

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
All degree levels and occupations ^a	19,244,000	13,434,000	1,443,000	2,016,000	2,352,000
U.S. citizen	18,423,000	12,818,000	1,307,000	1,982,000	2,315,000
Native-born	16,177,000	11,124,000	1,136,000	1,844,000	2,073,000
Naturalized	2,245,000	1,695,000	171,000	138,000	242,000
Non-U.S. citizen	822,000	615,000	136,000	34,000	37,000
Permanent resident	596,000	458,000	75,000	31,000	33,000
Temporary resident	225,000	157,000	61,000	3,000	4,000
S&E occupations	4,874,000	3,455,000	647,000	150,000	621,000
U.S. citizen	4,451,000	3,149,000	548,000	148,000	607,000
Native-born	3,731,000	2,599,000	471,000	135,000	527,000
Naturalized	720,000	550,000	77,000	13,000	80,000
Non-U.S. citizen	423,000	307,000	100,000	3,000	14,000
Permanent resident	263,000	200,000	51,000	2,000	10,000
Temporary resident	160,000	107,000	48,000	S	3,000
Science occupations	3,292,000	2,158,000	574,000	146,000	415,000
U.S. citizen	2,987,000	1,947,000	491,000	143,000	405,000
Native-born	2,504,000	1,585,000	425,000	131,000	362,000
Naturalized	483,000	362,000	66,000	12,000	43,000
Non-U.S. citizen	305,000	210,000	83,000	3,000	10,000
Permanent resident	198,000	143,000	45,000	2,000	8,000
Temporary resident	108,000	67,000	38,000	S	2,000
Biological/agricultural/other life scientists	498,000	185,000	187,000	14,000	111,000
U.S. citizen	444,000	165,000	156,000	14,000	109,000
Native-born	375,000	131,000	132,000	13,000	99,000
Naturalized	69,000	34,000	24,000	1,000	10,000
Non-U.S. citizen	54,000	20,000	32,000	*	3,000
Permanent resident	38,000	15,000	21,000	*	2,000
Temporary resident	16,000	5,000	10,000	D	*
Agricultural/food scientists	62,000	33,000	14,000	D	15,000
U.S. citizen	58,000	32,000	11,000	D	15,000
Native-born	54,000	29,000	11,000	D	15,000
Naturalized	4,000	3,000	*	D	*
Non-U.S. citizen	4,000	1,000	2,000	D	D
Permanent resident	3,000	1,000	S	D	D
Temporary resident	1,000	*	1,000	D	D
Biological/medical scientists	331,000	143,000	116,000	*	71,000
U.S. citizen	288,000	126,000	93,000	*	69,000
Native-born	233,000	96,000	77,000	*	60,000
Naturalized	55,000	30,000	16,000	D	9,000
Non-U.S. citizen	43,000	17,000	23,000	D	2,000
Permanent resident	30,000	13,000	15,000	D	2,000
Temporary resident	13,000	4,000	8,000	D	*
Environmental life scientists	35,000	8,000	2,000	D	24,000
U.S. citizen	33,000	7,000	1,000	D	24,000
Native-born	31,000	7,000	1,000	D	23,000
Naturalized	S	D	D	D	S
Non-U.S. citizen	S	S	S	D	D
Permanent resident	S	D	D	D	D
Temporary resident	D	D	D	D	D

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Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Postsecondary teachers-life/related sciences	70,000	*	55,000	13,000	S
U.S. citizen	65,000	*	50,000	13,000	S
Native-born	56,000	*	43,000	12,000	S
Naturalized	9,000	D	8,000	1,000	D
Non-U.S. citizen	5,000	D	5,000	*	D
Permanent resident	4,000	D	4,000	*	D
Temporary resident	1,000	D	1,000	D	D
Computer/mathematical scientists	1,970,000	1,587,000	159,000	55,000	170,000
U.S. citizen	1,773,000	1,418,000	137,000	54,000	164,000
Native-born	1,436,000	1,133,000	117,000	47,000	140,000
Naturalized	337,000	286,000	20,000	7,000	25,000
Non-U.S. citizen	196,000	168,000	22,000	1,000	6,000
Permanent resident	127,000	112,000	10,000	1,000	4,000
Temporary resident	69,000	56,000	12,000	D	1,000
Computer/information scientists	1,778,000	1,520,000	90,000	28,000	141,000
U.S. citizen	1,604,000	1,360,000	81,000	27,000	136,000
Native-born	1,293,000	1,085,000	71,000	24,000	113,000
Naturalized	311,000	275,000	10,000	4,000	23,000
Non-U.S. citizen	175,000	160,000	9,000	D	5,000
Permanent resident	117,000	108,000	4,000	D	4,000
Temporary resident	58,000	52,000	5,000	D	1,000
Mathematical scientists	107,000	66,000	12,000	1,000	28,000
U.S. citizen	96,000	58,000	10,000	S	27,000
Native-born	82,000	48,000	8,000	D	25,000
Naturalized	15,000	11,000	2,000	D	2,000
Non-U.S. citizen	11,000	8,000	3,000	D	1,000
Permanent resident	5,000	4,000	1,000	D	D
Temporary resident	6,000	4,000	2,000	D	D
Postsecondary teachers-computer/mathematical sciences	84,000	1,000	57,000	26,000	S
U.S. citizen	73,000	1,000	47,000	25,000	S
Native-born	62,000	S	38,000	22,000	S
Naturalized	11,000	D	9,000	3,000	D
Non-U.S. citizen	11,000	D	10,000	1,000	D
Permanent resident	6,000	D	5,000	*	D
Temporary resident	5,000	D	5,000	D	D
Physical/related scientists	322,000	173,000	80,000	8,000	61,000
U.S. citizen	293,000	159,000	66,000	8,000	60,000
Native-born	252,000	133,000	57,000	7,000	55,000
Naturalized	40,000	26,000	9,000	S	5,000
Non-U.S. citizen	29,000	14,000	14,000	*	1,000
Permanent resident	19,000	11,000	7,000	D	1,000
Temporary resident	10,000	3,000	7,000	D	*
Chemists, except biochemists	129,000	100,000	13,000	D	16,000
U.S. citizen	116,000	90,000	10,000	D	16,000
Native-born	90,000	69,000	8,000	D	14,000
Naturalized	25,000	21,000	2,000	D	2,000
Non-U.S. citizen	13,000	10,000	3,000	D	*
Permanent resident	10,000	8,000	1,000	D	D
Temporary resident	3,000	1,000	2,000	D	D

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Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Earth/atmospheric/ocean scientists	78,000	44,000	10,000	D	24,000
U.S. citizen	74,000	43,000	8,000	D	23,000
Native-born	70,000	40,000	7,000	D	22,000
Naturalized	4,000	2,000	1,000	D	1,000
Non-U.S. citizen	4,000	2,000	2,000	D	*
Permanent resident	2,000	1,000	1,000	D	*
Temporary resident	2,000	1,000	1,000	D	D
Physicists/astronomers	27,000	11,000	11,000	D	5,000
U.S. citizen	22,000	10,000	7,000	D	5,000
Native-born	19,000	8,000	6,000	D	4,000
Naturalized	3,000	2,000	1,000	D	1,000
Non-U.S. citizen	5,000	2,000	3,000	D	*
Permanent resident	2,000	1,000	1,000	D	*
Temporary resident	3,000	*	3,000	D	*
Postsecondary teachers-physical/related sciences	54,000	S	45,000	8,000	D
