TABLE S3-17

Employed S&E highest degree holders, by race, ethnicity, and field of degree: 2017

(Number and percent)

Highest degree field	Total	Asian		American Indian or Alaska Native		Black or African American		Hispanic or Latino		White		Native Hawaiian or Other Pacific Islander		More than one race	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All S&E degrees	14,501,000	2,282,000	15.7	47,000	0.3	967,000	6.7	1,246,000	8.6	9,631,000	66.4	40,000	0.3	286,000	2.0
Computer and mathematical sciences	2,567,000	598,000	23.3	4,000	0.2	209,000	8.1	148,000	5.8	1,553,000	60.5	8,000	0.3	49,000	1.9
Computer and information sciences	2,017,000	485,000	24.0	3,000	0.1	176,000	8.7	111,000	5.5	1,192,000	59.1	7,000	0.3	42,000	2.1
Computer and information sciences, general	362,000	88,000	24.3	s	s	44,000	12.2	24,000	6.6	191,000	52.8	s	s	14,000	3.9
Computer sciences	1,065,000	315,000	29.6	s	s	67,000	6.3	48,000	4.5	617,000	57.9	s	s	14,000	1.3
Computer systems analysis	50,000	12,000	24.0	s	s	3,000	6.0	3,000	6.0	32,000	64.0	s	s	s	s
Information services and systems	418,000	54,000	12.9	s	s	45,000	10.8	32,000	7.7	270,000	64.6	5,000	1.2	11,000	2.6
Other computer and information sciences	122,000	15,000	12.3	s	s	16,000	13.1	5,000	4.1	82,000	67.2	s	s	3,000	2.5
Mathematics and statistics	550,000	113,000	20.5	s	s	32,000	5.8	36,000	6.5	361,000	65.6	1,000	0.2	7,000	1.3
Applied mathematics	58,000	12,000	20.7	s	s	5,000	8.6	3,000	5.2	35,000	60.3	s	s	s	s
Mathematics, general	371,000	64,000	17.3	s	s	21,000	5.7	19,000	5.1	262,000	70.6	s	s	4,000	1.1
Operations research	34,000	10,000	29.4	s	s	s	s	2,000	5.9	21,000	61.8	s	s	s	s
Statistics	64,000	25,000	39.1	s	s	s	s	3,000	4.7	31,000	48.4	s	s	s	s
Other mathematics	23,000	1,000	s	s	s	s	s	9,000	39.1	s	s	s	s	s	s
Biological, agricultural, and environmental life sciences	2,290,000	307,000	13.4	13,000	0.6	121,000	5.3	174,000	7.6	1,611,000	70.3	3,000	0.1	60,000	2.6
Agricultural and food sciences	286,000	23,000	8.0	s	s	6,000	2.1	18,000	6.3	233,000	81.5	s	s	s	s
Animal sciences	104,000	s	s	s	s	2,000	1.9	10,000	9.6	86,000	82.7	s	s	s	s
Food sciences and technology	33,000	6,000	18.2	s	s	1,000	3.0	1,000	s	24,000	72.7	s	s	s	s
Plant sciences	99,000	s	s	s	s	1,000	1.0	4,000	4.0	83,000	83.8	s	s	s	s
Other agricultural sciences	49,000	4,000	8.2	s	s	s	s	s	s	40,000	81.6	s	s	s	s
Biological sciences	1,763,000	278,000	15.8	11,000	0.6	111,000	6.3	134,000	7.6	1,175,000	66.6	2,000	0.1	52,000	2.9
Biochemistry and biophysics	131,000	34,000	26.0	s	s	5,000	3.8	7,000	5.3	83,000	63.4	s	s	2,000	1.5
Biology, general	861,000	106,000	12.3	s	s	68,000	7.9	73,000	8.5	570,000	66.2	1,000	s	38,000	4.4
Botany	17,000	4,000	23.5	s	s	s	s	s	s	11,000	64.7	s	s	s	s
Cell and molecular biology	109,000	28,000	25.7	s	s	s	s	20,000	18.3	54,000	49.5	s	s	3,000	2.8
Ecology	115,000	2,000	1.7	s	s	11,000	9.6	s	s	94,000	81.7	s	s	3,000	2.6
Genetics, animal and plant	26,000	5,000	19.2	s	s	s	s	1,000	3.8	19,000	73.1	s	s	s	s

