	14,000	11,000	10,000	10,000	14,000	S	10,000	12,000
Biological, agricultural, and other life scientists	3,000	1,000	1,000	2,000	S	1,000	2,000	*
Computer and mathematical scientists	3,000	2,000	2,000	2,000	4,000	S	5,000	4,000
Physical and related scientists	1,000	1,000	*	1,000	S	1,000	1,000	D
Social and related scientists	2,000	S	3,000	2,000	S	S	1,000	S
Engineers	4,000	6,000	3,000	4,000	5,000	5,000	2,000	4,000
S&E-related occupations	20,000	21,000	32,000	27,000	28,000	29,000	22,000	13,000
Non-S&E occupations	98,000	85,000	87,000	80,000	80,000	132,000	94,000	86,000
Asian	2,222,000	3,211,000	3,671,000	4,001,000	4,498,000	5,062,000	5,475,000	6,134,000
S&E occupations	624,000	968,000	996,000	1,321,000	1,338,000	1,543,000	1,665,000	1,771,000
Biological, agricultural, and other life scientists	60,000	112,000	117,000	114,000	126,000	157,000	167,000	148,000
Computer and mathematical scientists	331,000	536,000	572,000	813,000	840,000	955,000	1,064,000	1,107,000
Physical and related scientists	36,000	41,000	49,000	64,000	51,000	55,000	61,000	53,000
Social and related scientists	24,000	29,000	41,000	51,000	38,000	44,000	57,000	75,000
Engineers	173,000	251,000	217,000	279,000	283,000	331,000	316,000	388,000
S&E-related occupations	478,000	796,000	910,000	871,000	1,042,000	1,151,000	1,264,000	1,664,000

TABLE 6-2

Employed college graduates, by sex, ethnicity, race, and major occupation: 2003–23

(Number)

Sex, ethnicity, race, and occupation	2003	2010	2013	2015	2017	2019	2021	2023[a]
Non-S&E occupations	1,120,000	1,447,000	1,766,000	1,809,000	2,118,000	2,368,000	2,546,000	2,699,000
Black or African American	2,054,000	2,747,000	3,141,000	3,434,000	3,805,000	3,895,000	4,109,000	4,523,000
S&E occupations	200,000	251,000	275,000	308,000	382,000	379,000	399,000	487,000
Biological, agricultural, and other life scientists	12,000	20,000	19,000	16,000	20,000	23,000	32,000	30,000
Computer and mathematical scientists	102,000	141,000	162,000	162,000	242,000	214,000	242,000	294,000
Physical and related scientists	8,000	11,000	12,000	13,000	11,000	18,000	16,000	15,000
Social and related scientists	27,000	24,000	25,000	42,000	48,000	47,000	44,000	58,000
Engineers	50,000	54,000	57,000	74,000	62,000	77,000	65,000	90,000
S&E-related occupations	285,000	401,000	462,000	515,000	610,000	613,000	756,000	889,000
Non-S&E occupations	1,569,000	2,095,000	2,404,000	2,612,000	2,813,000	2,903,000	2,955,000	3,147,000
Native Hawaiian or Other Pacific Islander	90,000	119,000	133,000	182,000	137,000	129,000	136,000	42,000
S&E occupations	13,000	12,000	12,000	12,000	23,000	17,000	16,000	7,000
Biological, agricultural, and other life scientists	1,000	S	2,000	1,000	1,000	D	1,000	D
Computer and mathematical scientists	7,000	2,000	5,000	6,000	12,000	6,000	6,000	2,000
Physical and related scientists	D	*	*	D	S	S	S	D
Social and related scientists	D	S	1,000	S	S	2,000	S	D
Engineers	5,000	5,000	4,000	4,000	8,000	7,000	7,000	S
S&E-related occupations	21,000	28,000	24,000	21,000	16,000	30,000	36,000	10,000
Non-S&E occupations	56,000	79,000	97,000	149,000	97,000	82,000	83,000	24,000
White	25,973,000	30,946,000	32,698,000	33,495,000	34,435,000	35,269,000	35,373,000	37,670,000
S&E occupations	3,479,000	3,789,000	4,033,000	4,267,000	4,397,000	4,784,000	4,943,000	5,353,000
Biological, agricultural, and other life scientists	321,000	428,000	449,000	449,000	415,000	439,000	501,000	541,000
Computer and mathematical scientists	1,390,000	1,575,000	1,726,000	1,965,000	2,070,000	2,259,000	2,296,000	2,620,000
Physical and related scientists	237,000	257,000	242,000	233,000	265,000	300,000	288,000	311,000
Social and related scientists	394,000	427,000	467,000	407,000	451,000	480,000	513,000	392,000
Engineers	1,138,000	1,101,000	1,149,000	1,213,000	1,196,000	1,305,000	1,345,000	1,490,000
S&E-related occupations	4,022,000	5,208,000	5,380,000	5,676,000	5,726,000	6,053,000	6,412,000	7,159,000
Non-S&E occupations	18,472,000	21,948,000	23,285,000	23,552,000	24,313,000	24,432,000	24,018,000	25,158,000
More than one race	394,000	585,000	673,000	926,000	946,000	1,184,000	1,238,000	1,564,000
S&E occupations	60,000	69,000	84,000	103,000	109,000	158,000	169,000	230,000
Biological, agricultural, and other life scientists	6,000	8,000	9,000	12,000	9,000	14,000	19,000	16,000
Computer and mathematical scientists	24,000	34,000	40,000	50,000	52,000	88,000	89,000	122,000
Physical and related scientists	4,000	4,000	3,000	3,000	7,000	7,000	9,000	10,000
Social and related scientists	8,000	7,000	11,000	11,000	10,000	12,000	16,000	18,000
Engineers	18,000	17,000	20,000	27,000	31,000	37,000	36,000	63,000
S&E-related occupations	64,000	78,000	128,000	128,000	147,000	198,000	189,000	376,000

TABLE 6-2

Employed college graduates, by sex, ethnicity, race, and major occupation: 2003–23

(Number)

Sex, ethnicity, race, and occupation	2003	2010	2013	2015	2017	2019	2021	2023[a]
Non-S&E occupations	270,000	437,000	462,000	695,000	689,000	829,000	880,000	959,000
Female	15,111,000	19,978,000	22,052,000	23,218,000	24,900,000	26,341,000	26,493,000	29,603,000
S&E occupations	1,203,000	1,486,000	1,681,000	1,818,000	1,966,000	2,193,000	2,300,000	2,586,000
Biological, agricultural, and other life scientists	164,000	292,000	311,000	302,000	292,000	337,000	367,000	405,000
Computer and mathematical scientists	552,000	602,000	673,000	833,000	919,000	975,000	1,053,000	1,214,000
Physical and related scientists	83,000	98,000	100,000	92,000	107,000	142,000	135,000	160,000
Social and related scientists	251,000	295,000	363,000	341,000	379,000	428,000	433,000	398,000
Engineers	154,000	200,000	235,000	250,000	269,000	310,000	312,000	409,000
S&E-related occupations	2,814,000	3,877,000	4,223,000	4,558,000	4,764,000	5,109,000	5,494,000	6,669,000
Non-S&E occupations	11,094,000	14,615,000	16,147,000	16,842,000	18,170,000	19,040,000	18,699,000	20,349,000
Hispanic or Latino	862,000	1,533,000	1,827,000	2,045,000	2,391,000	2,668,000	2,907,000	3,244,000
S&E occupations	57,000	84,000	120,000	117,000	154,000	182,000	206,000	251,000
Biological, agricultural, and other life scientists	10,000	15,000	25,000	18,000	24,000	33,000	36,000	32,000
Computer and mathematical scientists	18,000	33,000	39,000	39,000	49,000	49,000	75,000	100,000
Physical and related scientists	4,000	6,000	7,000	6,000	10,000	11,000	11,000	17,000
Social and related scientists	13,000	17,000	31,000	37,000	46,000	58,000	52,000	60,000
Engineers	12,000	13,000	18,000	17,000	26,000	31,000	33,000	42,000
S&E-related occupations	135,000	254,000	322,000	372,000	427,000	492,000	537,000	683,000
Non-S&E occupations	670,000	1,195,000	1,385,000	1,555,000	1,809,000	1,994,000	2,164,000	2,311,000
Not Hispanic or Latino								
American Indian or Alaska Native	71,000	50,000	65,000	63,000	68,000	121,000	71,000	48,000
S&E occupations	4,000	3,000	3,000	1,000	5,000	4,000	3,000	7,000
Biological, agricultural, and other life scientists	D	D	S	D	D	*	S	D
Computer and mathematical scientists	2,000	*	1,000	*	S	S	D	D
Physical and related scientists	1,000	*	*	D	D	D	D	D
Social and related scientists	D	*	S	S	1,000	*	*	S
Engineers	1,000	S	*	D	D	S	D	2,000
S&E-related occupations	12,000	13,000	22,000	18,000	16,000	15,000	17,000	7,000
Non-S&E occupations	55,000	34,000	40,000	44,000	47,000	101,000	51,000	34,000
Asian	999,000	1,359,000	1,687,000	1,882,000	2,142,000	2,457,000	2,682,000	3,082,000
S&E occupations	166,000	260,000	293,000	417,000	409,000	488,000	511,000	577,000
Biological, agricultural, and other life scientists	23,000	62,000	63,000	57,000	55,000	72,000	79,000	81,000
Computer and mathematical scientists	93,000	124,000	155,000	272,000	257,000	307,000	315,000	346,000
Physical and related scientists	13,000	13,000	16,000	16,000	16,000	15,000	19,000	16,000
Social and related scientists	11,000	15,000	24,000	32,000	26,000	30,000	32,000	53,000
Engineers	27,000	46,000	36,000	40,000	54,000	64,000	66,000	82,000

TABLE 6-2

Employed college graduates, by sex, ethnicity, race, and major occupation: 2003–23

(Number)