U.S. citizen	48,000	S	39,000	8,000	D
Native-born	42,000	D	34,000	7,000	D
Naturalized	6,000	D	6,000	S	D
Non-U.S. citizen	6,000	D	6,000	*	D
Permanent resident	4,000	D	4,000	D	D
Temporary resident	2,000	D	2,000	D	D
Other physical/related scientists	35,000	17,000	2,000	D	16,000
U.S. citizen	33,000	16,000	1,000	D	16,000
Native-born	32,000	15,000	1,000	D	15,000
Naturalized	2,000	1,000	D	D	S
Non-U.S. citizen	1,000	1,000	1,000	D	D
Permanent resident	1,000	*	D	D	D
Temporary resident	1,000	*	*	D	D
Social/related scientists	502,000	213,000	148,000	69,000	73,000
U.S. citizen	477,000	204,000	133,000	68,000	72,000
Native-born	441,000	188,000	120,000	64,000	69,000
Naturalized	36,000	16,000	13,000	4,000	3,000
Non-U.S. citizen	26,000	9,000	15,000	1,000	1,000
Permanent resident	13,000	6,000	6,000	S	S
Temporary resident	12,000	3,000	9,000	D	*
Economists	29,000	14,000	5,000	D	10,000
U.S. citizen	26,000	12,000	4,000	D	10,000
Native-born	23,000	10,000	3,000	D	10,000
Naturalized	2,000	1,000	1,000	D	*
Non-U.S. citizen	4,000	2,000	1,000	D	*
Permanent resident	1,000	1,000	*	D	*
Temporary resident	3,000	1,000	1,000	D	D
Political/related scientists	17,000	8,000	4,000	D	5,000
U.S. citizen	16,000	8,000	3,000	D	5,000
Native-born	15,000	7,000	3,000	D	5,000
Naturalized	S	D	D	D	D
Non-U.S. citizen	1,000	S	1,000	D	D
Permanent resident	*	D	*	D	D
Temporary resident	1,000	D	S	D	D

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Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Postsecondary teachers-social/related sciences	116,000	1,000	95,000	20,000	*
U.S. citizen	106,000	1,000	86,000	19,000	*
Native-born	98,000	1,000	78,000	19,000	*
Naturalized	8,000	D	7,000	*	D
Non-U.S. citizen	10,000	D	9,000	*	D
Permanent resident	4,000	D	4,000	*	D
Temporary resident	5,000	D	5,000	D	D
Psychologists	185,000	90,000	27,000	48,000	21,000
U.S. citizen	180,000	88,000	25,000	47,000	21,000
Native-born	166,000	81,000	21,000	44,000	20,000
Naturalized	14,000	6,000	4,000	3,000	1,000
Non-U.S. citizen	5,000	2,000	2,000	D	D
Permanent resident	3,000	2,000	S	D	D
Temporary resident	1,000	D	1,000	D	D
Sociologists/anthropologists	21,000	10,000	6,000	1,000	4,000
U.S. citizen	20,000	9,000	6,000	1,000	4,000
Native-born	19,000	9,000	6,000	1,000	4,000
Naturalized	1,000	S	*	D	*
Non-U.S. citizen	1,000	*	*	D	D
Permanent resident	*	D	*	D	D
Temporary resident	1,000	D	*	D	D
Other social/related scientists	134,000	90,000	11,000	1,000	32,000
U.S. citizen	129,000	87,000	9,000	1,000	32,000
Native-born	120,000	80,000	9,000	1,000	30,000
Naturalized	9,000	7,000	*	D	2,000
Non-U.S. citizen	5,000	4,000	1,000	D	D
Permanent resident	4,000	3,000	S	D	D
Temporary resident	2,000	1,000	1,000	D	D
Engineering occupations	1,582,000	1,298,000	74,000	5,000	206,000
U.S. citizen	1,465,000	1,201,000	57,000	5,000	202,000
Native-born	1,228,000	1,013,000	45,000	4,000	165,000
Naturalized	237,000	188,000	11,000	1,000	37,000
Non-U.S. citizen	117,000	97,000	17,000	D	4,000
Permanent resident	66,000	56,000	6,000	D	3,000
Temporary resident	52,000	40,000	11,000	D	1,000
Aerospace/aeronautical/astronautical engineers	100,000	80,000	2,000	D	18,000
U.S. citizen	97,000	78,000	1,000	D	18,000
Native-born	85,000	67,000	1,000	D	16,000
Naturalized	13,000	11,000	*	D	2,000
Non-U.S. citizen	3,000	2,000	1,000	D	D
Permanent resident	2,000	2,000	*	D	D
Temporary resident	1,000	*	1,000	D	D
Chemical engineers	77,000	70,000	4,000	D	3,000
U.S. citizen	72,000	65,000	3,000	D	3,000
Native-born	60,000	54,000	3,000	D	2,000
Naturalized	12,000	11,000	*	D	S
Non-U.S. citizen	5,000	5,000	1,000	D	D
Permanent resident	4,000	4,000	*	D	D
Temporary resident	2,000	1,000	*	D	D

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Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Civil/architectural/sanitary engineers	258,000	173,000	3,000	D	81,000
U.S. citizen	246,000	164,000	3,000	D	79,000
Native-born	207,000	144,000	2,000	D	61,000
Naturalized	39,000	21,000	*	D	18,000
Non-U.S. citizen	11,000	9,000	1,000	D	2,000
Permanent resident	6,000	5,000	D	D	1,000
Temporary resident	5,000	4,000	1,000	D	*
Electrical/computer hardware engineers	399,000	352,000	9,000	1,000	37,000
U.S. citizen	355,000	311,000	7,000	1,000	36,000
Native-born	268,000	234,000	5,000	D	28,000
Naturalized	87,000	77,000	1,000	D	8,000
Non-U.S. citizen	44,000	41,000	2,000	D	D
Permanent resident	25,000	24,000	1,000	D	D
Temporary resident	19,000	17,000	2,000	D	D
Industrial engineers	93,000	89,000	1,000	D	4,000
U.S. citizen	86,000	82,000	1,000	D	4,000
Native-born	72,000	68,000	1,000	D	4,000
Naturalized	14,000	14,000	D	D	D
Non-U.S. citizen	7,000	7,000	*	D	D
Permanent resident	3,000	3,000	D	D	D
Temporary resident	4,000	4,000	*	D	D
Mechanical engineers	300,000	272,000	8,000	D	20,000
U.S. citizen	282,000	256,000	6,000	D	20,000
Native-born	246,000	224,000	6,000	D	17,000
Naturalized	36,000	32,000	1,000	D	3,000
Non-U.S. citizen	18,000	16,000	2,000	D	*
Permanent resident	10,000	10,000	D	D	D
Temporary resident	8,000	6,000	2,000	D	*
Postsecondary teachers-engineering	35,000	D	31,000	3,000	*
U.S. citizen	28,000	D	24,000	3,000	*
Native-born	21,000	D	17,000	3,000	*
Naturalized	7,000	D	7,000	D	D
Non-U.S. citizen	7,000	D	7,000	D	D
Permanent resident	4,000	D	4,000	D	D
Temporary resident	3,000	D	3,000	D	D
Other engineers	320,000	262,000	15,000	D	43,000
U.S. citizen	299,000	245,000	12,000	D	42,000
Native-born	269,000	222,000	10,000	D	37,000
Naturalized	30,000	23,000	1,000	D	5,000
Non-U.S. citizen	21,000	17,000	3,000	D	1,000
Permanent resident	11,000	9,000	1,000	D	1,000
Temporary resident	10,000	8,000	2,000	D	*
S&E-related occupations	5,542,000	3,856,000	394,000	769,000	522,000
U.S. citizen	5,389,000	3,741,000	376,000	758,000	514,000
Native-born	4,682,000	3,203,000	321,000	713,000	446,000