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(Number and percent)

Highest degree field	Total	Asian		American Indian or Alaska Native		Black or African American		Hispanic or Latino		White		Native Hawaiian or Other Pacific Islander		More than one race	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Microbiological sciences and immunology	125,000	25,000	20.0	s	s	7,000	5.6	13,000	10.4	79,000	63.2	s	s	s	s
Nutritional sciences	88,000	15,000	17.0	s	s	s	s	2,000	2.3	55,000	62.5	s	s	s	s
Pharmacology, human and animal	24,000	6,000	25.0	s	s	s	s	s	s	17,000	70.8	s	s	s	s
Physiology and pathology, human and animal	62,000	21,000	33.9	s	s	s	s	3,000	4.8	35,000	56.5	s	s	s	s
Zoology, general	72,000	6,000	8.3	s	s	s	s	2,000	2.8	62,000	86.1	s	s	s	s
Other biological sciences	135,000	27,000	20.0	s	s	4,000	3.0	6,000	4.4	96,000	71.1	s	s	s	s
Environmental life sciences	241,000	6,000	2.5	1,000	0.4	5,000	2.1	23,000	9.5	203,000	84.2	s	s	4,000	1.7
Environmental science or studies	182,000	4,000	2.2	s	s	5,000	2.7	22,000	12.1	146,000	80.2	s	s	4,000	2.2
Forestry sciences	59,000	2,000	3.4	s	s	s	s	s	s	56,000	94.9	s	s	s	s
Physical and related sciences	814,000	129,000	15.8	s	s	38,000	4.7	50,000	6.1	583,000	71.6	s	s	11,000	1.4
Chemistry, except biochemistry	349,000	72,000	20.6	s	s	26,000	7.4	24,000	6.9	221,000	63.3	s	s	4,000	1.1
Earth, atmospheric, and ocean sciences	234,000	7,000	3.0	s	s	5,000	2.1	10,000	4.3	209,000	89.3	s	s	2,000	0.9
Atmospheric sciences and meteorology	28,000	1,000	3.6	s	s	s	s	s	s	26,000	92.9	s	s	s	s
Earth sciences	63,000	1,000	1.6	s	s	s	s	s	s	58,000	92.1	s	s	s	s
Geology	97,000	s	s	s	s	3,000	3.1	4,000	4.1	85,000	87.6	s	s	1,000	1.0
Geological sciences, other	36,000	1,000	2.8	s	s	s	s	s	s	31,000	86.1	s	s	s	s
Oceanography	10,000	s	s	s	s	s	s	s	s	8,000	80.0	s	s	s	s
Physics and astronomy	202,000	47,000	23.3	s	s	4,000	2.0	14,000	6.9	132,000	65.3	s	s	4,000	2.0
Astronomy and astrophysics	17,000	1,000	5.9	s	s	s	s	s	s	14,000	82.4	s	s	s	s
Physics	186,000	46,000	24.7	s	s	4,000	2.2	13,000	7.0	118,000	63.4	s	s	3,000	1.6
Other physical sciences	29,000	s	s	s	s	s	s	s	s	22,000	75.9	s	s	s	s
Other physical sciences	5,336,000	408,000	7.6	19,000	0.4	459,000	8.6	553,000	10.4	3,760,000	70.5	17,000	0.0	120,000	2.2
Science, unclassified	870,000	129,000	14.8	s	s	47,000	5.4	79,000	9.1	593,000	68.2	s	s	13,000	1.5
Social and related sciences	57,000	s	s	s	s	s	s	s	s	54,000	94.7	s	s	s	s
Economics	814,000	129,000	15.8	s	s	47,000	5.8	77,000	9.5	539,000	66.2	s	s	12,000	1.5
Agricultural economics	994,000	74,000	7.4	3,000	0.3	72,000	7.2	93,000	9.4	726,000	73.0	s	s	26,000	2.6
Economics	66,000	8,000	12.1	s	s	6,000	9.1	7,000	10.6	43,000	65.2	s	s	1,000	1.5
Political and related sciences	190,000	23,000	12.1	s	s	13,000	6.8	20,000	10.5	123,000	64.7	s	s	10,000	5.3

