

TABLE 8. Employed U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2008

Level and field of highest degree	Employed scientists and engineers	Sex		Hispanic or Latino	Not Hispanic or Latino				
		Male	Female		American Indian or Alaska Native	Black or African American			
						Asian	White	Other <sup>a</sup>	
All levels and fields <sup>b</sup>	19,244,000	10,683,000	8,561,000	1,074,000	77,000	2,038,000	1,107,000	14,555,000	393,000
S&E fields	10,216,000	6,389,000	3,827,000	602,000	39,000	1,303,000	539,000	7,493,000	239,000
Sciences	7,763,000	4,255,000	3,508,000	458,000	33,000	832,000	464,000	5,790,000	186,000
Biological/agricultural/environmental life sciences	1,569,000	845,000	724,000	87,000	7,000	158,000	62,000	1,224,000	31,000
Agricultural sciences	266,000	168,000	98,000	11,000	S	15,000	6,000	227,000	6,000
Biological sciences	1,125,000	558,000	567,000	71,000	4,000	135,000	54,000	840,000	22,000
Environmental life sciences	178,000	119,000	59,000	5,000	1,000	7,000	3,000	158,000	4,000
Computer/mathematical sciences	1,651,000	1,144,000	507,000	73,000	8,000	336,000	98,000	1,107,000	29,000
Computer/information sciences	1,159,000	841,000	317,000	59,000	8,000	273,000	71,000	725,000	22,000
Mathematics/statistics	492,000	302,000	190,000	13,000	*	63,000	26,000	382,000	7,000
Physical/related sciences	665,000	482,000	183,000	31,000	2,000	94,000	19,000	507,000	11,000
Chemistry, except biochemistry	306,000	199,000	107,000	16,000	S	56,000	11,000	216,000	6,000
Earth/atmospheric/ocean sciences	168,000	130,000	38,000	6,000	*	7,000	1,000	151,000	2,000
Physics/astronomy	150,000	128,000	23,000	6,000	*	29,000	4,000	109,000	2,000
Other physical sciences	40,000	24,000	16,000	4,000	D	2,000	4,000	30,000	S
Social/related sciences	3,878,000	1,785,000	2,094,000	267,000	16,000	243,000	284,000	2,952,000	114,000
Economics	580,000	426,000	155,000	29,000	*	86,000	20,000	431,000	14,000
Political/related sciences	705,000	423,000	283,000	43,000	2,000	42,000	54,000	545,000	20,000
Psychology	1,414,000	436,000	977,000	109,000	6,000	55,000	111,000	1,094,000	39,000
Sociology/anthropology	763,000	301,000	462,000	54,000	5,000	36,000	66,000	572,000	29,000
Other social sciences	416,000	199,000	217,000	32,000	S	25,000	33,000	312,000	12,000
Engineering	2,453,000	2,134,000	319,000	145,000	6,000	472,000	75,000	1,703,000	53,000
Aerospace/aeronautical/astronautical engineering	81,000	75,000	6,000	5,000	1,000	7,000	2,000	63,000	4,000
Chemical engineering	165,000	127,000	38,000	9,000	2,000	34,000	5,000	113,000	3,000
Civil/architectural engineering	397,000	342,000	55,000	30,000	1,000	52,000	12,000	291,000	11,000
Electrical/computer engineering	808,000	715,000	93,000	47,000	1,000	226,000	31,000	483,000	20,000
Industrial engineering	139,000	111,000	29,000	13,000	D	23,000	7,000	95,000	2,000
Mechanical engineering	500,000	460,000	39,000	23,000	1,000	70,000	12,000	385,000	8,000
Other engineering	363,000	305,000	58,000	19,000	*	58,000	7,000	273,000	5,000
S&E-related fields	4,727,000	1,892,000	2,834,000	253,000	20,000	461,000	280,000	3,623,000	91,000
Health	3,784,000	1,254,000	2,531,000	205,000	16,000	388,000	230,000	2,867,000	79,000
Science/mathematics teacher education	308,000	135,000	173,000	10,000	D	11,000	15,000	267,000	3,000
Technology/technical fields	306,000	263,000	43,000	18,000	D	37,000	20,000	224,000	5,000
Other S&E-related fields	328,000	241,000	87,000	19,000	D	26,000	15,000	264,000	3,000
Non-S&E fields	4,302,000	2,403,000	1,899,000	219,000	19,000	274,000	288,000	3,439,000	63,000
Arts/humanities	308,000	169,000	139,000	16,000	D	19,000	4,000	265,000	4,000
Education, except science/mathematics teacher education	948,000	343,000	605,000	52,000	6,000	28,000	75,000	775,000	12,000