Naturalized	707,000	538,000	56,000	45,000	68,000
Non-U.S. citizen	153,000	115,000	18,000	12,000	8,000
Permanent resident	124,000	95,000	12,000	11,000	7,000
Temporary resident	29,000	21,000	6,000	S	D

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Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Health occupations	3,780,000	2,914,000	343,000	164,000	359,000
U.S. citizen	3,690,000	2,847,000	329,000	161,000	353,000
Native-born	3,176,000	2,440,000	281,000	154,000	301,000
Naturalized	514,000	407,000	48,000	7,000	52,000
Non-U.S. citizen	90,000	67,000	14,000	S	6,000
Permanent resident	76,000	58,000	9,000	S	6,000
Temporary resident	14,000	9,000	5,000	D	D
S&E managers, including health	501,000	393,000	21,000	5,000	83,000
U.S. citizen	484,000	377,000	19,000	5,000	83,000
Native-born	425,000	328,000	17,000	4,000	77,000
Naturalized	59,000	49,000	3,000	D	7,000
Non-U.S. citizen	18,000	16,000	1,000	D	D
Permanent resident	16,000	15,000	1,000	D	D
Temporary resident	2,000	2,000	D	D	D
S&E precollege teachers	599,000	S	1,000	594,000	S
U.S. citizen	590,000	S	1,000	585,000	S
Native-born	555,000	S	1,000	549,000	S
Naturalized	36,000	D	D	36,000	D
Non-U.S. citizen	9,000	D	D	9,000	D
Permanent resident	8,000	D	D	8,000	D
Temporary resident	S	D	D	S	D
S&E technicians/technologists	446,000	351,000	27,000	6,000	61,000
U.S. citizen	421,000	330,000	25,000	6,000	60,000
Native-born	352,000	275,000	19,000	5,000	53,000
Naturalized	68,000	55,000	5,000	D	7,000
Non-U.S. citizen	25,000	21,000	3,000	D	S
Permanent resident	16,000	14,000	1,000	D	S
Temporary resident	9,000	8,000	2,000	D	D
Other S&E-related occupations	216,000	197,000	3,000	D	15,000
U.S. citizen	204,000	186,000	S	D	15,000
Native-born	175,000	159,000	D	D	12,000
Naturalized	30,000	27,000	D	D	2,000
Non-U.S. citizen	11,000	11,000	D	D	D
Permanent resident	9,000	9,000	D	D	D
Temporary resident	3,000	3,000	D	D	D
Non-S&E occupations	8,828,000	6,122,000	401,000	1,096,000	1,209,000
U.S. citizen	8,582,000	5,929,000	383,000	1,077,000	1,194,000
Native-born	7,764,000	5,322,000	345,000	997,000	1,100,000
Naturalized	819,000	607,000	38,000	80,000	94,000
Non-U.S. citizen	246,000	193,000	18,000	19,000	15,000
Permanent resident	209,000	164,000	12,000	19,000	15,000
Temporary resident	37,000	30,000	7,000	1,000	D
Arts/humanities/related occupations	295,000	241,000	20,000	11,000	22,000
U.S. citizen	283,000	231,000	20,000	11,000	22,000
Native-born	262,000	214,000	19,000	10,000	20,000
Naturalized	21,000	17,000	S	D	2,000
Non-U.S. citizen	11,000	10,000	*	D	D
Permanent resident	10,000	8,000	D	D	D
Temporary resident	2,000	S	D	D	D

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Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Management-related occupations	1,309,000	1,036,000	51,000	22,000	199,000
U.S. citizen	1,258,000	988,000	50,000	22,000	198,000
Native-born	1,101,000	855,000	41,000	21,000	183,000
Naturalized	156,000	133,000	9,000	S	14,000
Non-U.S. citizen	52,000	49,000	1,000	D	2,000
Permanent resident	40,000	37,000	S	D	S
Temporary resident	12,000	12,000	D	D	D
Non-S&E managers	1,261,000	941,000	63,000	108,000	148,000
U.S. citizen	1,224,000	907,000	62,000	108,000	146,000
Native-born	1,110,000	812,000	55,000	105,000	138,000
Naturalized	114,000	95,000	7,000	3,000	8,000
Non-U.S. citizen	37,000	34,000	1,000	D	D
Permanent resident	33,000	30,000	1,000	D	D
Temporary resident	4,000	4,000	D	D	D
Non-S&E postsecondary teachers	157,000	11,000	115,000	30,000	2,000
U.S. citizen	148,000	10,000	106,000	29,000	2,000
Native-born	134,000	9,000	96,000	27,000	2,000
Naturalized	14,000	D	10,000	3,000	D
Non-U.S. citizen	9,000	D	8,000	D	D
Permanent resident	6,000	D	6,000	D	D
Temporary resident	3,000	D	3,000	D	D
Non-S&E precollege/other teachers	745,000	27,000	2,000	708,000	9,000
U.S. citizen	728,000	26,000	2,000	692,000	8,000
Native-born	671,000	23,000	2,000	639,000	7,000
Naturalized	56,000	3,000	D	53,000	D
Non-U.S. citizen	17,000	D	D	16,000	D
Permanent resident	17,000	D	D	15,000	D
Temporary resident	*	D	D	*	D
Sales/marketing occupations	1,357,000	1,338,000	8,000	5,000	6,000
U.S. citizen	1,320,000	1,301,000	8,000	5,000	6,000
Native-born	1,194,000	1,177,000	8,000	5,000	4,000
Naturalized	125,000	123,000	D	D	D
Non-U.S. citizen	38,000	38,000	D	D	D
Permanent resident	34,000	34,000	D	D	D
Temporary resident	4,000	4,000	D	D	D
Social services/related occupations	725,000	392,000	37,000	119,000	177,000
U.S. citizen	715,000	384,000	37,000	119,000	175,000
Native-born	663,000	359,000	33,000	109,000	162,000
Naturalized	52,000	25,000	4,000	10,000	13,000
Non-U.S. citizen	10,000	7,000	1,000	D	S
Permanent resident	9,000	7,000	D	D	S
Temporary resident	1,000	D	D	D	D
Other non-S&E occupations	2,979,000	2,136,000	105,000	93,000	645,000
U.S. citizen	2,908,000	2,081,000	98,000	91,000	637,000
Native-born	2,628,000	1,873,000	91,000	81,000	583,000
Naturalized	280,000	208,000	7,000	10,000	54,000
Non-U.S. citizen	71,000	55,000	7,000	S	8,000
Permanent resident	61,000	46,000	4,000	S	8,000
Temporary resident	11,000	8,000	2,000	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Bachelor's degrees, all occupations	10,745,000	8,095,000	508,000	795,000	1,347,000
U.S. citizen	10,446,000	7,853,000	483,000	777,000	1,333,000
Native-born	9,314,000	6,969,000	429,000	714,000	1,201,000
Naturalized	1,132,000	884,000	54,000	63,000	131,000
Non-U.S. citizen	299,000	242,000	25,000	18,000	15,000
Permanent resident	250,000	204,000	15,000	16,000	14,000
Temporary resident	49,000	37,000	10,000	D	*
S&E occupations	2,720,000	2,115,000	201,000	38,000	365,000
U.S. citizen	2,613,000	2,027,000	186,000	38,000	362,000
Native-born	2,288,000	1,760,000	172,000	35,000	322,000
Naturalized	325,000	267,000	15,000	4,000	40,000
