

TABLE 9-5

Employed scientists and engineers, by occupation, highest degree level, and sex: 2017

(Number)

Occupation	All degrees ^a			Bachelor's			Master's			Doctorate		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
All occupations	27,273,000	13,002,000	14,271,000	15,198,000	7,197,000	8,001,000	8,236,000	4,246,000	3,990,000	1,503,000	590,000	913,000
S&E occupations	6,769,000	1,966,000	4,803,000	3,846,000	979,000	2,867,000	2,069,000	670,000	1,399,000	786,000	279,000	507,000
Science occupations	5,041,000	1,697,000	3,344,000	2,786,000	831,000	1,955,000	1,521,000	567,000	954,000	670,000	263,000	406,000
Biological/life scientist	610,000	292,000	319,000	230,000	119,000	110,000	149,000	75,000	74,000	217,000	90,000	127,000
Agricultural/food science	41,000	13,000	28,000	18,000	5,000	12,000	13,000	5,000	8,000	10,000	3,000	7,000
Biological/scientist	455,000	225,000	231,000	183,000	101,000	82,000	108,000	56,000	52,000	153,000	63,000	90,000
Forestry and conservation scientist	27,000	7,000	20,000	15,000	3,000	12,000	11,000	3,000	S	1,000	S	1,000
Postsecondary teacher	87,000	46,000	40,000	S	S	5,000	17,000	10,000	7,000	53,000	24,000	28,000
Computer and information scientist	3,128,000	796,000	2,332,000	2,100,000	515,000	1,585,000	921,000	253,000	669,000	95,000	24,000	72,000
Computer/information scientist	3,096,000	787,000	2,309,000	2,096,000	515,000	1,581,000	911,000	248,000	663,000	78,000	20,000	58,000
Postsecondary teacher	32,000	9,000	23,000	4,000	S	4,000	10,000	4,000	6,000	17,000	4,000	13,000
Mathematical scientist	292,000	123,000	168,000	119,000	55,000	64,000	117,000	45,000	72,000	55,000	23,000	32,000
Mathematical scientist	209,000	87,000	122,000	108,000	48,000	60,000	75,000	29,000	46,000	25,000	10,000	15,000
Postsecondary teacher	82,000	36,000	47,000	11,000	7,000	4,000	42,000	16,000	26,000	30,000	13,000	17,000
Physical scientist	366,000	107,000	259,000	164,000	49,000	115,000	98,000	39,000	59,000	101,000	19,000	82,000
Chemist, except biochemist	109,000	39,000	70,000	63,000	26,000	37,000	26,000	10,000	16,000	20,000	4,000	17,000
Earth scientist/geologist/oceanographer	69,000	17,000	53,000	28,000	6,000	22,000	29,000	7,000	22,000	11,000	3,000	8,000
Physicist/astronomer	42,000	8,000	34,000	9,000	S	7,000	12,000	3,000	8,000	21,000	2,000	18,000
Other physical scientist	65,000	29,000	36,000	35,000	12,000	22,000	21,000	14,000	7,000	8,000	2,000	6,000
Postsecondary teachers	81,000	14,000	67,000	29,000	S	27,000	10,000	4,000	6,000	41,000	7,000	34,000
Psychologist	250,000	173,000	77,000	33,000	25,000	8,000	102,000	78,000	24,000	92,000	54,000	37,000
Psychologist	199,000	138,000	61,000	18,000	12,000	5,000	86,000	66,000	20,000	75,000	46,000	29,000
Postsecondary teacher	51,000	35,000	16,000	S	S	S	16,000	12,000	4,000	16,000	8,000	8,000
Social scientist	396,000	206,000	190,000	139,000	67,000	S	133,000	77,000	56,000	110,000	53,000	56,000
Economist	47,000	10,000	38,000	S	2,000	S	14,000	5,000	9,000	10,000	2,000	8,000
Political scientist	33,000	21,000	11,000	12,000	S	S	12,000	5,000	6,000	2,000	D	1,000
Sociologist/anthropologist	24,000	17,000	7,000	6,000	S	2,000	13,000	9,000	4,000	5,000	4,000	1,000
Other social scientist	159,000	90,000	69,000	89,000	46,000	S	55,000	36,000	19,000	14,000	8,000	6,000
Postsecondary teacher	133,000	68,000	64,000	9,000	5,000	4,000	40,000	22,000	17,000	79,000	38,000	41,000
Engineering occupations	1,728,000	269,000	1,459,000	1,061,000	149,000	912,000	548,000	104,000	445,000	116,000	16,000	101,000
Aerospace engineer	132,000	21,000	111,000	69,000	13,000	57,000	54,000	7,000	46,000	8,000	D	7,000
Chemical engineer	93,000	23,000	70,000	59,000	14,000	45,000	22,000	S	15,000	11,000	1,000	10,000
Civil engineer	264,000	45,000	219,000	169,000	24,000	146,000	91,000	22,000	69,000	4,000	D	4,000
Electrical engineer	374,000	47,000	327,000	215,000	26,000	189,000	138,000	19,000	120,000	20,000	2,000	18,000
Industrial engineer	88,000	14,000	74,000	57,000	9,000	48,000	28,000	4,000	24,000	2,000	D	D
Mechanical engineer	313,000	21,000	291,000	219,000	12,000	208,000	80,000	8,000	72,000	12,000	S	11,000