TABLE 8. Employed U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2008

Level and field of highest degree	Employed scientists and engineers	Sex		Hispanic or Latino	Not Hispanic or Latino				
		Male	Female		American Indian or Alaska Native	Black or African American			
						Asian	White	Other <sup>a</sup>	
Management/administration	1,417,000	1,012,000	405,000	72,000	7,000	150,000	89,000	1,079,000	20,000
Sales/marketing	150,000	94,000	56,000	7,000	D	11,000	7,000	122,000	S
Social services/related	354,000	145,000	209,000	19,000	1,000	10,000	39,000	279,000	6,000
Other non-S&E fields	1,125,000	640,000	485,000	53,000	4,000	54,000	74,000	919,000	20,000
Bachelor's degrees	10,745,000	5,905,000	4,840,000	640,000	49,000	980,000	646,000	8,168,000	262,000
S&E fields	7,367,000	4,580,000	2,787,000	476,000	31,000	726,000	425,000	5,516,000	192,000
Sciences	5,658,000	3,075,000	2,583,000	364,000	26,000	488,000	366,000	4,262,000	152,000
Biological/agricultural/environmental life sciences	1,144,000	600,000	544,000	69,000	5,000	90,000	51,000	905,000	24,000
Agricultural sciences	217,000	136,000	81,000	9,000	S	10,000	4,000	189,000	4,000
Biological sciences	791,000	371,000	419,000	56,000	3,000	76,000	45,000	593,000	17,000
Environmental life sciences	137,000	94,000	43,000	5,000	1,000	4,000	2,000	123,000	S
Computer/mathematical sciences	1,161,000	800,000	361,000	60,000	7,000	164,000	77,000	829,000	24,000
Computer/information sciences	809,000	591,000	218,000	49,000	6,000	131,000	57,000	547,000	18,000
Mathematics/statistics	352,000	209,000	142,000	11,000	D	33,000	20,000	281,000	6,000
Physical/related sciences	395,000	275,000	120,000	23,000	2,000	41,000	13,000	309,000	8,000
Chemistry, except biochemistry	194,000	118,000	76,000	13,000	S	26,000	8,000	142,000	5,000
Earth/atmospheric/ocean sciences	100,000	79,000	21,000	4,000	*	2,000	1,000	92,000	1,000
Physics/astronomy	68,000	57,000	11,000	3,000	*	12,000	2,000	50,000	1,000
Other physical sciences	33,000	21,000	12,000	4,000	D	1,000	S	25,000	D
Social/related sciences	2,958,000	1,399,000	1,559,000	211,000	13,000	192,000	226,000	2,220,000	96,000
Economics	495,000	366,000	129,000	25,000	D	72,000	18,000	368,000	13,000
Political/related sciences	562,000	340,000	222,000	36,000	1,000	31,000	45,000	431,000	18,000
Psychology	901,000	278,000	623,000	79,000	4,000	41,000	78,000	671,000	28,000
Sociology/anthropology	678,000	260,000	418,000	46,000	5,000	31,000	59,000	509,000	27,000
Other social sciences	322,000	154,000	168,000	25,000	S	17,000	26,000	241,000	10,000
Engineering	1,709,000	1,505,000	204,000	113,000	5,000	238,000	59,000	1,254,000	40,000
Aerospace/aeronautical/astronautical engineering	54,000	50,000	4,000	4,000	D	3,000	2,000	43,000	2,000
Chemical engineering	121,000	91,000	30,000	7,000	S	17,000	3,000	90,000	3,000
Civil/architectural engineering	292,000	255,000	37,000	25,000	1,000	28,000	9,000	221,000	8,000
Electrical/computer engineering	547,000	494,000	53,000	37,000	1,000	117,000	26,000	350,000	16,000
Industrial engineering	101,000	79,000	21,000	10,000	D	10,000	5,000	75,000	1,000
Mechanical engineering	389,000	361,000	28,000	19,000	1,000	42,000	10,000	311,000	6,000
Other engineering	205,000	174,000	30,000	12,000	D	20,000	4,000	165,000	3,000
S&E-related fields	2,406,000	773,000	1,633,000	129,000	12,000	201,000	161,000	1,849,000	54,000
Health	1,782,000	308,000	1,474,000	93,000	9,000	157,000	132,000	1,345,000	47,000
Science/mathematics teacher education	138,000	70,000	68,000	5,000	D	4,000	2,000	125,000	D
Technology/technical fields	257,000	223,000	34,000	16,000	D	22,000	16,000	196,000	5,000
Other S&E-related fields	229,000	173,000	56,000	14,000	D	18,000	11,000	183,000	2,000