Non-U.S. citizen	106,000	88,000	15,000	D	3,000
Permanent resident	80,000	70,000	7,000	D	3,000
Temporary resident	26,000	18,000	7,000	D	*
Science occupations	1,726,000	1,286,000	178,000	36,000	226,000
U.S. citizen	1,652,000	1,227,000	165,000	36,000	224,000
Native-born	1,439,000	1,051,000	152,000	33,000	204,000
Naturalized	213,000	176,000	13,000	3,000	21,000
Non-U.S. citizen	74,000	59,000	13,000	D	2,000
Permanent resident	56,000	48,000	6,000	D	1,000
Temporary resident	17,000	11,000	7,000	D	D
Biological/agricultural/other life scientists	198,000	80,000	58,000	S	57,000
U.S. citizen	189,000	76,000	53,000	S	57,000
Native-born	172,000	67,000	49,000	S	54,000
Naturalized	17,000	9,000	4,000	D	3,000
Non-U.S. citizen	9,000	3,000	5,000	D	D
Permanent resident	6,000	3,000	4,000	D	D
Temporary resident	2,000	D	2,000	D	D
Agricultural/food scientists	36,000	20,000	5,000	D	11,000
U.S. citizen	35,000	20,000	4,000	D	11,000
Native-born	34,000	19,000	4,000	D	11,000
Naturalized	D	D	D	D	D
Non-U.S. citizen	D	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Biological/medical scientists	125,000	54,000	41,000	D	30,000
U.S. citizen	119,000	52,000	37,000	D	30,000
Native-born	104,000	43,000	34,000	D	27,000
Naturalized	15,000	9,000	3,000	D	3,000
Non-U.S. citizen	6,000	2,000	4,000	D	D
Permanent resident	4,000	2,000	2,000	D	D
Temporary resident	2,000	D	2,000	D	D
Environmental life scientists	22,000	6,000	D	D	16,000
U.S. citizen	21,000	5,000	D	D	16,000
Native-born	20,000	5,000	D	D	16,000
Naturalized	D	D	D	D	D
Non-U.S. citizen	D	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Postsecondary teachers-life/related sciences	15,000	D	12,000	S	D
U.S. citizen	15,000	D	12,000	S	D
Native-born	14,000	D	11,000	S	D
Naturalized	D	D	D	D	D
Non-U.S. citizen	D	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Computer/mathematical scientists	1,261,000	1,054,000	67,000	25,000	115,000
U.S. citizen	1,203,000	1,002,000	64,000	25,000	113,000
Native-born	1,030,000	851,000	59,000	22,000	98,000
Naturalized	174,000	151,000	5,000	3,000	15,000
Non-U.S. citizen	58,000	52,000	4,000	D	2,000
Permanent resident	46,000	43,000	S	D	1,000
Temporary resident	12,000	10,000	2,000	D	D
Computer/information scientists	1,206,000	1,028,000	55,000	20,000	102,000
U.S. citizen	1,150,000	976,000	53,000	20,000	100,000
Native-born	981,000	828,000	50,000	18,000	86,000
Naturalized	169,000	148,000	3,000	3,000	14,000
Non-U.S. citizen	55,000	52,000	1,000	D	2,000
Permanent resident	45,000	43,000	D	D	1,000
Temporary resident	10,000	9,000	D	D	D
Mathematical scientists	41,000	26,000	3,000	D	12,000
U.S. citizen	40,000	26,000	2,000	D	12,000
Native-born	36,000	23,000	2,000	D	12,000
Naturalized	3,000	3,000	D	D	D
Non-U.S. citizen	D	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Postsecondary teachers-computer/mathematical sciences	15,000	D	10,000	4,000	D
U.S. citizen	13,000	D	8,000	4,000	D
Native-born	12,000	D	7,000	4,000	D
Naturalized	1,000	D	1,000	D	D
Non-U.S. citizen	2,000	D	2,000	D	D
Permanent resident	D	D	D	D	D
Temporary resident	2,000	D	2,000	D	D
Physical/related scientists	144,000	89,000	21,000	D	34,000
U.S. citizen	141,000	86,000	19,000	D	34,000
Native-born	127,000	75,000	18,000	D	33,000
Naturalized	14,000	11,000	1,000	D	1,000
Non-U.S. citizen	4,000	2,000	1,000	D	D
Permanent resident	3,000	2,000	*	D	D
Temporary resident	1,000	D	1,000	D	D
Chemists, except biochemists	74,000	58,000	6,000	D	10,000
U.S. citizen	71,000	56,000	5,000	D	10,000
Native-born	60,000	46,000	5,000	D	9,000
Naturalized	12,000	10,000	D	D	1,000
Non-U.S. citizen	2,000	2,000	1,000	D	D
Permanent resident	2,000	S	D	D	D
Temporary resident	1,000	D	1,000	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Earth/atmospheric/ocean scientists	36,000	21,000	3,000	D	12,000
U.S. citizen	35,000	21,000	3,000	D	12,000
Native-born	34,000	20,000	2,000	D	12,000
Naturalized	1,000	1,000	D	D	D
Non-U.S. citizen	*	*	D	D	D
Permanent resident	*	*	D	D	D
Temporary resident	D	D	D	D	D
Physicists/astronomers	5,000	1,000	3,000	D	1,000
U.S. citizen	4,000	1,000	2,000	D	1,000
Native-born	4,000	1,000	2,000	D	1,000
Naturalized	D	D	D	D	D
Non-U.S. citizen	1,000	D	*	D	D
Permanent resident	D	D	D	D	D
Temporary resident	*	D	*	D	D
Postsecondary teachers-physical/related sciences	9,000	D	9,000	D	D
U.S. citizen	9,000	D	9,000	D	D
Native-born	9,000	D	8,000	D	D
Naturalized	*	D	*	D	D
Non-U.S. citizen	*	D	*	D	D
Permanent resident	D	D	D	D	D
Temporary resident	*	D	*	D	D
Other physical/related scientists	21,000	9,000	D	D	11,000
U.S. citizen	21,000	9,000	D	D	11,000
Native-born	20,000	9,000	D	D	11,000
Naturalized	D	D	D	D	D
Non-U.S. citizen	D	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Social/related scientists	122,000	63,000	32,000	8,000	20,000
U.S. citizen	119,000	63,000	29,000	8,000	20,000
Native-born	111,000	58,000	27,000	7,000	19,000
Naturalized	9,000	4,000	2,000	D	1,000
Non-U.S. citizen	3,000	D	2,000	D	D
Permanent resident	2,000	D	D	D	D
Temporary resident	1,000	D	1,000	D	D
Economists	6,000	2,000	S	D	3,000
U.S. citizen	6,000	2,000	S	D	3,000
Native-born	6,000	2,000	D	D	3,000
Naturalized	D	D	D	D	D
Non-U.S. citizen	D	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Political/related scientists	6,000	S	2,000	D	S
U.S. citizen	5,000	S	1,000	D	S
Native-born	4,000	D	1,000	D	S
Naturalized	D	D	D	D	D
Non-U.S. citizen	D	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Postsecondary teachers-social/related sciences	16,000	D	12,000	3,000	D
U.S. citizen	14,000	D	11,000	3,000	D
Native-born	14,000	D	11,000	3,000	D
Naturalized	D	D	D	D	D
Non-U.S. citizen	1,000	D	1,000	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Psychologists	19,000	5,000	9,000	4,000	D
U.S. citizen	19,000	5,000	9,000	4,000	D
Native-born	16,000	5,000	7,000	3,000	D
Naturalized	3,000	D	2,000	D	D