Sex, ethnicity, race, and occupation	2003	2010	2013	2015	2017	2019	2021	2023[a]
S&E-related occupations	260,000	382,000	437,000	467,000	537,000	625,000	656,000	885,000
Non-S&E occupations	572,000	718,000	957,000	998,000	1,196,000	1,343,000	1,516,000	1,620,000
Black or African American	1,207,000	1,616,000	1,865,000	2,077,000	2,292,000	2,344,000	2,432,000	2,719,000
S&E occupations	80,000	108,000	110,000	104,000	168,000	135,000	144,000	175,000
Biological, agricultural, and other life scientists	6,000	9,000	11,000	10,000	9,000	12,000	19,000	16,000
Computer and mathematical scientists	45,000	71,000	65,000	50,000	109,000	70,000	83,000	96,000
Physical and related scientists	2,000	4,000	5,000	4,000	5,000	7,000	4,000	7,000
Social and related scientists	17,000	14,000	18,000	24,000	34,000	33,000	28,000	39,000
Engineers	10,000	9,000	11,000	16,000	11,000	12,000	10,000	16,000
S&E-related occupations	199,000	257,000	291,000	301,000	362,000	355,000	488,000	612,000
Non-S&E occupations	928,000	1,251,000	1,465,000	1,671,000	1,762,000	1,854,000	1,801,000	1,932,000
Native Hawaiian or Other Pacific Islander	38,000	52,000	57,000	75,000	67,000	51,000	65,000	20,000
S&E occupations	3,000	4,000	2,000	2,000	5,000	3,000	5,000	S
Biological, agricultural, and other life scientists	D	S	*	1,000	S	D	D	D
Computer and mathematical scientists	2,000	*	D	S	S	D	S	D
Physical and related scientists	D	D	D	D	*	D	D	D
Social and related scientists	D	S	*	S	S	S	S	D
Engineers	D	D	*	D	D	D	D	D
S&E-related occupations	12,000	11,000	12,000	14,000	9,000	9,000	S	7,000
Non-S&E occupations	23,000	37,000	43,000	59,000	52,000	40,000	42,000	11,000
White	11,734,000	15,036,000	16,169,000	16,582,000	17,391,000	18,005,000	17,710,000	19,625,000
S&E occupations	874,000	1,009,000	1,130,000	1,144,000	1,188,000	1,322,000	1,386,000	1,513,000
Biological, agricultural, and other life scientists	122,000	200,000	207,000	209,000	196,000	212,000	223,000	264,000
Computer and mathematical scientists	386,000	365,000	407,000	461,000	486,000	519,000	564,000	645,000
Physical and related scientists	61,000	72,000	71,000	64,000	72,000	105,000	98,000	116,000
Social and related scientists	204,000	244,000	279,000	240,000	266,000	296,000	307,000	233,000
Engineers	101,000	127,000	165,000	171,000	168,000	190,000	194,000	255,000
S&E-related occupations	2,158,000	2,911,000	3,063,000	3,313,000	3,314,000	3,491,000	3,649,000	4,242,000
Non-S&E occupations	8,702,000	11,115,000	11,976,000	12,125,000	12,889,000	13,192,000	12,676,000	13,870,000
More than one race	201,000	333,000	381,000	494,000	550,000	695,000	626,000	864,000
S&E occupations	19,000	18,000	23,000	31,000	37,000	58,000	45,000	63,000
Biological, agricultural, and other life scientists	3,000	3,000	3,000	7,000	4,000	6,000	9,000	11,000
Computer and mathematical scientists	7,000	7,000	5,000	9,000	15,000	28,000	14,000	26,000
Physical and related scientists	S	S	1,000	1,000	4,000	4,000	3,000	4,000
Social and related scientists	4,000	3,000	9,000	8,000	6,000	9,000	12,000	11,000
Engineers	3,000	3,000	4,000	6,000	8,000	10,000	8,000	11,000

TABLE 6-2

Employed college graduates, by sex, ethnicity, race, and major occupation: 2003–23

(Number)

Sex, ethnicity, race, and occupation	2003	2010	2013	2015	2017	2019	2021	2023[a]
S&E-related occupations	38,000	50,000	76,000	73,000	99,000	121,000	129,000	233,000
Non-S&E occupations	144,000	265,000	282,000	390,000	414,000	516,000	452,000	569,000
Male	17,463,000	20,644,000	21,787,000	22,723,000	23,323,000	24,183,000	25,271,000	26,458,000
S&E occupations	3,385,000	3,888,000	4,084,000	4,590,000	4,803,000	5,274,000	5,594,000	6,126,000
Biological, agricultural, and other life scientists	257,000	310,000	328,000	329,000	319,000	361,000	427,000	408,000
Computer and mathematical scientists	1,378,000	1,795,000	1,980,000	2,323,000	2,500,000	2,799,000	2,979,000	3,360,000
Physical and related scientists	215,000	229,000	224,000	239,000	259,000	267,000	273,000	270,000
Social and related scientists	226,000	223,000	234,000	229,000	266,000	235,000	279,000	233,000
Engineers	1,309,000	1,331,000	1,319,000	1,469,000	1,459,000	1,612,000	1,636,000	1,855,000
S&E-related occupations	2,341,000	3,089,000	3,285,000	3,309,000	3,507,000	3,785,000	4,028,000	4,584,000
Non-S&E occupations	11,736,000	13,667,000	14,418,000	14,824,000	15,013,000	15,125,000	15,649,000	15,748,000
Hispanic or Latino	847,000	1,365,000	1,566,000	1,741,000	1,889,000	2,135,000	2,401,000	2,771,000
S&E occupations	142,000	191,000	237,000	270,000	351,000	382,000	485,000	600,000
Biological, agricultural, and other life scientists	9,000	13,000	17,000	18,000	14,000	30,000	37,000	45,000
Computer and mathematical scientists	54,000	73,000	107,000	120,000	151,000	189,000	254,000	325,000
Physical and related scientists	8,000	7,000	11,000	10,000	19,000	17,000	21,000	22,000
Social and related scientists	9,000	13,000	16,000	19,000	S	19,000	28,000	24,000
Engineers	63,000	85,000	86,000	103,000	118,000	128,000	145,000	184,000
S&E-related occupations	130,000	179,000	249,000	257,000	275,000	328,000	307,000	459,000
Non-S&E occupations	576,000	995,000	1,080,000	1,214,000	1,263,000	1,424,000	1,608,000	1,712,000
Not Hispanic or Latino								
American Indian or Alaska Native	61,000	68,000	65,000	55,000	53,000	62,000	55,000	64,000
S&E occupations	10,000	7,000	7,000	9,000	9,000	S	7,000	6,000
Biological, agricultural, and other life scientists	3,000	*	1,000	2,000	*	S	D	*
Computer and mathematical scientists	2,000	2,000	1,000	1,000	S	S	S	S
Physical and related scientists	D	S	*	*	S	1,000	1,000	D
Social and related scientists	S	D	2,000	S	S	S	*	D
Engineers	3,000	4,000	3,000	4,000	3,000	3,000	2,000	S
S&E-related occupations	8,000	9,000	10,000	9,000	12,000	14,000	5,000	6,000
Non-S&E occupations	43,000	52,000	48,000	37,000	32,000	31,000	43,000	52,000
Asian	1,223,000	1,852,000	1,984,000	2,118,000	2,357,000	2,605,000	2,793,000	3,051,000
S&E occupations	457,000	708,000	702,000	904,000	929,000	1,055,000	1,154,000	1,194,000
Biological, agricultural, and other life scientists	37,000	50,000	54,000	57,000	70,000	86,000	88,000	67,000
Computer and mathematical scientists	238,000	412,000	417,000	541,000	583,000	648,000	749,000	761,000
Physical and related scientists	23,000	27,000	33,000	48,000	35,000	40,000	42,000	37,000
Social and related scientists	13,000	13,000	17,000	19,000	12,000	14,000	25,000	22,000

TABLE 6-2

Employed college graduates, by sex, ethnicity, race, and major occupation: 2003–23

(Number)

Sex, ethnicity, race, and occupation	2003	2010	2013	2015	2017	2019	2021	2023[a]
Engineers	146,000	205,000	181,000	239,000	228,000	268,000	250,000	307,000
S&E-related occupations	218,000	414,000	472,000	404,000	505,000	525,000	608,000	779,000
Non-S&E occupations	548,000	729,000	809,000	811,000	923,000	1,025,000	1,031,000	1,078,000
Black or African American	847,000	1,131,000	1,275,000	1,358,000	1,513,000	1,551,000	1,677,000	1,804,000
S&E occupations	119,000	143,000	165,000	204,000	214,000	244,000	255,000	313,000
Biological, agricultural, and other life scientists	7,000	11,000	8,000	7,000	10,000	11,000	12,000	14,000
Computer and mathematical scientists	57,000	70,000	96,000	112,000	132,000	144,000	159,000	198,000
Physical and related scientists	6,000	7,000	7,000	9,000	6,000	11,000	12,000	8,000
Social and related scientists	10,000	10,000	8,000	19,000	14,000	14,000	16,000	20,000
Engineers	40,000	45,000	46,000	58,000	51,000	65,000	55,000	74,000
S&E-related occupations	86,000	144,000	171,000	213,000	248,000	257,000	268,000	277,000
Non-S&E occupations	641,000	844,000	939,000	941,000	1,051,000	1,049,000	1,154,000	1,215,000
Native Hawaiian or Other Pacific Islander	52,000	67,000	75,000	107,000	70,000	78,000	70,000	22,000
S&E occupations	11,000	9,000	9,000	9,000	19,000	14,000	11,000	6,000
Biological, agricultural, and other life scientists	D	S	1,000	D	*	D	D	D
Computer and mathematical scientists	6,000	2,000	4,000	5,000	9,000	S	5,000	2,000
Physical and related scientists	D	*	D	D	D	D	S	D
Social and related scientists	D	D	D	*	D	*	*	D
Engineers	4,000	4,000	4,000	4,000	8,000	7,000	5,000	S
S&E-related occupations	9,000	17,000	12,000	8,000	7,000	S	18,000	3,000
Non-S&E occupations	33,000	41,000	53,000	90,000	45,000	42,000	41,000	13,000
White	14,239,000	15,910,000	16,529,000	16,913,000	17,044,000	17,264,000	17,663,000	18,045,000
S&E occupations	2,605,000	2,780,000	2,902,000	3,123,000	3,209,000	3,461,000	3,557,000	3,841,000
Biological, agricultural, and other life scientists	199,000	228,000	242,000	241,000	218,000	227,000	278,000	277,000
Computer and mathematical scientists	1,004,000	1,210,000	1,319,000	1,504,000	1,584,000	1,740,000	1,732,000	1,974,000
Physical and related scientists	176,000	184,000	170,000	169,000	194,000	196,000	191,000	195,000
Social and related scientists	190,000	183,000	188,000	168,000	186,000	185,000	206,000	159,000
Engineers	1,037,000	975,000	984,000	1,041,000	1,027,000	1,114,000	1,151,000	1,235,000
S&E-related occupations	1,864,000	2,297,000	2,317,000	2,363,000	2,412,000	2,562,000	2,763,000	2,917,000
Non-S&E occupations	9,770,000	10,833,000	11,309,000	11,427,000	11,423,000	11,240,000	11,343,000	11,287,000
More than one race	193,000	252,000	292,000	432,000	396,000	490,000	612,000	700,000
S&E occupations	41,000	51,000	61,000	72,000	73,000	100,000	124,000	167,000
Biological, agricultural, and other life scientists	3,000	5,000	6,000	5,000	5,000	7,000	S	5,000
Computer and mathematical scientists	18,000	26,000	35,000	41,000	38,000	60,000	76,000	96,000
Physical and related scientists	2,000	3,000	2,000	2,000	3,000	3,000	6,000	6,000
Social and related scientists	3,000	4,000	3,000	3,000	4,000	3,000	3,000	7,000