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		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Public policy studies	739,000	42,000	5.7	2,000	0.3	52,000	7.0	66,000	8.9	560,000	75.8	s	s	16,000	2.2
International relations	2,034,000	108,000	5.3	5,000	0.2	201,000	9.9	231,000	11.4	1,445,000	71.0	7,000	0.3	38,000	1.9
Political science and government	114,000	9,000	7.9	s	s	8,000	7.0	18,000	15.8	78,000	68.4	s	s	1,000	s
Psychology	239,000	16,000	6.7	s	s	16,000	6.7	30,000	12.6	171,000	71.5	s	s	6,000	2.5
Educational psychology	310,000	12,000	3.9	s	s	42,000	13.5	31,000	10.0	220,000	71.0	s	s	4,000	1.3
Clinical psychology	39,000	1,000	2.6	s	s	s	s	2,000	5.1	33,000	84.6	s	s	s	s
Counseling psychology	923,000	47,000	5.1	s	s	76,000	8.2	105,000	11.4	670,000	72.6	s	s	17,000	1.8
Experimental psychology	82,000	2,000	2.4	s	s	16,000	19.5	9,000	11.0	55,000	67.1	s	s	s	s
General psychology	118,000	6,000	5.1	s	s	10,000	8.5	11,000	9.3	88,000	74.6	s	s	3,000	2.5
Industrial and organizational psychology	208,000	16,000	7.7	s	s	31,000	14.9	25,000	12.0	129,000	62.0	s	s	6,000	2.9
Social psychology	838,000	40,000	4.8	4,000	0.5	103,000	12.3	97,000	11.6	566,000	67.5	s	s	26,000	3.1
Other psychology	191,000	3,000	1.6	s	s	11,000	5.8	11,000	5.8	154,000	80.6	s	s	9,000	4.7
Sociology and anthropology	78,000	s	s	s	s	4,000	5.1	12,000	15.4	49,000	62.8	s	s	s	s
Anthropology and archaeology	570,000	28,000	4.9	s	s	88,000	15.4	74,000	13.0	363,000	63.7	s	s	12,000	2.1
Criminology	600,000	58,000	9.7	3,000	0.5	36,000	6.0	53,000	8.8	430,000	71.7	s	s	17,000	2.8
Sociology	133,000	11,000	8.3	s	s	11,000	8.3	19,000	14.3	84,000	63.2	s	s	4,000	3.0
Other social sciences	79,000	10,000	12.7	s	s	s	s	4,000	5.1	62,000	78.5	s	s	s	s
Area and ethnic studies	29,000	s	s	s	s	s	s	s	s	s	s	s	s	s	s
Linguistics	137,000	11,000	8.0	s	s	s	s	9,000	6.6	103,000	75.2	s	s	s	s
Philosophy of science	6,000	s	s	s	s	s	s	s	s	5,000	83.3	s	s	s	s
Geography	216,000	9,000	4.2	s	s	15,000	6.9	21,000	9.7	167,000	77.3	s	s	3,000	1.4
History of science	3,494,000	841,000	24.1	10,000	0.3	140,000	4.0	322,000	9.2	2,125,000	60.8	10,000	0.3	46,000	1.3
Other social sciences	127,000	19,000	15.0	s	s	3,000	2.4	14,000	11.0	87,000	68.5	s	s	2,000	1.6
Engineering	220,000	46,000	20.9	s	s	10,000	4.5	13,000	5.9	149,000	67.7	s	s	3,000	1.4
Aerospace, aeronautical, and astronautical engineering	501,000	77,000	15.4	s	s	15,000	3.0	49,000	9.8	353,000	70.5	1,000	0.2	5,000	1.0
Chemical engineering	25,000	s	s	s	s	s	s	2,000	8.0	20,000	80.0	s	s	s	s
Civil and architectural engineering	476,000	75,000	15.8	s	s	14,000	2.9	48,000	10.1	333,000	70.0	1,000	0.2	4,000	0.8
Architectural engineering	1,264,000	460,000	36.4	3,000	0.2	60,000	4.7	104,000	8.2	618,000	48.9	4,000	0.3	15,000	1.2
Civil engineering	350,000	140,000	40.0	s	s	20,000	5.7	33,000	9.4	152,000	43.4	s	s	4,000	1.1
Electrical and computer engineering	914,000	320,000	35.0	3,000	0.3	40,000	4.4	71,000	7.8	466,000	51.0	3,000	0.3	10,000	1.1