Non-U.S. citizen	D	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Sociologists/anthropologists	7,000	4,000	2,000	D	D
U.S. citizen	7,000	4,000	2,000	D	D
Native-born	6,000	3,000	2,000	D	D
Naturalized	D	D	D	D	D
Non-U.S. citizen	D	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Other social/related scientists	69,000	49,000	5,000	D	14,000
U.S. citizen	68,000	49,000	5,000	D	14,000
Native-born	64,000	46,000	5,000	D	13,000
Naturalized	4,000	3,000	D	D	D
Non-U.S. citizen	1,000	D	D	D	D
Permanent resident	1,000	D	D	D	D
Temporary resident	D	D	D	D	D
Engineering occupations	994,000	829,000	23,000	3,000	139,000
U.S. citizen	961,000	800,000	21,000	3,000	137,000
Native-born	849,000	710,000	19,000	2,000	118,000
Naturalized	112,000	90,000	2,000	D	19,000
Non-U.S. citizen	33,000	29,000	2,000	D	2,000
Permanent resident	24,000	21,000	S	D	1,000
Temporary resident	9,000	8,000	1,000	D	D
Aerospace/aeronautical/astronautical engineers	57,000	47,000	1,000	D	9,000
U.S. citizen	56,000	46,000	1,000	D	9,000
Native-born	51,000	42,000	1,000	D	8,000
Naturalized	5,000	5,000	D	D	*
Non-U.S. citizen	1,000	1,000	D	D	D
Permanent resident	1,000	1,000	D	D	D
Temporary resident	D	D	D	D	D
Chemical engineers	45,000	40,000	S	D	2,000
U.S. citizen	44,000	39,000	S	D	2,000
Native-born	40,000	35,000	S	D	2,000
Naturalized	5,000	4,000	D	D	D
Non-U.S. citizen	1,000	1,000	D	D	D
Permanent resident	1,000	S	D	D	D
Temporary resident	*	D	D	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Civil/architectural/sanitary engineers	176,000	114,000	1,000	D	61,000
U.S. citizen	173,000	113,000	1,000	D	60,000
Native-born	152,000	102,000	1,000	D	50,000
Naturalized	21,000	11,000	D	D	10,000
Non-U.S. citizen	3,000	2,000	D	D	1,000
Permanent resident	2,000	1,000	D	D	D
Temporary resident	1,000	1,000	D	D	D
Electrical/computer hardware engineers	240,000	212,000	3,000	D	25,000
U.S. citizen	227,000	199,000	3,000	D	25,000
Native-born	186,000	164,000	2,000	D	19,000
Naturalized	41,000	35,000	D	D	5,000
Non-U.S. citizen	13,000	13,000	D	D	D
Permanent resident	11,000	10,000	D	D	D
Temporary resident	3,000	3,000	D	D	D
Industrial engineers	68,000	65,000	D	D	3,000
U.S. citizen	64,000	61,000	D	D	3,000
Native-born	54,000	51,000	D	D	3,000
Naturalized	11,000	11,000	D	D	D
Non-U.S. citizen	4,000	4,000	D	D	D
Permanent resident	2,000	2,000	D	D	D
Temporary resident	S	S	D	D	D
Mechanical engineers	198,000	180,000	5,000	D	13,000
U.S. citizen	192,000	175,000	4,000	D	13,000
Native-born	176,000	160,000	4,000	D	12,000
Naturalized	17,000	15,000	D	D	1,000
Non-U.S. citizen	6,000	5,000	*	D	D
Permanent resident	4,000	4,000	D	D	D
Temporary resident	2,000	1,000	D	D	D
Postsecondary teachers-engineering	6,000	D	4,000	1,000	D
U.S. citizen	6,000	D	4,000	1,000	D
Native-born	5,000	D	3,000	1,000	D
Naturalized	S	D	D	D	D
Non-U.S. citizen	*	D	*	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Other engineers	204,000	170,000	7,000	D	26,000
U.S. citizen	199,000	166,000	6,000	D	26,000
Native-born	186,000	156,000	6,000	D	24,000
Naturalized	12,000	10,000	*	D	2,000
Non-U.S. citizen	5,000	4,000	D	D	D
Permanent resident	4,000	3,000	D	D	D
Temporary resident	S	S	D	D	D
S&E-related occupations	2,910,000	2,125,000	156,000	319,000	311,000
U.S. citizen	2,843,000	2,071,000	152,000	311,000	309,000
Native-born	2,509,000	1,818,000	127,000	292,000	272,000
Naturalized	334,000	254,000	25,000	19,000	36,000
Non-U.S. citizen	68,000	53,000	4,000	8,000	S
Permanent resident	59,000	47,000	3,000	6,000	S
Temporary resident	9,000	7,000	S	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Health occupations	1,899,000	1,488,000	127,000	70,000	213,000
U.S. citizen	1,860,000	1,458,000	124,000	67,000	212,000
Native-born	1,628,000	1,275,000	103,000	64,000	185,000
Naturalized	232,000	182,000	20,000	D	26,000
Non-U.S. citizen	38,000	31,000	3,000	D	D
Permanent resident	36,000	29,000	S	D	D
Temporary resident	3,000	S	D	D	D
S&E managers, including health	265,000	221,000	6,000	S	36,000
U.S. citizen	259,000	215,000	6,000	S	35,000
Native-born	236,000	196,000	5,000	S	33,000
Naturalized	24,000	19,000	D	D	3,000
Non-U.S. citizen	6,000	6,000	D	D	D
Permanent resident	6,000	6,000	D	D	D
Temporary resident	D	D	D	D	D
S&E precollege teachers	244,000	D	D	241,000	D
U.S. citizen	239,000	D	D	236,000	D
Native-born	225,000	D	D	222,000	D
Naturalized	14,000	D	D	14,000	D
Non-U.S. citizen	5,000	D	D	5,000	D
Permanent resident	4,000	D	D	4,000	D
Temporary resident	D	D	D	D	D
S&E technicians/technologists	355,000	280,000	20,000	5,000	51,000
U.S. citizen	343,000	269,000	19,000	5,000	50,000
Native-born	298,000	233,000	16,000	4,000	45,000
Naturalized	45,000	35,000	4,000	D	5,000
Non-U.S. citizen	12,000	11,000	S	D	D
Permanent resident	9,000	8,000	D	D	D
Temporary resident	3,000	3,000	D	D	D
Other S&E-related occupations	148,000	135,000	3,000	D	9,000
U.S. citizen	142,000	130,000	D	D	9,000
Native-born	123,000	113,000	D	D	7,000
Naturalized	19,000	17,000	D	D	D
Non-U.S. citizen	6,000	6,000	D	D	D
Permanent resident	4,000	4,000	D	D	D
Temporary resident	D	D	D	D	D
Non-S&E occupations	5,115,000	3,855,000	151,000	438,000	671,000
U.S. citizen	4,990,000	3,755,000	145,000	428,000	662,000
Native-born	4,517,000	3,391,000	131,000	387,000	607,000
Naturalized	473,000	364,000	13,000	41,000	55,000
Non-U.S. citizen	125,000	100,000	6,000	10,000	9,000
Permanent resident	112,000	88,000	5,000	10,000	9,000
Temporary resident	13,000	12,000	S	D	D
Arts/humanities/related occupations	180,000	152,000	9,000	6,000	14,000
U.S. citizen	176,000	149,000	9,000	5,000	13,000
Native-born	165,000	140,000	9,000	5,000	12,000
Naturalized	11,000	9,000	D	D	D
Non-U.S. citizen	3,000	S	D	D	D
Permanent resident	3,000	D	D	D	D
Temporary resident	D	D	D	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Management-related occupations	766,000	616,000	31,000	9,000	111,000