TABLE 6-2

Employed college graduates, by sex, ethnicity, race, and major occupation: 2003–23

(Number)

Sex, ethnicity, race, and occupation	2003	2010	2013	2015	2017	2019	2021	2023[a]
Engineers	15,000	14,000	16,000	21,000	23,000	27,000	28,000	52,000
S&E-related occupations	27,000	29,000	52,000	56,000	48,000	76,000	60,000	143,000
Non-S&E occupations	126,000	172,000	180,000	305,000	276,000	313,000	429,000	390,000

* = 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.

[a] The 2023 estimates by sex were based on responses to the question, "What sex were you assigned at birth, on your original birth certificate? 1. Male, 2. Female," which was a change from prior survey cycles. In 2021, the question was "What is your sex? 1. Male, 2. Female," and in 2019 and earlier years, the question was "Are you ... 1. Male, 2. Female."

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.

Source(s):
National Center for Science and Engineering Statistics, National Survey of College Graduates, 2023.

TABLE 6-3

Employed college graduates, by sex, level of highest degree, and major occupation: 2003–23

(Number)

Sex, level of highest degree, and occupation	2003	2010	2013	2015	2017	2019	2021	2023[a]
All sexes	32,574,000	40,623,000	43,839,000	45,941,000	48,223,000	50,524,000	51,764,000	56,061,000
S&E occupations	4,588,000	5,374,000	5,766,000	6,407,000	6,769,000	7,466,000	7,894,000	8,711,000
Biological, agricultural, and other life scientists	421,000	602,000	638,000	631,000	610,000	698,000	794,000	813,000
Computer and mathematical scientists	1,930,000	2,396,000	2,653,000	3,156,000	3,419,000	3,774,000	4,031,000	4,573,000
Physical and related scientists	298,000	327,000	324,000	331,000	366,000	409,000	408,000	430,000
Social and related scientists	477,000	518,000	596,000	570,000	646,000	663,000	712,000	631,000
Engineers	1,463,000	1,531,000	1,554,000	1,719,000	1,728,000	1,921,000	1,949,000	2,263,000
S&E-related occupations	5,155,000	6,966,000	7,508,000	7,867,000	8,271,000	8,893,000	9,522,000	11,253,000
Non-S&E occupations	22,831,000	28,282,000	30,566,000	31,667,000	33,183,000	34,165,000	34,349,000	36,097,000
Bachelor's	20,365,000	25,354,000	27,802,000	28,509,000	30,131,000	31,373,000	31,688,000	34,400,000
S&E occupations	2,529,000	2,980,000	3,288,000	3,518,000	3,846,000	4,176,000	4,438,000	5,069,000
Biological, agricultural, and other life scientists	146,000	233,000	264,000	241,000	230,000	277,000	295,000	315,000
Computer and mathematical scientists	1,243,000	1,564,000	1,785,000	1,978,000	2,219,000	2,403,000	2,574,000	2,999,000
Physical and related scientists	119,000	126,000	128,000	126,000	164,000	189,000	177,000	186,000
Social and related scientists	101,000	96,000	124,000	90,000	172,000	147,000	170,000	168,000
Engineers	920,000	960,000	988,000	1,083,000	1,061,000	1,158,000	1,222,000	1,402,000
S&E-related occupations	2,779,000	3,784,000	4,065,000	4,222,000	4,338,000	4,794,000	5,031,000	5,881,000
Non-S&E occupations	15,057,000	18,589,000	20,449,000	20,769,000	21,946,000	22,403,000	22,219,000	23,449,000
Master's	8,677,000	11,118,000	11,728,000	12,888,000	13,260,000	14,158,000	14,688,000	15,780,000
S&E occupations	1,406,000	1,644,000	1,689,000	2,076,000	2,069,000	2,286,000	2,411,000	2,599,000
Biological, agricultural, and other life scientists	94,000	152,000	158,000	169,000	149,000	152,000	188,000	211,000
Computer and mathematical scientists	581,000	717,000	744,000	1,048,000	1,039,000	1,168,000	1,251,000	1,347,000
Physical and related scientists	82,000	87,000	83,000	85,000	98,000	97,000	105,000	119,000
Social and related scientists	205,000	218,000	249,000	249,000	235,000	249,000	283,000	242,000
Engineers	443,000	472,000	456,000	525,000	548,000	619,000	584,000	680,000
S&E-related occupations	1,208,000	1,765,000	1,945,000	2,064,000	2,262,000	2,332,000	2,578,000	3,096,000
Non-S&E occupations	6,063,000	7,709,000	8,093,000	8,749,000	8,929,000	9,540,000	9,699,000	10,085,000
Doctorate	1,271,000	1,500,000	1,551,000	1,641,000	1,796,000	2,090,000	2,141,000	2,420,000
S&E occupations	605,000	692,000	724,000	751,000	786,000	938,000	962,000	973,000
Biological, agricultural, and other life scientists	164,000	199,000	202,000	207,000	217,000	254,000	291,000	264,000
Computer and mathematical scientists	95,000	108,000	112,000	117,000	150,000	189,000	185,000	207,000
Physical and related scientists	94,000	114,000	112,000	119,000	101,000	121,000	125,000	123,000
Social and related scientists	154,000	173,000	190,000	201,000	201,000	235,000	221,000	198,000
Engineers	97,000	97,000	108,000	107,000	116,000	139,000	141,000	181,000
S&E-related occupations	123,000	224,000	236,000	229,000	267,000	387,000	374,000	562,000
Non-S&E occupations	543,000	584,000	590,000	662,000	743,000	765,000	805,000	885,000

TABLE 6-3

Employed college graduates, by sex, level of highest degree, and major occupation: 2003–23

(Number)

Sex, level of highest degree, and occupation	2003	2010	2013	2015	2017	2019	2021	2023[a]
Professional	2,261,000	2,651,000	2,758,000	2,903,000	3,036,000	2,903,000	3,246,000	3,461,000
S&E occupations	49,000	58,000	64,000	63,000	67,000	67,000	82,000	70,000
Biological, agricultural, and other life scientists	17,000	17,000	14,000	14,000	15,000	14,000	20,000	23,000
Computer and mathematical scientists	11,000	7,000	11,000	13,000	11,000	14,000	22,000	21,000
Physical and related scientists	2,000	*	1,000	*	2,000	2,000	1,000	S
Social and related scientists	17,000	31,000	35,000	30,000	37,000	32,000	38,000	24,000
Engineers	2,000	1,000	2,000	5,000	2,000	5,000	S	D
S&E-related occupations	1,045,000	1,193,000	1,262,000	1,353,000	1,404,000	1,380,000	1,538,000	1,714,000
Non-S&E occupations	1,167,000	1,399,000	1,433,000	1,487,000	1,565,000	1,456,000	1,626,000	1,677,000
Female	15,111,000	19,978,000	22,052,000	23,218,000	24,900,000	26,341,000	26,493,000	29,603,000
S&E occupations	1,203,000	1,486,000	1,681,000	1,818,000	1,966,000	2,193,000	2,300,000	2,586,000
Biological, agricultural, and other life scientists	164,000	292,000	311,000	302,000	292,000	337,000	367,000	405,000
Computer and mathematical scientists	552,000	602,000	673,000	833,000	919,000	975,000	1,053,000	1,214,000
Physical and related scientists	83,000	98,000	100,000	92,000	107,000	142,000	135,000	160,000
Social and related scientists	251,000	295,000	363,000	341,000	379,000	428,000	433,000	398,000
Engineers	154,000	200,000	235,000	250,000	269,000	310,000	312,000	409,000
S&E-related occupations	2,814,000	3,877,000	4,223,000	4,558,000	4,764,000	5,109,000	5,494,000	6,669,000
Non-S&E occupations	11,094,000	14,615,000	16,147,000	16,842,000	18,170,000	19,040,000	18,699,000	20,349,000
Bachelor's	9,522,000	12,592,000	13,904,000	14,206,000	15,524,000	16,021,000	15,827,000	17,847,000
S&E occupations	605,000	720,000	832,000	818,000	979,000	1,034,000	1,099,000	1,318,000
Biological, agricultural, and other life scientists	62,000	136,000	139,000	127,000	119,000	129,000	140,000	157,000
Computer and mathematical scientists	363,000	383,000	435,000	456,000	570,000	568,000	612,000	733,000
Physical and related scientists	40,000	43,000	49,000	39,000	49,000	78,000	62,000	82,000
Social and related scientists	50,000	51,000	74,000	53,000	92,000	95,000	106,000	99,000
Engineers	89,000	106,000	134,000	143,000	149,000	163,000	179,000	247,000
S&E-related occupations	1,719,000	2,335,000	2,494,000	2,567,000	2,654,000	2,845,000	3,044,000	3,628,000
Non-S&E occupations	7,198,000	9,538,000	10,579,000	10,821,000	11,891,000	12,142,000	11,685,000	12,902,000
Master's	4,431,000	5,838,000	6,479,000	7,196,000	7,359,000	8,141,000	8,314,000	9,101,000
S&E occupations	407,000	516,000	575,000	708,000	670,000	757,000	816,000	886,000
Biological, agricultural, and other life scientists	41,000	74,000	84,000	80,000	75,000	83,000	100,000	121,000
Computer and mathematical scientists	166,000	192,000	211,000	340,000	298,000	340,000	384,000	426,000
Physical and related scientists	27,000	33,000	28,000	33,000	39,000	37,000	43,000	46,000
Social and related scientists	119,000	141,000	170,000	164,000	155,000	171,000	180,000	162,000
Engineers	54,000	77,000	82,000	91,000	104,000	126,000	108,000	131,000
S&E-related occupations	729,000	1,043,000	1,156,000	1,338,000	1,405,000	1,469,000	1,580,000	1,926,000
Non-S&E occupations	3,295,000	4,279,000	4,748,000	5,150,000	5,284,000	5,915,000	5,918,000	6,289,000