TABLE 8. Employed U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2008

Level and field of highest degree	Employed scientists and engineers	Sex		Hispanic or Latino	Not Hispanic or Latino				
		Male	Female		American Indian or Alaska Native	Black or African American			
						Asian	White	Other <sup>a</sup>	
Non-S&E fields	971,000	552,000	420,000	34,000	5,000	53,000	59,000	803,000	16,000
Arts/humanities	197,000	119,000	78,000	6,000	D	8,000	3,000	177,000	2,000
Education, except science/mathematics teacher education	157,000	54,000	103,000	4,000	D	5,000	10,000	134,000	S
Management/administration	385,000	261,000	124,000	15,000	D	33,000	27,000	301,000	7,000
Sales/marketing	48,000	27,000	21,000	2,000	D	D	S	42,000	D
Social services/related	31,000	18,000	12,000	D	D	D	4,000	25,000	D
Other non-S&E fields	154,000	73,000	81,000	6,000	D	6,000	13,000	124,000	3,000
Master's degrees	5,690,000	2,937,000	2,753,000	292,000	21,000	687,000	350,000	4,251,000	90,000
S&E fields	2,085,000	1,274,000	811,000	101,000	6,000	426,000	93,000	1,421,000	38,000
Sciences	1,481,000	769,000	712,000	73,000	5,000	245,000	79,000	1,052,000	27,000
Biological/agricultural/environmental life sciences	219,000	110,000	109,000	10,000	S	26,000	7,000	171,000	5,000
Agricultural sciences	31,000	17,000	13,000	2,000	D	2,000	S	24,000	S
Biological sciences	154,000	72,000	82,000	8,000	*	21,000	4,000	118,000	2,000
Environmental life sciences	34,000	21,000	14,000	*	D	3,000	1,000	29,000	S
Computer/mathematical sciences	430,000	293,000	137,000	11,000	S	156,000	20,000	237,000	5,000
Computer/information sciences	326,000	230,000	96,000	10,000	D	134,000	14,000	163,000	4,000
Mathematics/statistics	104,000	63,000	41,000	1,000	D	22,000	6,000	74,000	1,000
Physical/related sciences	129,000	91,000	38,000	5,000	*	24,000	4,000	94,000	2,000
Chemistry, except biochemistry	41,000	25,000	17,000	1,000	D	14,000	2,000	24,000	1,000
Earth/atmospheric/ocean sciences	50,000	36,000	13,000	1,000	*	3,000	*	44,000	1,000
Physics/astronomy	34,000	28,000	6,000	2,000	D	7,000	1,000	23,000	*
Other physical sciences	5,000	2,000	3,000	D	D	D	S	4,000	D
Social/related sciences	703,000	274,000	428,000	47,000	3,000	38,000	49,000	551,000	15,000
Economics	61,000	41,000	20,000	3,000	D	11,000	2,000	45,000	S
Political/related sciences	121,000	67,000	55,000	7,000	D	9,000	8,000	95,000	2,000
Psychology	385,000	104,000	282,000	24,000	1,000	10,000	27,000	313,000	10,000
Sociology/anthropology	58,000	28,000	30,000	7,000	S	3,000	6,000	40,000	S
Other social sciences	77,000	35,000	42,000	6,000	*	5,000	6,000	58,000	1,000
Engineering	604,000	505,000	99,000	29,000	1,000	181,000	14,000	369,000	11,000
Aerospace/aeronautical/astronautical engineering	20,000	19,000	2,000	S	D	3,000	*	15,000	1,000
Chemical engineering	27,000	20,000	6,000	1,000	D	11,000	1,000	13,000	*
Civil/architectural engineering	93,000	76,000	17,000	5,000	D	20,000	2,000	63,000	2,000
Electrical/computer engineering	219,000	184,000	36,000	9,000	D	91,000	4,000	112,000	3,000
Industrial engineering	34,000	28,000	7,000	3,000	D	11,000	2,000	18,000	*
Mechanical engineering	92,000	82,000	10,000	3,000	D	21,000	2,000	64,000	2,000
Other engineering	119,000	97,000	22,000	6,000	*	25,000	3,000	83,000	2,000