U.S. citizen	746,000	596,000	30,000	9,000	111,000
Native-born	657,000	519,000	27,000	8,000	103,000
Naturalized	89,000	77,000	4,000	D	8,000
Non-U.S. citizen	21,000	20,000	D	D	D
Permanent resident	16,000	15,000	D	D	D
Temporary resident	5,000	5,000	D	D	D
Non-S&E managers	596,000	505,000	13,000	15,000	63,000
U.S. citizen	581,000	490,000	13,000	15,000	63,000
Native-born	539,000	455,000	10,000	14,000	61,000
Naturalized	42,000	35,000	3,000	D	3,000
Non-U.S. citizen	15,000	15,000	D	D	D
Permanent resident	14,000	14,000	D	D	D
Temporary resident	D	D	D	D	D
Non-S&E postsecondary teachers	27,000	3,000	18,000	5,000	D
U.S. citizen	26,000	3,000	18,000	5,000	D
Native-born	25,000	2,000	17,000	5,000	D
Naturalized	D	D	D	D	D
Non-U.S. citizen	S	D	S	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Non-S&E precollege/other teachers	353,000	18,000	1,000	328,000	6,000
U.S. citizen	344,000	18,000	1,000	320,000	5,000
Native-born	314,000	16,000	1,000	292,000	5,000
Naturalized	30,000	D	D	29,000	D
Non-U.S. citizen	9,000	D	D	8,000	D
Permanent resident	9,000	D	D	8,000	D
Temporary resident	D	D	D	D	D
Sales/marketing occupations	1,019,000	1,007,000	3,000	5,000	4,000
U.S. citizen	998,000	987,000	3,000	5,000	4,000
Native-born	917,000	907,000	3,000	5,000	3,000
Naturalized	80,000	80,000	D	D	D
Non-U.S. citizen	21,000	21,000	D	D	D
Permanent resident	19,000	19,000	D	D	D
Temporary resident	S	S	D	D	D
Social services/related occupations	256,000	140,000	11,000	16,000	89,000
U.S. citizen	252,000	138,000	11,000	16,000	87,000
Native-born	227,000	125,000	9,000	13,000	80,000
Naturalized	25,000	13,000	D	D	7,000
Non-U.S. citizen	4,000	2,000	D	D	D
Permanent resident	4,000	2,000	D	D	D
Temporary resident	D	D	D	D	D
Other non-S&E occupations	1,918,000	1,415,000	65,000	54,000	384,000
U.S. citizen	1,866,000	1,375,000	61,000	53,000	378,000
Native-born	1,672,000	1,227,000	57,000	46,000	342,000
Naturalized	194,000	148,000	4,000	7,000	36,000
Non-U.S. citizen	52,000	40,000	4,000	D	6,000
Permanent resident	47,000	36,000	3,000	D	6,000
Temporary resident	5,000	4,000	S	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Master's degrees, all occupations	5,690,000	3,435,000	414,000	1,140,000	701,000
U.S. citizen	5,344,000	3,165,000	365,000	1,126,000	688,000
Native-born	4,650,000	2,647,000	328,000	1,061,000	614,000
Naturalized	694,000	518,000	37,000	65,000	74,000
Non-U.S. citizen	346,000	270,000	49,000	14,000	13,000
Permanent resident	217,000	177,000	17,000	13,000	11,000
Temporary resident	129,000	94,000	32,000	1,000	2,000
S&E occupations	1,519,000	1,067,000	167,000	91,000	194,000
U.S. citizen	1,309,000	901,000	131,000	89,000	188,000
Native-born	1,038,000	679,000	116,000	82,000	160,000
Naturalized	271,000	222,000	15,000	7,000	28,000
Non-U.S. citizen	210,000	166,000	36,000	2,000	6,000
Permanent resident	111,000	94,000	11,000	1,000	4,000
Temporary resident	99,000	72,000	25,000	S	2,000
Science occupations	1,038,000	667,000	147,000	89,000	136,000
U.S. citizen	887,000	551,000	118,000	87,000	131,000
Native-born	710,000	407,000	104,000	81,000	118,000
Naturalized	177,000	144,000	14,000	6,000	13,000
Non-U.S. citizen	152,000	116,000	29,000	2,000	5,000
Permanent resident	84,000	69,000	10,000	1,000	4,000
Temporary resident	68,000	47,000	19,000	S	1,000
Biological/agricultural/other life scientists	128,000	49,000	39,000	6,000	33,000
U.S. citizen	114,000	45,000	30,000	6,000	33,000
Native-born	98,000	34,000	27,000	6,000	31,000
Naturalized	16,000	10,000	3,000	D	2,000
Non-U.S. citizen	14,000	5,000	9,000	D	D
Permanent resident	9,000	3,000	6,000	D	D
Temporary resident	5,000	2,000	3,000	D	D
Agricultural/food scientists	15,000	8,000	6,000	D	2,000
U.S. citizen	14,000	7,000	5,000	D	2,000
Native-born	12,000	5,000	5,000	D	2,000
Naturalized	S	D	D	D	D
Non-U.S. citizen	1,000	*	S	D	D
Permanent resident	D	D	D	D	D
Temporary resident	1,000	D	*	D	D
Biological/medical scientists	86,000	39,000	23,000	D	23,000
U.S. citizen	74,000	35,000	16,000	D	23,000
Native-born	62,000	27,000	14,000	D	21,000
Naturalized	12,000	8,000	2,000	D	2,000
Non-U.S. citizen	12,000	4,000	7,000	D	D
Permanent resident	8,000	3,000	5,000	D	D
Temporary resident	4,000	1,000	2,000	D	D
Environmental life scientists	11,000	2,000	1,000	D	7,000
U.S. citizen	10,000	2,000	D	D	7,000
Native-born	10,000	2,000	D	D	7,000
Naturalized	D	D	D	D	D
Non-U.S. citizen	D	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Postsecondary teachers-life/related sciences	16,000	D	9,000	6,000	D
U.S. citizen	15,000	D	9,000	6,000	D
Native-born	14,000	D	8,000	6,000	D
Naturalized	1,000	D	1,000	D	D
Non-U.S. citizen	*	D	*	D	D
Permanent resident	D	D	D	D	D
Temporary resident	*	D	*	D	D
Computer/mathematical scientists	608,000	479,000	55,000	26,000	49,000
U.S. citizen	493,000	377,000	46,000	25,000	45,000
Native-born	353,000	257,000	38,000	22,000	37,000
Naturalized	140,000	120,000	8,000	3,000	8,000
Non-U.S. citizen	116,000	102,000	9,000	1,000	4,000
Permanent resident	66,000	60,000	3,000	1,000	3,000
Temporary resident	50,000	42,000	7,000	D	1,000
Computer/information scientists	523,000	451,000	29,000	7,000	36,000
U.S. citizen	416,000	354,000	23,000	7,000	32,000
Native-born	287,000	239,000	18,000	6,000	25,000
Naturalized	129,000	115,000	5,000	1,000	8,000
Non-U.S. citizen	107,000	97,000	6,000	D	3,000
Permanent resident	62,000	58,000	2,000	D	3,000
Temporary resident	44,000	39,000	4,000	D	1,000
Mathematical scientists	46,000	27,000	6,000	D	13,000
U.S. citizen	40,000	23,000	5,000	D	12,000
Native-born	34,000	18,000	4,000	D	12,000
Naturalized	7,000	5,000	1,000	D	1,000
Non-U.S. citizen	6,000	5,000	1,000	D	D
Permanent resident	2,000	2,000	D	D	D
Temporary resident	4,000	3,000	1,000	D	D