TABLE 6-3

Employed college graduates, by sex, level of highest degree, and major occupation: 2003–23

(Number)

Sex, level of highest degree, and occupation	2003	2010	2013	2015	2017	2019	2021	2023[a]
Doctorate	422,000	521,000	597,000	646,000	734,000	900,000	887,000	1,060,000
S&E occupations	170,000	215,000	239,000	261,000	279,000	365,000	343,000	344,000
Biological, agricultural, and other life scientists	55,000	74,000	80,000	88,000	90,000	118,000	118,000	115,000
Computer and mathematical scientists	20,000	24,000	25,000	30,000	46,000	61,000	51,000	47,000
Physical and related scientists	15,000	22,000	22,000	20,000	19,000	28,000	30,000	32,000
Social and related scientists	70,000	79,000	94,000	107,000	108,000	139,000	120,000	120,000
Engineers	10,000	17,000	18,000	15,000	16,000	20,000	25,000	31,000
S&E-related occupations	51,000	86,000	100,000	107,000	126,000	188,000	197,000	302,000
Non-S&E occupations	200,000	220,000	258,000	278,000	328,000	346,000	347,000	413,000
Professional	736,000	1,027,000	1,072,000	1,170,000	1,283,000	1,280,000	1,466,000	1,595,000
S&E occupations	21,000	35,000	35,000	31,000	37,000	36,000	42,000	38,000
Biological, agricultural, and other life scientists	6,000	8,000	7,000	6,000	7,000	7,000	9,000	13,000
Computer and mathematical scientists	3,000	S	S	S	S	6,000	6,000	S
Physical and related scientists	D	D	D	D	D	D	D	D
Social and related scientists	11,000	23,000	24,000	17,000	25,000	22,000	27,000	17,000
Engineers	D	D	D	D	D	D	D	D
S&E-related occupations	314,000	413,000	474,000	546,000	579,000	607,000	674,000	813,000
Non-S&E occupations	401,000	578,000	563,000	594,000	667,000	637,000	750,000	745,000
Male	17,463,000	20,644,000	21,787,000	22,723,000	23,323,000	24,183,000	25,271,000	26,458,000
S&E occupations	3,385,000	3,888,000	4,084,000	4,590,000	4,803,000	5,274,000	5,594,000	6,126,000
Biological, agricultural, and other life scientists	257,000	310,000	328,000	329,000	319,000	361,000	427,000	408,000
Computer and mathematical scientists	1,378,000	1,795,000	1,980,000	2,323,000	2,500,000	2,799,000	2,979,000	3,360,000
Physical and related scientists	215,000	229,000	224,000	239,000	259,000	267,000	273,000	270,000
Social and related scientists	226,000	223,000	234,000	229,000	266,000	235,000	279,000	233,000
Engineers	1,309,000	1,331,000	1,319,000	1,469,000	1,459,000	1,612,000	1,636,000	1,855,000
S&E-related occupations	2,341,000	3,089,000	3,285,000	3,309,000	3,507,000	3,785,000	4,028,000	4,584,000
Non-S&E occupations	11,736,000	13,667,000	14,418,000	14,824,000	15,013,000	15,125,000	15,649,000	15,748,000
Bachelor's	10,843,000	12,761,000	13,898,000	14,303,000	14,606,000	15,353,000	15,861,000	16,553,000
S&E occupations	1,925,000	2,260,000	2,457,000	2,700,000	2,867,000	3,142,000	3,339,000	3,752,000
Biological, agricultural, and other life scientists	84,000	98,000	125,000	114,000	110,000	148,000	155,000	158,000
Computer and mathematical scientists	880,000	1,181,000	1,350,000	1,522,000	1,649,000	1,835,000	1,961,000	2,266,000
Physical and related scientists	79,000	83,000	79,000	87,000	115,000	112,000	116,000	103,000
Social and related scientists	51,000	44,000	49,000	37,000	80,000	52,000	64,000	69,000
Engineers	831,000	854,000	853,000	940,000	912,000	995,000	1,043,000	1,155,000
S&E-related occupations	1,060,000	1,450,000	1,571,000	1,655,000	1,685,000	1,949,000	1,988,000	2,253,000
Non-S&E occupations	7,858,000	9,052,000	9,871,000	9,948,000	10,055,000	10,262,000	10,534,000	10,548,000

TABLE 6-3

Employed college graduates, by sex, level of highest degree, and major occupation: 2003–23

(Number)

Sex, level of highest degree, and occupation	2003	2010	2013	2015	2017	2019	2021	2023[a]
Master's	4,247,000	5,280,000	5,249,000	5,692,000	5,901,000	6,017,000	6,375,000	6,679,000
S&E occupations	999,000	1,129,000	1,114,000	1,367,000	1,399,000	1,529,000	1,595,000	1,713,000
Biological, agricultural, and other life scientists	54,000	78,000	74,000	88,000	74,000	69,000	88,000	91,000
Computer and mathematical scientists	415,000	525,000	533,000	708,000	741,000	828,000	867,000	920,000
Physical and related scientists	55,000	54,000	55,000	53,000	59,000	60,000	61,000	73,000
Social and related scientists	86,000	77,000	79,000	85,000	80,000	78,000	102,000	79,000
Engineers	389,000	395,000	374,000	434,000	445,000	493,000	476,000	550,000
S&E-related occupations	479,000	721,000	790,000	726,000	857,000	864,000	998,000	1,170,000
Non-S&E occupations	2,769,000	3,430,000	3,346,000	3,599,000	3,645,000	3,625,000	3,781,000	3,796,000
Doctorate	849,000	979,000	954,000	996,000	1,062,000	1,190,000	1,254,000	1,361,000
S&E occupations	434,000	477,000	485,000	490,000	507,000	573,000	619,000	629,000
Biological, agricultural, and other life scientists	109,000	125,000	122,000	119,000	127,000	137,000	173,000	149,000
Computer and mathematical scientists	75,000	85,000	87,000	87,000	104,000	128,000	134,000	161,000
Physical and related scientists	79,000	92,000	90,000	99,000	82,000	94,000	95,000	92,000
Social and related scientists	84,000	94,000	95,000	94,000	93,000	95,000	101,000	78,000
Engineers	88,000	81,000	90,000	92,000	101,000	119,000	116,000	150,000
S&E-related occupations	72,000	138,000	136,000	122,000	140,000	199,000	177,000	259,000
Non-S&E occupations	343,000	364,000	333,000	384,000	415,000	419,000	458,000	472,000
Professional	1,524,000	1,624,000	1,686,000	1,732,000	1,754,000	1,623,000	1,781,000	1,865,000
S&E occupations	27,000	23,000	29,000	32,000	30,000	30,000	41,000	32,000
Biological, agricultural, and other life scientists	11,000	9,000	7,000	8,000	8,000	7,000	11,000	10,000
Computer and mathematical scientists	8,000	4,000	9,000	7,000	7,000	8,000	15,000	12,000
Physical and related scientists	S	*	D	D	2,000	1,000	S	S
Social and related scientists	5,000	8,000	11,000	13,000	12,000	10,000	12,000	7,000
Engineers	1,000	S	2,000	4,000	1,000	5,000	S	D
S&E-related occupations	730,000	780,000	788,000	807,000	825,000	773,000	865,000	901,000
Non-S&E occupations	767,000	821,000	870,000	893,000	898,000	819,000	876,000	932,000

* = 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.

[a] The 2023 estimates by sex were based on responses to the question, "What sex were you assigned at birth, on your original birth certificate? 1. Male, 2. Female," which was a change from prior survey cycles. In 2021, the question was "What is your sex? 1. Male, 2. Female," and in 2019 and earlier years, the question was "Are you ... 1. Male, 2. Female."

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, 2023.