TABLE 8. Employed U.S. scientists and engineers, by level and field of highest degree, sex, ethnicity, and race: 2008

Level and field of highest degree	Employed scientists and engineers	Sex		Hispanic or Latino	Not Hispanic or Latino					
		Male	Female		American Indian or Alaska Native	Black or African American			White	Other <sup>a</sup>
						Asian				
S&E-related fields	1,105,000	314,000	791,000	49,000	3,000	81,000	69,000	884,000	19,000	
Health	802,000	151,000	652,000	37,000	3,000	55,000	49,000	645,000	14,000	
Science/mathematics teacher education	162,000	61,000	101,000	5,000	D	6,000	13,000	134,000	3,000	
Technology/technical fields	46,000	37,000	9,000	2,000	D	13,000	3,000	27,000	D	
Other S&E-related fields	95,000	65,000	30,000	5,000	D	7,000	4,000	78,000	S	
Non-S&E fields	2,501,000	1,349,000	1,152,000	142,000	12,000	180,000	188,000	1,946,000	33,000	
Arts/humanities	95,000	42,000	53,000	8,000	D	11,000	D	75,000	1,000	
Education, except science/math teacher education	730,000	261,000	470,000	44,000	4,000	21,000	58,000	594,000	9,000	
Management/administration	1,017,000	739,000	278,000	57,000	5,000	112,000	61,000	768,000	12,000	
Sales/marketing	100,000	66,000	34,000	5,000	D	9,000	5,000	80,000	D	
Social services/related	291,000	101,000	189,000	17,000	1,000	8,000	34,000	226,000	5,000	
Other non-S&E fields	268,000	140,000	128,000	11,000	D	19,000	29,000	204,000	5,000	
Doctoral degrees	934,000	632,000	302,000	35,000	2,000	171,000	34,000	682,000	11,000	
S&E fields	742,000	529,000	214,000	23,000	1,000	151,000	21,000	537,000	9,000	
Sciences	603,000	405,000	197,000	20,000	1,000	99,000	18,000	457,000	7,000	
Biological/agricultural/environmental life sciences	206,000	134,000	72,000	7,000	*	42,000	5,000	149,000	3,000	
Agricultural sciences	19,000	15,000	4,000	1,000	D	3,000	1,000	14,000	*	
Biological sciences	180,000	114,000	66,000	6,000	*	38,000	4,000	129,000	2,000	
Environmental life sciences	7,000	5,000	2,000	*	D	1,000	*	6,000	D	
Computer/mathematical sciences	60,000	50,000	10,000	1,000	D	16,000	2,000	41,000	*	
Computer/information sciences	24,000	21,000	3,000	*	D	8,000	1,000	15,000	*	
Mathematics/statistics	37,000	30,000	7,000	1,000	D	8,000	1,000	26,000	*	
Physical/related sciences	140,000	116,000	25,000	3,000	*	29,000	2,000	104,000	2,000	
Chemistry, except biochemistry	71,000	56,000	14,000	2,000	*	16,000	1,000	50,000	1,000	
Earth/atmospheric/ocean sciences	19,000	15,000	4,000	*	D	2,000	*	16,000	*	
Physics/astronomy	48,000	43,000	5,000	1,000	D	10,000	1,000	36,000	*	
Other physical sciences	2,000	2,000	1,000	D	D	*	D	2,000	D	
Social/related sciences	196,000	105,000	91,000	8,000	1,000	12,000	10,000	163,000	3,000	
Economics	24,000	18,000	6,000	1,000	D	4,000	1,000	18,000	*	
Political/related sciences	22,000	16,000	6,000	1,000	*	1,000	1,000	18,000	*	
Psychology	106,000	48,000	58,000	4,000	*	4,000	5,000	91,000	1,000	
Sociology/anthropology	27,000	14,000	14,000	1,000	*	1,000	2,000	23,000	1,000	
Other social sciences	17,000	10,000	7,000	1,000	*	2,000	1,000	13,000	*	
Engineering	140,000	123,000	16,000	3,000	*	52,000	3,000	80,000	1,000	
Aerospace/aeronautical/astronautical engineering	7,000	6,000	*	*	D	2,000	*	5,000	D	
Chemical engineering	18,000	15,000	2,000	1,000	D	6,000	1,000	10,000	*	
Civil/architectural engineering	12,000	11,000	1,000	*	D	4,000	*	7,000	D	
Electrical/computer engineering	42,000	37,000	4,000	1,000	D	18,000	1,000	21,000	1,000	