Postsecondary teachers-computer/mathematical sciences	39,000	D	20,000	18,000	D
U.S. citizen	36,000	D	17,000	18,000	D
Native-born	32,000	D	16,000	16,000	D
Naturalized	4,000	D	2,000	2,000	D
Non-U.S. citizen	3,000	D	3,000	*	D
Permanent resident	1,000	D	1,000	*	D
Temporary resident	2,000	D	2,000	D	D
Physical/related scientists	84,000	48,000	16,000	5,000	15,000
U.S. citizen	74,000	44,000	11,000	5,000	15,000
Native-born	65,000	37,000	10,000	4,000	13,000
Naturalized	9,000	7,000	1,000	D	1,000
Non-U.S. citizen	10,000	4,000	5,000	D	*
Permanent resident	5,000	4,000	1,000	D	D
Temporary resident	5,000	1,000	4,000	D	D
Chemists, except biochemists	26,000	21,000	2,000	D	3,000
U.S. citizen	21,000	17,000	1,000	D	2,000
Native-born	14,000	12,000	1,000	D	2,000
Naturalized	7,000	6,000	D	D	1,000
Non-U.S. citizen	5,000	4,000	1,000	D	D
Permanent resident	4,000	3,000	*	D	D
Temporary resident	1,000	*	1,000	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Earth/atmospheric/ocean scientists	30,000	19,000	3,000	D	8,000
U.S. citizen	29,000	18,000	2,000	D	8,000
Native-born	27,000	17,000	2,000	D	8,000
Naturalized	1,000	1,000	D	D	*
Non-U.S. citizen	2,000	1,000	1,000	D	D
Permanent resident	1,000	D	D	D	D
Temporary resident	1,000	S	*	D	D
Physicists/astronomers	6,000	2,000	3,000	D	1,000
U.S. citizen	4,000	2,000	1,000	D	1,000
Native-born	4,000	2,000	1,000	D	1,000
Naturalized	D	D	D	D	D
Non-U.S. citizen	2,000	D	2,000	D	D
Permanent resident	*	D	*	D	D
Temporary resident	2,000	D	2,000	D	D
Postsecondary teachers-physical/related sciences	12,000	D	7,000	5,000	D
U.S. citizen	11,000	D	6,000	5,000	D
Native-born	10,000	D	5,000	4,000	D
Naturalized	S	D	*	D	D
Non-U.S. citizen	1,000	D	1,000	D	D
Permanent resident	*	D	*	D	D
Temporary resident	1,000	D	1,000	D	D
Other physical/related scientists	10,000	5,000	1,000	D	4,000
U.S. citizen	9,000	5,000	1,000	D	4,000
Native-born	9,000	5,000	1,000	D	3,000
Naturalized	D	D	D	D	D
Non-U.S. citizen	D	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Social/related scientists	218,000	91,000	37,000	52,000	39,000
U.S. citizen	206,000	86,000	31,000	51,000	38,000
Native-born	194,000	79,000	29,000	49,000	37,000
Naturalized	12,000	7,000	2,000	2,000	1,000
Non-U.S. citizen	12,000	5,000	6,000	D	S
Permanent resident	4,000	3,000	S	D	D
Temporary resident	8,000	2,000	5,000	D	D
Economists	15,000	8,000	2,000	D	5,000
U.S. citizen	13,000	6,000	S	D	5,000
Native-born	12,000	5,000	S	D	5,000
Naturalized	1,000	1,000	D	D	D
Non-U.S. citizen	2,000	1,000	1,000	D	D
Permanent resident	*	*	D	D	D
Temporary resident	1,000	S	1,000	D	D
Political/related scientists	10,000	5,000	1,000	D	3,000
U.S. citizen	9,000	5,000	S	D	3,000
Native-born	8,000	4,000	S	D	3,000
Naturalized	D	D	D	D	D
Non-U.S. citizen	1,000	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	S	D	D	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Postsecondary teachers-social/related sciences	33,000	D	21,000	11,000	D
U.S. citizen	30,000	D	18,000	11,000	D
Native-born	29,000	D	17,000	11,000	D
Naturalized	1,000	D	1,000	D	D
Non-U.S. citizen	3,000	D	3,000	D	D
Permanent resident	D	D	D	D	D
Temporary resident	3,000	D	3,000	D	D
Psychologists	95,000	37,000	8,000	40,000	11,000
U.S. citizen	93,000	36,000	7,000	39,000	11,000
Native-born	88,000	34,000	6,000	37,000	11,000
Naturalized	5,000	2,000	S	2,000	D
Non-U.S. citizen	3,000	S	1,000	D	D
Permanent resident	2,000	D	D	D	D
Temporary resident	1,000	D	D	D	D
Sociologists/anthropologists	9,000	4,000	3,000	D	2,000
U.S. citizen	9,000	4,000	3,000	D	2,000
Native-born	9,000	4,000	3,000	D	2,000
Naturalized	D	D	D	D	D
Non-U.S. citizen	*	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	*	D	D	D	D
Other social/related scientists	56,000	36,000	2,000	D	17,000
U.S. citizen	53,000	34,000	1,000	D	17,000
Native-born	48,000	31,000	1,000	D	16,000
Naturalized	4,000	3,000	D	D	D
Non-U.S. citizen	3,000	2,000	1,000	D	D
Permanent resident	2,000	2,000	D	D	D
Temporary resident	2,000	1,000	1,000	D	D
Engineering occupations	480,000	400,000	20,000	2,000	58,000
U.S. citizen	422,000	350,000	13,000	2,000	57,000
Native-born	328,000	273,000	12,000	1,000	42,000
Naturalized	94,000	78,000	1,000	D	15,000
Non-U.S. citizen	58,000	50,000	7,000	D	1,000
Permanent resident	27,000	25,000	1,000	D	1,000
Temporary resident	32,000	25,000	6,000	D	1,000
Aerospace/aeronautical/astronautical engineers	37,000	28,000	1,000	D	8,000
U.S. citizen	35,000	27,000	1,000	D	8,000
Native-born	30,000	23,000	1,000	D	7,000
Naturalized	5,000	4,000	D	D	S
Non-U.S. citizen	1,000	1,000	*	D	D
Permanent resident	1,000	1,000	D	D	D
Temporary resident	1,000	*	*	D	D
Chemical engineers	23,000	22,000	1,000	D	*
U.S. citizen	21,000	20,000	1,000	D	*
Native-born	16,000	15,000	1,000	D	*
Naturalized	4,000	4,000	D	D	D
Non-U.S. citizen	3,000	2,000	*	D	D
Permanent resident	2,000	2,000	D	D	D
Temporary resident	1,000	*	*	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Civil/architectural/sanitary engineers	76,000	55,000	1,000	D	19,000
U.S. citizen	69,000	49,000	1,000	D	19,000
Native-born	52,000	40,000	S	D	11,000
Naturalized	17,000	9,000	D	D	7,000
Non-U.S. citizen	7,000	6,000	*	D	1,000
Permanent resident	3,000	3,000	D	D	*
Temporary resident	4,000	3,000	*	D	D
Electrical/computer hardware engineers	133,000	119,000	3,000	D	10,000
U.S. citizen	110,000	98,000	2,000	D	10,000
Native-born	72,000	62,000	2,000	D	8,000
Naturalized	38,000	35,000	D	D	3,000
Non-U.S. citizen	23,000	21,000	2,000	D	D
Permanent resident	10,000	10,000	D	D	D
Temporary resident	13,000	11,000	1,000	D	D
Industrial engineers	23,000	22,000	*	D	1,000
U.S. citizen	20,000	19,000	*	D	1,000
Native-born	18,000	17,000	*	D	1,000
Naturalized	3,000	3,000	D	D	D
Non-U.S. citizen	3,000	3,000	*	D	D
Permanent resident	1,000	1,000	D	D	D
Temporary resident	2,000	2,000	*	D	D