TABLE 6-4

Employed college graduates, by place of birth, level of highest degree, and major occupation: 2003–23

(Number)

Place of birth, level of highest degree, and occupation	2003	2010	2013	2015	2017	2019	2021	2023
All places of birth	32,574,000	40,623,000	43,839,000	45,941,000	48,223,000	50,524,000	51,764,000	56,061,000
S&E occupations	4,588,000	5,374,000	5,766,000	6,407,000	6,769,000	7,466,000	7,894,000	8,711,000
Biological, agricultural, and other life scientists	421,000	602,000	638,000	631,000	610,000	698,000	794,000	813,000
Computer and mathematical scientists	1,930,000	2,396,000	2,653,000	3,156,000	3,419,000	3,774,000	4,031,000	4,573,000
Physical and related scientists	298,000	327,000	324,000	331,000	366,000	409,000	408,000	430,000
Social and related scientists	477,000	518,000	596,000	570,000	646,000	663,000	712,000	631,000
Engineers	1,463,000	1,531,000	1,554,000	1,719,000	1,728,000	1,921,000	1,949,000	2,263,000
S&E-related occupations	5,155,000	6,966,000	7,508,000	7,867,000	8,271,000	8,893,000	9,522,000	11,253,000
Non-S&E occupations	22,831,000	28,282,000	30,566,000	31,667,000	33,183,000	34,165,000	34,349,000	36,097,000
Bachelor's	20,365,000	25,354,000	27,802,000	28,509,000	30,131,000	31,373,000	31,688,000	34,400,000
S&E occupations	2,529,000	2,980,000	3,288,000	3,518,000	3,846,000	4,176,000	4,438,000	5,069,000
Biological, agricultural, and other life scientists	146,000	233,000	264,000	241,000	230,000	277,000	295,000	315,000
Computer and mathematical scientists	1,243,000	1,564,000	1,785,000	1,978,000	2,219,000	2,403,000	2,574,000	2,999,000
Physical and related scientists	119,000	126,000	128,000	126,000	164,000	189,000	177,000	186,000
Social and related scientists	101,000	96,000	124,000	90,000	172,000	147,000	170,000	168,000
Engineers	920,000	960,000	988,000	1,083,000	1,061,000	1,158,000	1,222,000	1,402,000
S&E-related occupations	2,779,000	3,784,000	4,065,000	4,222,000	4,338,000	4,794,000	5,031,000	5,881,000
Non-S&E occupations	15,057,000	18,589,000	20,449,000	20,769,000	21,946,000	22,403,000	22,219,000	23,449,000
Master's	8,677,000	11,118,000	11,728,000	12,888,000	13,260,000	14,158,000	14,688,000	15,780,000
S&E occupations	1,406,000	1,644,000	1,689,000	2,076,000	2,069,000	2,286,000	2,411,000	2,599,000
Biological, agricultural, and other life scientists	94,000	152,000	158,000	169,000	149,000	152,000	188,000	211,000
Computer and mathematical scientists	581,000	717,000	744,000	1,048,000	1,039,000	1,168,000	1,251,000	1,347,000
Physical and related scientists	82,000	87,000	83,000	85,000	98,000	97,000	105,000	119,000
Social and related scientists	205,000	218,000	249,000	249,000	235,000	249,000	283,000	242,000
Engineers	443,000	472,000	456,000	525,000	548,000	619,000	584,000	680,000
S&E-related occupations	1,208,000	1,765,000	1,945,000	2,064,000	2,262,000	2,332,000	2,578,000	3,096,000
Non-S&E occupations	6,063,000	7,709,000	8,093,000	8,749,000	8,929,000	9,540,000	9,699,000	10,085,000
Doctorate	1,271,000	1,500,000	1,551,000	1,641,000	1,796,000	2,090,000	2,141,000	2,420,000
S&E occupations	605,000	692,000	724,000	751,000	786,000	938,000	962,000	973,000
Biological, agricultural, and other life scientists	164,000	199,000	202,000	207,000	217,000	254,000	291,000	264,000
Computer and mathematical scientists	95,000	108,000	112,000	117,000	150,000	189,000	185,000	207,000
Physical and related scientists	94,000	114,000	112,000	119,000	101,000	121,000	125,000	123,000
Social and related scientists	154,000	173,000	190,000	201,000	201,000	235,000	221,000	198,000
Engineers	97,000	97,000	108,000	107,000	116,000	139,000	141,000	181,000
S&E-related occupations	123,000	224,000	236,000	229,000	267,000	387,000	374,000	562,000
Non-S&E occupations	543,000	584,000	590,000	662,000	743,000	765,000	805,000	885,000

TABLE 6-4

Employed college graduates, by place of birth, level of highest degree, and major occupation: 2003–23

(Number)

Place of birth, level of highest degree, and occupation	2003	2010	2013	2015	2017	2019	2021	2023
Professional	2,261,000	2,651,000	2,758,000	2,903,000	3,036,000	2,903,000	3,246,000	3,461,000
S&E occupations	49,000	58,000	64,000	63,000	67,000	67,000	82,000	70,000
Biological, agricultural, and other life scientists	17,000	17,000	14,000	14,000	15,000	14,000	20,000	23,000
Computer and mathematical scientists	11,000	7,000	11,000	13,000	11,000	14,000	22,000	21,000
Physical and related scientists	2,000	*	1,000	*	2,000	2,000	1,000	S
Social and related scientists	17,000	31,000	35,000	30,000	37,000	32,000	38,000	24,000
Engineers	2,000	1,000	2,000	5,000	2,000	5,000	S	D
S&E-related occupations	1,045,000	1,193,000	1,262,000	1,353,000	1,404,000	1,380,000	1,538,000	1,714,000
Non-S&E occupations	1,167,000	1,399,000	1,433,000	1,487,000	1,565,000	1,456,000	1,626,000	1,677,000
Foreign-born college graduates	4,347,000	5,990,000	6,704,000	7,371,000	8,126,000	8,602,000	9,311,000	10,004,000
S&E occupations	1,032,000	1,467,000	1,528,000	1,923,000	1,998,000	2,192,000	2,261,000	2,446,000
Biological, agricultural, and other life scientists	105,000	178,000	184,000	189,000	199,000	229,000	246,000	233,000
Computer and mathematical scientists	490,000	731,000	804,000	1,078,000	1,135,000	1,263,000	1,325,000	1,447,000
Physical and related scientists	65,000	82,000	85,000	101,000	108,000	93,000	99,000	86,000
Social and related scientists	61,000	80,000	97,000	117,000	102,000	112,000	129,000	133,000
Engineers	312,000	395,000	358,000	438,000	454,000	495,000	462,000	547,000
S&E-related occupations	842,000	1,302,000	1,467,000	1,356,000	1,630,000	1,802,000	1,930,000	2,327,000
Non-S&E occupations	2,472,000	3,221,000	3,709,000	4,092,000	4,499,000	4,609,000	5,120,000	5,230,000
Bachelor's	2,418,000	3,294,000	3,807,000	4,072,000	4,464,000	4,672,000	5,036,000	5,338,000
S&E occupations	408,000	609,000	621,000	745,000	829,000	878,000	887,000	977,000
Biological, agricultural, and other life scientists	16,000	36,000	35,000	37,000	38,000	47,000	46,000	47,000
Computer and mathematical scientists	226,000	363,000	397,000	476,000	539,000	591,000	612,000	665,000
Physical and related scientists	17,000	16,000	19,000	22,000	45,000	22,000	20,000	18,000
Social and related scientists	10,000	18,000	15,000	13,000	22,000	19,000	22,000	25,000
Engineers	139,000	175,000	154,000	197,000	184,000	199,000	187,000	221,000
S&E-related occupations	422,000	671,000	764,000	656,000	768,000	895,000	981,000	1,123,000
Non-S&E occupations	1,588,000	2,014,000	2,422,000	2,672,000	2,867,000	2,899,000	3,168,000	3,238,000
Master's	1,237,000	1,826,000	1,964,000	2,291,000	2,559,000	2,706,000	2,980,000	3,294,000
S&E occupations	399,000	562,000	580,000	842,000	811,000	873,000	926,000	1,008,000
Biological, agricultural, and other life scientists	16,000	43,000	42,000	46,000	46,000	46,000	52,000	52,000
Computer and mathematical scientists	217,000	310,000	343,000	533,000	505,000	553,000	599,000	663,000
Physical and related scientists	16,000	20,000	21,000	24,000	23,000	20,000	27,000	24,000
Social and related scientists	24,000	28,000	33,000	58,000	32,000	40,000	53,000	47,000
Engineers	126,000	162,000	141,000	182,000	203,000	214,000	194,000	221,000
S&E-related occupations	157,000	273,000	340,000	336,000	443,000	453,000	497,000	684,000
Non-S&E occupations	681,000	991,000	1,044,000	1,113,000	1,306,000	1,380,000	1,557,000	1,602,000

TABLE 6-4

Employed college graduates, by place of birth, level of highest degree, and major occupation: 2003–23

(Number)

Place of birth, level of highest degree, and occupation	2003	2010	2013	2015	2017	2019	2021	2023
Doctorate	351,000	499,000	498,000	536,000	599,000	753,000	770,000	813,000
S&E occupations	213,000	279,000	300,000	318,000	339,000	420,000	427,000	446,000
Biological, agricultural, and other life scientists	65,000	90,000	98,000	97,000	105,000	127,000	139,000	124,000
Computer and mathematical scientists	45,000	55,000	59,000	68,000	88,000	114,000	110,000	117,000
Physical and related scientists	31,000	46,000	44,000	55,000	40,000	51,000	53,000	44,000
Social and related scientists	25,000	32,000	37,000	39,000	41,000	48,000	46,000	57,000
Engineers	47,000	57,000	62,000	58,000	65,000	79,000	80,000	104,000
S&E-related occupations	34,000	86,000	79,000	87,000	103,000	155,000	127,000	171,000
Non-S&E occupations	104,000	133,000	119,000	131,000	157,000	178,000	217,000	196,000
Professional	340,000	371,000	435,000	472,000	504,000	471,000	525,000	559,000
S&E occupations	12,000	17,000	27,000	18,000	19,000	21,000	21,000	15,000
Biological, agricultural, and other life scientists	7,000	10,000	10,000	9,000	9,000	8,000	9,000	10,000
Computer and mathematical scientists	2,000	S	4,000	2,000	S	5,000	S	D
Physical and related scientists	D	D	D	D	D	D	D	D
Social and related scientists	2,000	3,000	11,000	6,000	7,000	5,000	8,000	3,000
Engineers	D	D	D	D	D	D	D	D
S&E-related occupations	230,000	271,000	283,000	277,000	316,000	298,000	325,000	349,000
Non-S&E occupations	99,000	83,000	124,000	177,000	169,000	152,000	179,000	194,000
U.S.-born college graduates	28,228,000	34,633,000	37,136,000	38,570,000	40,097,000	41,922,000	42,453,000	46,057,000
S&E occupations	3,556,000	3,907,000	4,238,000	4,484,000	4,771,000	5,275,000	5,633,000	6,265,000
Biological, agricultural, and other life scientists	316,000	423,000	454,000	442,000	412,000	469,000	548,000	580,000
Computer and mathematical scientists	1,440,000	1,665,000	1,849,000	2,078,000	2,284,000	2,512,000	2,707,000	3,126,000
Physical and related scientists	233,000	245,000	239,000	230,000	258,000	316,000	309,000	344,000
Social and related scientists	416,000	438,000	499,000	453,000	544,000	551,000	583,000	498,000
Engineers	1,150,000	1,136,000	1,196,000	1,281,000	1,274,000	1,427,000	1,487,000	1,717,000
S&E-related occupations	4,313,000	5,665,000	6,041,000	6,511,000	6,642,000	7,092,000	7,592,000	8,925,000
Non-S&E occupations	20,358,000	25,061,000	26,857,000	27,574,000	28,684,000	29,556,000	29,228,000	30,867,000
Bachelor's	17,947,000	22,060,000	23,995,000	24,437,000	25,667,000	26,701,000	26,652,000	29,062,000
S&E occupations	2,121,000	2,372,000	2,667,000	2,773,000	3,018,000	3,298,000	3,551,000	4,092,000
Biological, agricultural, and other life scientists	130,000	198,000	229,000	204,000	192,000	230,000	249,000	267,000
Computer and mathematical scientists	1,017,000	1,201,000	1,388,000	1,502,000	1,680,000	1,812,000	1,962,000	2,334,000
Physical and related scientists	102,000	110,000	108,000	104,000	119,000	168,000	158,000	168,000
Social and related scientists	92,000	78,000	109,000	77,000	150,000	128,000	148,000	142,000
Engineers	781,000	785,000	833,000	886,000	876,000	959,000	1,035,000	1,181,000
S&E-related occupations	2,358,000	3,113,000	3,301,000	3,566,000	3,570,000	3,899,000	4,050,000	4,758,000
Non-S&E occupations	13,469,000	16,575,000	18,028,000	18,098,000	19,079,000	19,504,000	19,051,000	20,211,000