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Level and field of highest degree	Employed scientists and engineers	Sex		Hispanic or Latino	Not Hispanic or Latino				
		Male	Female		American Indian or Alaska Native	Black or African American			Other <sup>a</sup>
						Asian	White	Other <sup>a</sup>	
Industrial engineering	4,000	3,000	1,000	*	D	2,000	*	2,000	D
Mechanical engineering	19,000	17,000	1,000	*	D	8,000	*	10,000	*
Other engineering	39,000	33,000	6,000	1,000	D	13,000	1,000	24,000	*
S&E-related fields	66,000	32,000	34,000	4,000	*	10,000	4,000	47,000	1,000
Health	50,000	22,000	28,000	4,000	*	8,000	3,000	34,000	1,000
Science/mathematics teacher education	8,000	4,000	4,000	D	D	D	1,000	7,000	D
Technology/technical fields	4,000	3,000	D	D	D	2,000	D	2,000	D
Other S&E-related fields	4,000	S	1,000	D	D	D	D	3,000	D
Non-S&E fields	126,000	71,000	55,000	8,000	D	9,000	9,000	98,000	2,000
Arts/humanities	16,000	8,000	8,000	S	D	*	D	13,000	D
Education, except science/mathematics teacher education	58,000	27,000	31,000	3,000	D	1,000	7,000	46,000	1,000
Management/administration	15,000	12,000	3,000	D	D	5,000	D	8,000	D
Sales/marketing	2,000	1,000	D	D	D	D	D	D	D
Social services/related	19,000	14,000	5,000	D	D	1,000	1,000	15,000	D
Other non-S&E fields	17,000	9,000	8,000	S	D	*	D	15,000	D

\* = value < 500. D = suppressed to avoid disclosure of confidential information. S = suppressed for reliability; coefficient of variation exceeds publication standards.

S&E = science and engineering.

<sup>a</sup>"Other" includes Native Hawaiian or Other Pacific Islander and Not Hispanic or Latino respondents reporting two or more races.

<sup>b</sup>Total includes professional degrees not broken out separately.

NOTES: Scientists and engineers include any person who has ever received bachelor's or higher degree in S&E or S&E-related field through 30 June 2007, plus any person holding non-S&E bachelor's or higher degree who was employed in S&E or S&E-related occupation on 1 October 2003. See <http://sestat.nsf.gov/docs/ed03maj.html> for detailed description of educational field classification. Numbers are rounded to nearest thousand. Detail may not add to total because of rounding.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Scientists and Engineers Statistical Data System (SESTAT): 2008.