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		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Computer and systems engineering	214,000	34,000	15.9	s	s	16,000	7.5	38,000	17.8	123,000	57.5	s	s	s	s
Electrical, electronics, and communications engineering	214,000	34,000	15.9	s	s	16,000	7.5	38,000	17.8	123,000	57.5	s	s	s	s
Industrial and manufacturing engineering	689,000	122,000	17.7	4,000	0.6	22,000	3.2	70,000	10.2	459,000	66.6	1,000	0.1	10,000	1.5
Mechanical engineering	479,000	82,000	17.1	s	s	15,000	3.1	33,000	6.9	336,000	70.1	s	s	8,000	1.7
Other engineering	30,000	1,000	3.3	s	s	s	s	1,000	s	27,000	90.0	s	s	s	s
Agricultural engineering	58,000	18,000	31.0	s	s	1,000	s	8,000	13.8	29,000	50.0	s	s	2,000	3.4
Bioengineering and biomedical engineering	33,000	6,000	18.2	s	s	s	s	2,000	6.1	23,000	69.7	s	s	s	s
Engineering sciences, mechanics, and physics	66,000	10,000	15.2	s	s	s	s	5,000	7.6	48,000	72.7	s	s	s	s
Environmental engineering	36,000	2,000	5.6	s	s	2,000	5.6	2,000	5.6	28,000	77.8	s	s	s	s
Engineering, general	13,000	1,000	7.7	s	s	s	s	s	s	9,000	69.2	s	s	s	s
Geophysical and geological engineering	71,000	14,000	19.7	s	s	1,000	1.4	1,000	1.4	52,000	73.2	s	s	s	s
Materials engineering, including ceramics and textiles	9,000	s	s	s	s	s	s	s	s	7,000	77.8	s	s	s	s
Metallurgical engineering	11,000	s	s	s	s	s	s	s	s	8,000	72.7	s	s	s	s
Mining and minerals engineering	11,000	s	s	s	s	s	s	s	s	10,000	90.9	s	s	s	s
Naval architecture and marine engineering	20,000	s	s	s	s	s	s	s	s	17,000	85.0	s	s	s	s
Nuclear engineering	23,000	4,000	17.4	s	s	5,000	21.7	s	s	14,000	60.9	s	s	s	s
Petroleum engineering	98,000	20,000	20.4	s	s	2,000	2.0	10,000	10.2	64,000	65.3	s	s	1,000	1.0
Other engineering	96,000	19,000	19.8	s	s	3,000	310.0	6,000	6.3	67,000	69.8	s	s	s	s

s = suppressed for reasons of confidentiality and/or reliability.

Note(s)

Hispanic may be any race; race categories exclude Hispanic origin. Detail may not add to total because of rounding. Numbers are rounded to the nearest 1,000. Percentages are based on rounded numbers.

Source(s)

National Center for Science and Engineering Statistics, National Science Foundation, National Survey of College Graduates (NSCG), 2017.