TABLE 6-4

Employed college graduates, by place of birth, level of highest degree, and major occupation: 2003–23

(Number)

Place of birth, level of highest degree, and occupation	2003	2010	2013	2015	2017	2019	2021	2023
Master's	7,440,000	9,292,000	9,764,000	10,597,000	10,701,000	11,452,000	11,708,000	12,486,000
S&E occupations	1,006,000	1,082,000	1,110,000	1,233,000	1,258,000	1,413,000	1,485,000	1,592,000
Biological, agricultural, and other life scientists	78,000	109,000	116,000	123,000	102,000	107,000	136,000	159,000
Computer and mathematical scientists	364,000	406,000	402,000	515,000	533,000	616,000	653,000	684,000
Physical and related scientists	66,000	67,000	62,000	61,000	75,000	77,000	77,000	95,000
Social and related scientists	181,000	190,000	215,000	191,000	203,000	209,000	230,000	194,000
Engineers	317,000	310,000	315,000	343,000	345,000	405,000	390,000	459,000
S&E-related occupations	1,052,000	1,492,000	1,605,000	1,728,000	1,820,000	1,880,000	2,081,000	2,412,000
Non-S&E occupations	5,382,000	6,718,000	7,049,000	7,635,000	7,623,000	8,160,000	8,142,000	8,483,000
Doctorate	920,000	1,001,000	1,053,000	1,105,000	1,197,000	1,337,000	1,371,000	1,607,000
S&E occupations	392,000	412,000	424,000	433,000	447,000	518,000	535,000	527,000
Biological, agricultural, and other life scientists	99,000	109,000	105,000	110,000	112,000	127,000	152,000	141,000
Computer and mathematical scientists	50,000	53,000	53,000	49,000	62,000	75,000	75,000	90,000
Physical and related scientists	63,000	68,000	68,000	64,000	61,000	70,000	72,000	79,000
Social and related scientists	129,000	142,000	152,000	162,000	160,000	186,000	176,000	141,000
Engineers	51,000	40,000	47,000	49,000	51,000	60,000	60,000	76,000
S&E-related occupations	89,000	138,000	157,000	141,000	164,000	231,000	247,000	391,000
Non-S&E occupations	439,000	451,000	472,000	531,000	586,000	588,000	588,000	689,000
Professional	1,920,000	2,280,000	2,323,000	2,431,000	2,532,000	2,432,000	2,722,000	2,902,000
S&E occupations	37,000	41,000	37,000	45,000	48,000	46,000	61,000	55,000
Biological, agricultural, and other life scientists	10,000	7,000	4,000	6,000	6,000	6,000	11,000	13,000
Computer and mathematical scientists	10,000	5,000	7,000	12,000	8,000	9,000	17,000	18,000
Physical and related scientists	S	D	D	*	2,000	2,000	1,000	S
Social and related scientists	14,000	28,000	23,000	23,000	30,000	28,000	30,000	21,000
Engineers	2,000	D	2,000	4,000	S	3,000	S	D
S&E-related occupations	815,000	922,000	978,000	1,076,000	1,088,000	1,082,000	1,214,000	1,364,000
Non-S&E occupations	1,068,000	1,317,000	1,309,000	1,310,000	1,396,000	1,304,000	1,447,000	1,483,000

* = 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, 2023.

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 graduates in the science and engineering (S&E) workforce. It samples individuals living in the United States during the survey reference week who 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 the Survey of Doctorate Recipients (SDR). These two surveys share a common reference date, and they use similar questionnaires and data processing guidelines.

The 2023 NSCG data collection instrument includes revisions from the previous survey cycle to remove questions collecting information on the impact of the COVID-19 pandemic and to include new or expanded questions on telecommuting, race, and gender identity. The telecommuting question was expanded to include telecommuting frequency; the race question was expanded to include more detailed information through the collection of subgroup information for the Asian and the Native Hawaiian or Other Pacific Islander categories; and the sex question from the previous survey cycle was replaced with sex at birth and gender identity questions.

These technical notes provide an overview of the 2023 NSCG.

Data collection authority. Title 13, Section 8 of the United States Code; the National Science Foundation Act of 1950, as amended; and the America COMPETES Reauthorization Act of 2010 authorize this collection. The Office of Management and Budget control number is 3145-0141. The disclosure review number is NCSES-DRN24-091.

Survey contractor. Census Bureau.

Survey sponsor. The National Center for Science and Engineering Statistics (NCSES) within the U.S. National Science Foundation.

Key Survey Information

Frequency. Biennial.

Initial survey year. 1993.

Reference period. The week of 1 February 2023.

Response unit. Individuals with at least a bachelor's degree.

Sample or census. Sample.

Population size. Approximately 71.7 million individuals.

Sample size. Approximately 161,000 individuals.

Survey Design

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

- Earned a bachelor's degree[1] or higher prior to 1 January 2022

- Are not institutionalized and reside in the United States or Puerto Rico as of 1 February 2023
- Are younger than 76 years as of 1 February 2023

Sampling frame. Using a rotating panel design, the 2023 NSCG includes new sample cases from the 2021 American Community Survey (ACS) and returning sample cases from the 2021 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 2023
- Did not have an inaccurate name or incomplete address on the ACS data file

Returning sample cases from the 2021 NSCG originated from three different frames (the 2015 ACS, 2017 ACS, and 2019 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 2023
- During the 2021 NSCG survey cycle, did not refuse to participate and did not 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 were selected using systematic probability proportional to size (PPS) sampling.[2] Among the returning sample, all eligible cases were selected. The sampling strata were defined by the cross-classification of the following variables:

- Highest degree type (3 levels)
- Field of bachelor's degree (7 levels)
- Occupation group (8 levels)
- Underrepresented minority status (2 levels)
- Recent degree status (2 levels)
- Nativity (U.S.-born or foreign-born) (2 levels)

As has been the case since the 2013 NSCG, the 2023 NSCG includes an oversample of young graduates to improve the precision of estimates for this important population. The 2023 NSCG includes approximately 161,000 sample cases drawn from the following:

- Returning sample from the 2021 NSCG who were originally selected from the 2015 ACS
- Returning sample from the 2021 NSCG who were originally selected from the 2017 ACS
- Returning sample from the 2021 NSCG who were originally selected from the 2019 ACS

- New sample selected from the 2021 ACS

Approximately 106,000 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 55,000 new sample cases were selected from the 2021 ACS.

Data Collection and Processing Methods

Data collection. The data collection period lasted approximately 6 months (25 May 2023 to 20 November 2023). 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 91% of the participants completed the survey by Web, 7% by mail, and 2% 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 61%; the weighted response rate was 61%. Of the roughly 161,000 persons in the 2023 NSCG sample, 94,606 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. 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.

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 checks found inconsistent data, which were removed and then subject to statistical imputation.

The item nonresponse rates reflect data missing after logical imputation or editing but before statistical imputation. The rates presented in this section are unweighted item nonresponse rates. For key employment items—such as employment status, sector of employment, and primary work activity—the item nonresponse rates ranged from 0.0% to 1.3%. Nonresponse to questions deemed sensitive was higher: nonresponse to salary and earned income was 5.1% and 7.6%, respectively, for the new sample members and 4.5% and 7.0%, respectively, for the returning members. Personal demographic data of the new sample members had variable item nonresponse rates, with sex at birth at 0.8%, birth year at 0.04%, marital status at 0.6%, citizenship at 0.4%, ethnicity at 1.6%, and race at 3.7%. The nonresponse rates for returning sample members were 0.7% for marital status and 0.7% 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 reliably related to or suitable for predicting the missing value, such as day of birth. In these instances, random imputation was used, so 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.