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(Number)

Occupation	All degrees ^a			Bachelor's			Master's			Doctorate		
	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male	Both sexes	Female	Male
Other engineer	406,000	88,000	317,000	259,000	50,000	210,000	122,000	35,000	87,000	24,000	4,000	20,000
Postsecondary teacher	59,000	9,000	50,000	12,000	S	10,000	12,000	2,000	11,000	35,000	6,000	29,000
S&E-related occupations	8,271,000	4,764,000	3,507,000	4,338,000	2,654,000	1,685,000	2,262,000	1,405,000	857,000	267,000	126,000	140,000
Health occupations	5,181,000	3,663,000	1,518,000	2,671,000	2,137,000	533,000	1,066,000	877,000	189,000	166,000	98,000	68,000
S&E managers, including health	1,048,000	288,000	761,000	515,000	121,000	394,000	383,000	128,000	255,000	46,000	14,000	32,000
S&E pre-college teacher	961,000	553,000	408,000	400,000	227,000	173,000	527,000	317,000	210,000	22,000	7,000	15,000
S&E technician/technologist	837,000	180,000	657,000	586,000	113,000	473,000	209,000	59,000	150,000	32,000	7,000	25,000
Other S&E-related occupation	244,000	80,000	163,000	166,000	56,000	111,000	77,000	25,000	52,000	S	D	D
Non-S&E occupations	12,233,000	6,271,000	5,962,000	7,014,000	3,564,000	3,450,000	3,904,000	2,170,000	1,734,000	450,000	184,000	266,000
Arts, humanities, and related occupation	385,000	237,000	149,000	217,000	134,000	83,000	137,000	85,000	52,000	22,000	15,000	8,000
Management-related occupation	2,256,000	1,077,000	1,179,000	1,346,000	669,000	677,000	795,000	367,000	428,000	65,000	17,000	48,000
Non-S&E manager	2,018,000	610,000	1,408,000	1,022,000	266,000	757,000	795,000	273,000	522,000	131,000	41,000	91,000
Non-S&E postsecondary teacher	226,000	117,000	109,000	40,000	25,000	15,000	81,000	46,000	34,000	88,000	40,000	48,000
Non-S&E precollege teacher	902,000	726,000	176,000	421,000	329,000	92,000	454,000	381,000	73,000	11,000	8,000	2,000
Sales and marketing occupation	1,425,000	656,000	769,000	1,065,000	490,000	575,000	322,000	152,000	171,000	13,000	4,000	9,000
Social service and related occupation	967,000	716,000	252,000	373,000	264,000	109,000	552,000	432,000	120,000	30,000	15,000	15,000
Other non-S&E occupation	4,054,000	2,133,000	1,921,000	2,530,000	1,387,000	1,143,000	769,000	435,000	334,000	90,000	45,000	45,000

D = suppressed for data confidentiality reasons. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

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

Note(s)

Numbers are rounded to nearest 1,000. Detail may not add to total because of rounding and suppression. Scientists and engineers are individuals under the age of 76 who have a bachelor's or higher degree, are living in the United States, and have an S&E or S&E-related degree or occupation.

Source(s)

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