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 frame (2015 ACS, 2017 ACS, 2019 ACS, and 2021 ACS) into a final sample weight that reflects the 2023 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); Fay and Train (1995); Ash (2014); and Opsomer et al. (2016). 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 2023 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 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. 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 ACS 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 2023 NSCG was 61%; the unweighted response rate was 61%. 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

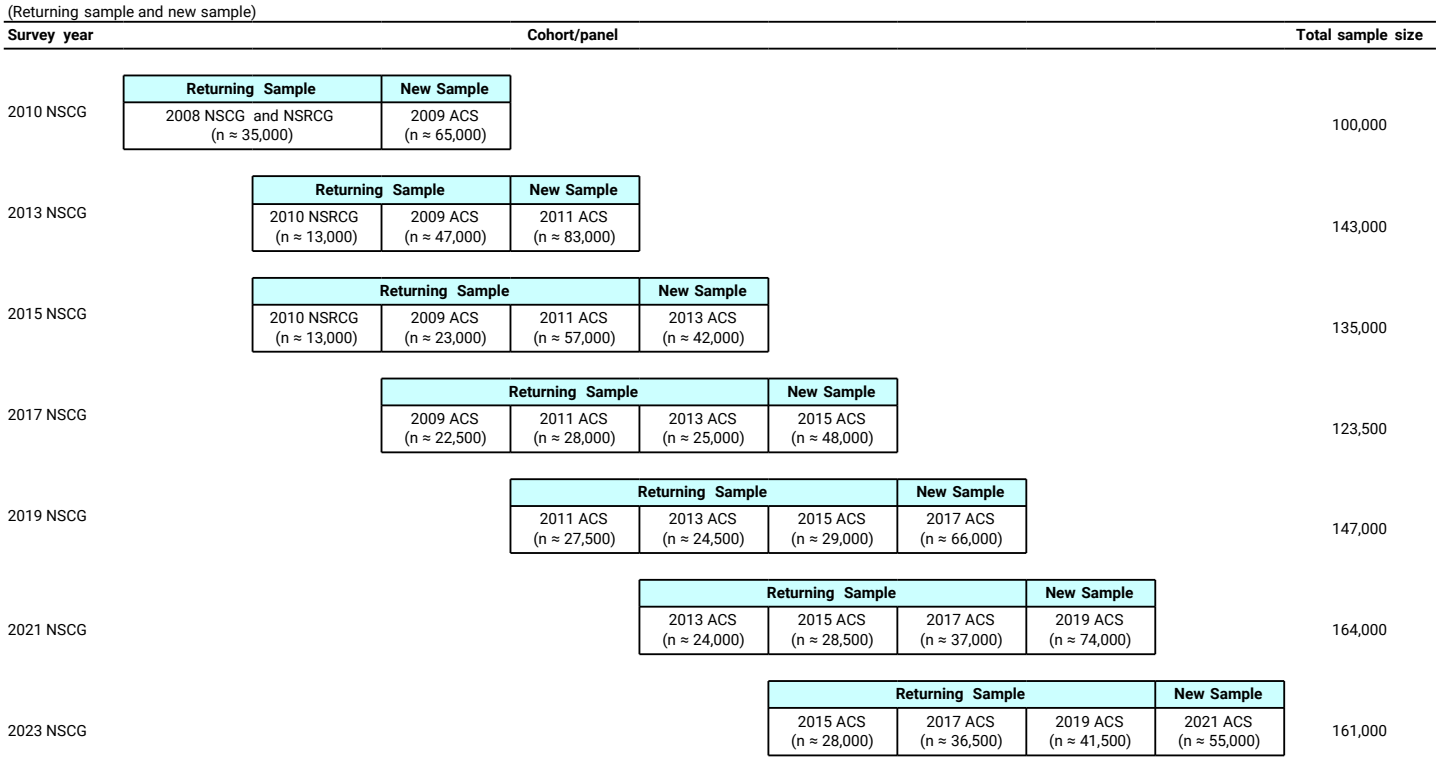
Data comparability. Year-to-year comparisons of the nation's college-educated population can be made among the 1993, 2003, 2010, 2013, 2015, 2017, 2019, 2021, and 2023 survey cycles because many of the core questions remained the same. Since the 1995, 1997, 1999, 2006, and 2008 surveys only included individuals educated or employed in S&E fields and, therefore, do not provide full coverage of the nation's college-educated population, any comparison between these cycles and other cycles should be limited to those individuals educated or employed in S&E fields.

Small but notable differences exist across some survey cycles, however, such as the collection of occupation and education data based on more recent taxonomies. 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, in the 2013 NSCG through the 2019 NSCG, in the 2015 NSCG through the 2021 NSCG, and in the 2017 NSCG through the 2023 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 NSCG restricted-use data for longitudinal analysis purposes via the SDAF, please visit NCSES Restricted-Use Data Licensing. Moreover, the Federal Statistical Research Data Centers (FSRDCs) provide access to NSCG restricted-use data files that include a few additional data elements. Instructions for applying for access to the FSRDCs are also available at NCSES Restricted-Use Data Licensing.

FIGURE 1

Rotating panel design and sample sizes for the National Survey of College Graduates: 2010–23



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

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 coverage and population. None.

Changes in questionnaire

- 2023. The 2023 NSCG questionnaire aligned with the content in the 2021 NSCG aside from the following modifications:

    1. COVID-19 pandemic-related revisions from the 2021 survey were removed from recurring questions. In the 2021 survey cycle, the pandemic was affecting the employment situation of many individuals. Where these effects could impact NSCG measures (e.g., employment status, part-time employment, job benefits, earnings, and conference attendance), the 2021 questionnaire allowed respondents to identify if the pandemic was involved. For the 2023 cycle, these revisions were removed.
    2. The COVID-19 pandemic telework question transitioned to a general telework question. One item added to the 2021 NSCG questionnaire asked whether respondents were allowed or required to telework due to the COVID-19 pandemic. Because remote work is an important employment feature, the 2023 NSCG questionnaire added a new item to gauge employees' participation in telework, regardless of the pandemic.

3. The race question was modified to also collect subgroup information for the Asian and the Native Hawaiian or Other Pacific Islander race categories.
4. The sex item was modified to collect both sex at birth and gender identity.
5. A few items received minor adjustments for clarity, to reduce participant burden, and increase data quality (e.g., using the word "when" in place of "in what year").
6. The list of occupations and fields of study was updated to reflect NCSES's latest taxonomies.
7. The mode preference item was removed, as Web is the predominant mode used to complete the NSCG.

- 2021. To gauge the effects of the COVID-19 pandemic on employment, the content of the NSCG questionnaire was modified for 2021 in two ways:
    1. The response options of long-standing items were revised to identify pandemic-related consequences: for example, reasons for not working, reasons for working part time, reasons for changing employment, and available job benefits.
    2. New items were added to understand the effects of the pandemic on salaries and earnings and to measure the prevalence of telework.
- 2019. The content of the 2019 NSCG questionnaire remained unchanged from the 2017 NSCG version.
- 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 or classification

- In the current survey cycle, the technical tables for field of degree (**table A-1**) and occupation (**table A-2**) have been updated to align with the NCSES taxonomies (Taxonomy of Disciplines and Taxonomy of Occupations) released in 2020. These taxonomies reflect compliance with the 2020 Classification of Instructional Programs (CIP) and the 2018 Standard Occupational Classification (SOC) systems, respectively. The technical tables in the previous cycles (2017 through 2021) were based on the 2010 CIP and 2010 SOC.
- Additionally, the technical tables may change from year to year due to decisions made by the Census Bureau's Disclosure Review Board (DRB) to meet disclosure avoidance requirements. As a result, some detailed codes may be collapsed to protect respondent confidentiality.

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 2023 NSCG used a taxonomy of 137 "detailed" fields of study from which respondents could select the field that best represented their major. These 137 "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). (See **technical table A-1** for a list and classification of fields of study 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 collect professional degrees. As such, there is not always sufficient data for the professional degrees to be displayed 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, A6, A16, and A17). Also used in the occupational classification was a respondent-selected job code (survey questions A7 and A18). (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. The 2023 NSCG collected subgroup information for the Asian category (Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, and Other Asian) and the Native Hawaiian or Other Pacific Islander category (Native Hawaiian, Chamorro, Samoan, and Other Pacific Islander). Those persons who indicate two or more races and are not of Hispanic or Latino ethnicity are reported as More than one race.

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

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 pre-college 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.

Years since highest degree. This measure is calculated as the difference between the year one's highest degree was earned and the survey year; hence, it is a whole number.

Underrepresented minority. Demographic groups that are underrepresented in science and engineering, relative to their numbers in the U.S. population: American Indian or Alaska Native, Black or African American, and Hispanic or Latino. For detailed data on racial and ethnic representation, see the 2023 NCSES report ***Diversity and STEM: Women, Minorities, and Persons with Disabilities: 2023***.

References

Opsomer J, Breidt FJ, White M, Li Y. 2016. Successive Difference Variance Estimation in Two-Phase Sampling. *Journal of Survey Statistics and Methodology*, 4(1): 43-70.

Ash S. 2014. Using Successive Difference Replication for Estimating Variances. *Survey Methodology,* 40 (1): 47-59.

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 A-1

Fields of study used in the 2023 NSCG data tables

(Crosswalk)

Broad field		Major field		Minor field		Detailed field	
Code	Label	Code	Label	Code	Label	Code	Label
1	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 science, studies
						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	Agricultural, animal, plant, veterinary science and related fields, other
				22	Biological sciences	226310	Biochemistry and biophysics
						226320	Biology, general
						226330	Botany and plant biology
						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, pathology, and related sciences (human and animal)
						226410	Zoology, animal biology
						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
				32	Earth, atmospheric, and ocean sciences	328720	Atmospheric sciences and meteorology
						328740	Geological and earth sciences, geosciences
						328760	Geological and earth sciences, other including ocean and marine sciences[a]
				33	Physics and astronomy	338710	Astronomy and astrophysics
						338780	Physics, except biophysics
				34	Other physical sciences	348790	Other physical sciences

TABLE A-1

Fields of study used in the 2023 NSCG data tables

(Crosswalk)

Broad field		Major field		Minor field		Detailed field	
Code	Label	Code	Label	Code	Label	Code	Label
		4	Social and related sciences	41	Economics	416010	Agricultural economics
						419230	Economics
				42	Political and related sciences	429020	Public policy analysis
						429270	International relations and national security studies
						429280	Political science and government
				43	Psychology	437040	Educational psychology
						438910	Clinical psychology
						438920	Counseling psychology
						438930	Experimental psychology
						438940	General psychology
						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	History and philosophy of science and technology
						459240	Geography
						459300	Other social sciences
		5	Engineering	51	Aerospace, aeronautical, and astronautical engineering	517210	Aerospace, aeronautical, and astronautical/ space engineering
				52	Chemical engineering	527250	Chemical engineering
				53	Civil and architectural engineering	537230	Architectural engineering
						537260	Civil engineering
				54	Electrical and computer engineering	547270	Computer engineering 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, environmental health engineering
						577310	Engineering, general
						577340	Materials engineering, including ceramics and textiles

TABLE A-1

Fields of study used in the 2023 NSCG data tables

(Crosswalk)

Broad field		Major field		Minor field		Detailed field	
Code	Label	Code	Label	Code	Label	Code	Label
						577360	Metallurgical engineering
						577380	Naval architecture and marine engineering
						577390	Nuclear engineering
						577400	Petroleum engineering
						577410	Other engineering, including geophysical, geological, mining and mineral[b]
2	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, pre-medical, pre-veterinary)
						617860	Medicine (dentistry, optometry, osteopathic, podiatry, veterinary)
						617870	Registered nursing, nursing administration, nursing research and clinical nursing
						617880	Pharmacy
						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, general science teacher education (includes biology, chemistry, earth science, physics, etc.)
						627120	Social science teacher education , including psychology 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
						637540	Other engineering-related technologies
				64	Other science and engineering-related fields	646100	Architecture/ environmental design
						646520	Actuarial science
3	Non-S&E fields	7	Non-S&E fields	71	Management and administration fields	716020	Agribusiness, agricultural business operations
						716510	Accounting
						716530	Business administration and management
						716540	Business, commerce, general
						716550	Business and managerial economics
						716570	Financial management
						716590	Other business management/ administrative services

TABLE A-1

Fields of study used in the 2023 NSCG data tables

(Crosswalk)

Broad field		Major field		Minor field		Detailed field	
Code	Label	Code	Label	Code	Label	Code	Label
				72	Education, except science and math teacher education	727010	Education administration and supervision
						727030	Counselor education/ school counseling and guidance services
						727050	Elementary education and teaching
						727070	Physical education teaching and coaching
						727080	Pre-school/ kindergarten/ early childhood teacher education
						727100	Secondary teacher education
						727110	Special education and teaching
						727130	Other education
				73	Social service and related fields	738620	Philosophy, religion, theology
						739100	Social work
				74	Sales and marketing fields	746560	Business marketing/ marketing management
						746580	Marketing research
				75	Art and humanities fields	757600	English language, literature and letters
						757720	Other foreign languages and literature
						758200	Liberal arts and sciences
						759260	History
						759410	Drama, theatre arts, and stagecraft
						759420	Fine and studio arts (all fields)
						759430	Music, all fields
						759440	Other visual and performing arts
				76	Other non-S&E fields	766610	Communications, general
						766620	Journalism
						766630	Other communications
						766820	Other conservation and natural resources
						766900	Criminal justice/ protective services
						768000	Family, consumer sciences and human sciences
						768100	Legal professions and studies
						768300	Library science
						768500	Parks, recreation, leisure, fitness, and kinesiology
						769010	Public administration
						769030	Public affairs
						769950	Other fields (not listed)

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

[a] In 2023, "Ocean sciences and marine sciences" was merged with "Geological and earth sciences, other" to form "Geological and earth sciences, other including ocean and marine sciences" (328760).
[b] In 2023, "Geophysical and geological engineering" and "Mining and minerals engineering" were merged with "Other engineering" to form "Other engineering, including geophysical, geological, mining and mineral" (577410).

Source(s):
National Center for Science and Engineering Statistics, National Survey of College Graduates, 2023.

TABLE A-2

Occupations used in the 2023 NSCG data tables

(Crosswalk)

Broad occupation		Major occupation		Minor occupation		Detailed occupation	
Code	Label	Code	Label	Code	Label	Code	Label
1	S&E occupations	1	Computer and mathematical scientists	11	Computer and information scientists	110510	Computer and information research scientists
						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
				12	Mathematical scientists	121720	Mathematicians
						121730	Operations research analysts
						121740	Statisticians
						121760	Other mathematical scientists
						121770	Data scientists
				18	Postsecondary teachers - computer and math sciences	182760	Postsecondary teachers - Computer sciences
						182860	Postsecondary teachers - Mathematical sciences
		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	Medical scientists (excluding practitioners)
						220270	Other life scientists
				23	Environmental life scientists	230240	Conservation scientists and foresters
				28	Postsecondary teachers - life and related sciences	282710	Postsecondary teachers - Agriculture
						282730	Postsecondary teachers - Biological sciences
						282970	Postsecondary teachers - Other life and physical sciences
		3	Physical and related scientists	31	Chemists, except biochemists	311930	Chemists, except biochemists
				32	Earth, atmospheric, and ocean scientists	321920	Atmospheric and space scientists
						321940	Environmental scientists and specialists
						321950	Geoscientists, including hydrologists and oceanographers
				33	Physicists	331960	Physicists, except biophysicists
				34	Other physical and related scientists, including astronomers	341980	Other physical scientists, including astronomers[a]
				38	Postsecondary teachers - physical and related sciences	382750	Postsecondary teachers - Chemistry
						382770	Postsecondary teachers - Atmospheric, earth, environmental, marine, and space sciences
						382890	Postsecondary teachers - Physics

TABLE A-2

Occupations used in the 2023 NSCG data tables

(Crosswalk)

Broad occupation		Major occupation		Minor occupation		Detailed occupation	
Code	Label	Code	Label	Code	Label	Code	Label
		4	Social and related scientists	41	Economists	412320	Economists
				42	Political scientists	422350	Political scientists
				43	Psychologists	432360	Psychologists - research and applied (e.g., industrial-organizational, experimental)
				44	Anthropologists	442310	Anthropologists and archeologists
				44	Sociologists	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, and astronautical engineers	510820	Aeronautical, aerospace, and astronautical engineers
				52	Chemical engineers	520850	Chemical engineers
				53	Civil, architectural, and sanitary engineers	530860	Civil engineers, including architectural and sanitary
				54	Electrical and computer hardware engineers	540870	Computer engineers, hardware
						540890	Electrical and electronics engineers
				55	Industrial engineers	550910	Industrial engineers, including health and safety
				56	Mechanical engineers	560940	Mechanical engineers
				57	Other engineers	570840	Bioengineers or biomedical engineers
						570900	Environmental engineers
						570920	Marine engineers and naval architects
						570930	Materials engineers
						570950	Mining and geological engineers, including mining safety engineers
						570960	Nuclear engineers
						570970	Petroleum engineers
						570980	Sales engineers
						570990	Other engineers, including agricultural[b]
				58	Postsecondary teachers - engineering	582800	Postsecondary teachers - Engineering
2	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
						611150	Psychologists - Health Services (e.g., clinical, counseling, school psychologists)
						612870	Postsecondary teachers - Health
				62	S&E managers	621420	Computer and information systems managers

TABLE A-2

Occupations used in the 2023 NSCG data tables

(Crosswalk)

Broad occupation		Major occupation		Minor occupation		Detailed occupation	
Code	Label	Code	Label	Code	Label	Code	Label
						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
						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
						641970	Technologists and technicians in the physical sciences
				65	Other S&E-related occupations	650810	Architects, except naval
						651710	Actuaries
3	Non-S&E occupations	7	Non-S&E occupations	71	Non-S&E managers	711410	Top-executives (e.g., chief executives, general and operations managers, legislators)
						711460	Education and childcare administrators
						711470	Other mid-level managers
				72	Management-related occupations	721510	Financial specialists (e.g., accountants, auditors)
						721520	Personnel, training, and labor relations specialists
						721530	Other management-related occupations
				73	Non-S&E precollege teachers	732510	Teachers: Preschool and kindergarten teachers
						732520	Teachers: Elementary and middle school teachers
						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
						742790	Postsecondary teachers - Education
						742810	Postsecondary teachers - English language and literature
						742820	Postsecondary teachers - Foreign language and literature
						742830	Postsecondary teachers - History
						742880	Postsecondary teachers - Recreation and fitness studies
						742990	Postsecondary teachers - Other postsecondary fields
				75	Social services and related occupations	750400	Clergy and other religious workers

TABLE A-2

Occupations used in the 2023 NSCG data tables

(Crosswalk)

Broad occupation		Major occupation		Minor occupation		Detailed occupation	
Code	Label	Code	Label	Code	Label	Code	Label
						750700	Counselors, educational, vocational, mental health, and substance abuse
						752400	Social workers
						752410	Miscellaneous community and social service specialists
				76	Sales and marketing occupations	762000	Sales representatives: services
						762010	Sales representatives: wholesale and manufacturing
						762020	Retail sales workers
						762030	Other marketing and sales occupations
				77	Art, humanities, and related occupations	770100	Writers, editors, public relations specialists, artists, entertainers, and broadcasters, and historians[c]
				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
						781250	Legal support workers (e.g., paralegals, legal assistants)
						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&E = science and engineering; NSCG = National Survey of College Graduates.

[a] In 2023, "Astronomers" were merged with "Other physical scientists" to form "Other physical scientists, including astronomers" (341980).
[b] In 2023, "Agricultural engineers" were merged with "Other engineers" to form "Other engineers, including agricultural" (570990).
[c] In 2023, "Historians" were merged with "Writers, editors, public relations specialists, artists, entertainers, and broadcasters" to form "Writers, editors, public relations specialists, artists, entertainers, and broadcasters, and historians" (770100).

Source(s):
National Center for Science and Engineering Statistics, National Survey of College Graduates, 2023.

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; Christina Freyman, NCSES Deputy Director; and John Finamore, NCSES Chief Statistician. Jock Black (NCSES) reviewed the report.

The Census Bureau, under National Science Foundation interagency agreement number NCSE-2233632, collected and tabulated the data for the NSCG. The statistical data tables were compiled by Greg Orlofsky (Census) and verified by Nguyen Tu Tran (DMI, under contract to 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). 2025. *National Survey of College Graduates: 2023*. NSF 25-322. Alexandria, VA: U.S. National Science Foundation. Available at https://ncses.nsf.gov/surveys/national-survey-college-graduates/2023.

Contact Us

Report Author

Lynn Milan
Survey Manager
NCSES
Tel: (703) 292-2275
E-mail: lmilan@nsf.gov

NCSES

National Center for Science and Engineering Statistics
Directorate for Social, Behavioral and Economic Sciences
U.S. 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