Mechanical engineers	91,000	83,000	2,000	D	6,000
U.S. citizen	82,000	74,000	1,000	D	6,000
Native-born	66,000	60,000	1,000	D	4,000
Naturalized	16,000	14,000	D	D	1,000
Non-U.S. citizen	9,000	8,000	1,000	D	D
Permanent resident	5,000	5,000	D	D	D
Temporary resident	5,000	4,000	1,000	D	D
Postsecondary teachers-engineering	8,000	D	6,000	1,000	D
U.S. citizen	6,000	D	4,000	1,000	D
Native-born	6,000	D	4,000	1,000	D
Naturalized	*	D	D	D	D
Non-U.S. citizen	2,000	D	2,000	D	D
Permanent resident	D	D	D	D	D
Temporary resident	1,000	D	1,000	D	D
Other engineers	90,000	72,000	5,000	D	14,000
U.S. citizen	80,000	63,000	3,000	D	13,000
Native-born	69,000	55,000	3,000	D	11,000
Naturalized	11,000	8,000	*	D	3,000
Non-U.S. citizen	10,000	8,000	2,000	D	*
Permanent resident	4,000	4,000	D	D	D
Temporary resident	6,000	5,000	1,000	D	D
S&E-related occupations	1,404,000	749,000	90,000	427,000	139,000
U.S. citizen	1,365,000	720,000	85,000	423,000	137,000
Native-born	1,215,000	619,000	76,000	401,000	119,000
Naturalized	151,000	102,000	9,000	22,000	18,000
Non-U.S. citizen	39,000	28,000	5,000	4,000	1,000
Permanent resident	28,000	20,000	2,000	4,000	1,000
Temporary resident	11,000	8,000	3,000	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Health occupations	724,000	477,000	72,000	92,000	83,000
U.S. citizen	714,000	470,000	70,000	92,000	82,000
Native-born	640,000	419,000	64,000	89,000	69,000
Naturalized	74,000	51,000	6,000	3,000	13,000
Non-U.S. citizen	10,000	7,000	3,000	D	*
Permanent resident	7,000	5,000	S	D	*
Temporary resident	3,000	2,000	S	D	D
S&E managers, including health	194,000	143,000	10,000	2,000	39,000
U.S. citizen	186,000	135,000	9,000	2,000	39,000
Native-born	159,000	113,000	8,000	S	37,000
Naturalized	27,000	22,000	1,000	D	3,000
Non-U.S. citizen	8,000	8,000	D	D	D
Permanent resident	7,000	6,000	D	D	D
Temporary resident	1,000	1,000	D	D	D
S&E precollege teachers	334,000	D	1,000	332,000	D
U.S. citizen	330,000	D	1,000	328,000	D
Native-born	311,000	D	1,000	309,000	D
Naturalized	19,000	D	D	19,000	D
Non-U.S. citizen	4,000	D	D	4,000	D
Permanent resident	4,000	D	D	4,000	D
Temporary resident	D	D	D	D	D
S&E technicians/technologists	85,000	67,000	7,000	S	10,000
U.S. citizen	74,000	59,000	5,000	S	10,000
Native-born	53,000	41,000	3,000	S	8,000
Naturalized	21,000	18,000	1,000	D	2,000
Non-U.S. citizen	11,000	8,000	2,000	D	D
Permanent resident	5,000	4,000	D	D	D
Temporary resident	6,000	4,000	2,000	D	D
Other S&E-related occupations	67,000	61,000	D	D	6,000
U.S. citizen	61,000	55,000	D	D	6,000
Native-born	51,000	46,000	D	D	5,000
Naturalized	10,000	10,000	D	D	D
Non-U.S. citizen	5,000	5,000	D	D	D
Permanent resident	5,000	5,000	D	D	D
Temporary resident	S	S	D	D	D
Non-S&E occupations	2,768,000	1,619,000	158,000	622,000	368,000
U.S. citizen	2,670,000	1,543,000	150,000	614,000	363,000
Native-born	2,397,000	1,349,000	136,000	578,000	335,000
Naturalized	273,000	195,000	14,000	36,000	28,000
Non-U.S. citizen	98,000	76,000	8,000	8,000	5,000
Permanent resident	79,000	62,000	3,000	8,000	5,000
Temporary resident	19,000	14,000	5,000	D	D
Arts/humanities/related occupations	95,000	73,000	9,000	5,000	8,000
U.S. citizen	89,000	67,000	9,000	5,000	7,000
Native-born	80,000	60,000	9,000	5,000	6,000
Naturalized	8,000	7,000	D	D	D
Non-U.S. citizen	6,000	6,000	D	D	D
Permanent resident	5,000	4,000	D	D	D
Temporary resident	S	S	D	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Management-related occupations	479,000	369,000	18,000	12,000	80,000
U.S. citizen	451,000	344,000	17,000	12,000	78,000
Native-born	389,000	293,000	12,000	12,000	72,000
Naturalized	62,000	51,000	5,000	D	6,000
Non-U.S. citizen	28,000	26,000	D	D	S
Permanent resident	21,000	20,000	D	D	S
Temporary resident	6,000	6,000	D	D	D
Non-S&E managers	531,000	359,000	23,000	81,000	68,000
U.S. citizen	514,000	345,000	22,000	81,000	67,000
Native-born	458,000	296,000	21,000	79,000	63,000
Naturalized	56,000	49,000	S	2,000	4,000
Non-U.S. citizen	17,000	15,000	D	D	D
Permanent resident	14,000	12,000	D	D	D
Temporary resident	3,000	2,000	D	D	D
Non-S&E postsecondary teachers	73,000	6,000	44,000	21,000	S
U.S. citizen	68,000	6,000	40,000	21,000	S
Native-born	63,000	5,000	38,000	19,000	S
Naturalized	5,000	D	2,000	2,000	D
Non-U.S. citizen	5,000	D	4,000	D	D
Permanent resident	3,000	D	2,000	D	D
Temporary resident	2,000	D	2,000	D	D
Non-S&E precollege/other teachers	378,000	7,000	D	368,000	3,000
U.S. citizen	370,000	6,000	D	360,000	3,000
Native-born	345,000	5,000	D	337,000	2,000
Naturalized	25,000	D	D	23,000	D
Non-U.S. citizen	8,000	D	D	7,000	D
Permanent resident	8,000	D	D	7,000	D
Temporary resident	D	D	D	D	D
Sales/marketing occupations	296,000	290,000	S	D	2,000
U.S. citizen	282,000	276,000	S	D	2,000
Native-born	242,000	237,000	S	D	S
Naturalized	40,000	39,000	D	D	D
Non-U.S. citizen	14,000	14,000	D	D	D
Permanent resident	13,000	13,000	D	D	D
Temporary resident	S	S	D	D	D
Social services/related occupations	435,000	224,000	26,000	101,000	84,000
U.S. citizen	430,000	221,000	25,000	101,000	84,000
Native-born	407,000	211,000	23,000	93,000	79,000
Naturalized	24,000	10,000	2,000	7,000	5,000
Non-U.S. citizen	5,000	4,000	S	D	D
Permanent resident	4,000	3,000	D	D	D
Temporary resident	1,000	D	D	D	D
Other non-S&E occupations	481,000	290,000	34,000	35,000	122,000
U.S. citizen	466,000	279,000	32,000	34,000	121,000
Native-born	413,000	242,000	29,000	32,000	110,000
Naturalized	53,000	37,000	3,000	2,000	11,000
Non-U.S. citizen	16,000	11,000	2,000	D	S
Permanent resident	12,000	9,000	S	D	S
Temporary resident	3,000	2,000	1,000	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Doctoral degrees, all occupations	934,000	416,000	381,000	56,000	81,000
U.S. citizen	804,000	348,000	326,000	55,000	76,000
Native-born	629,000	255,000	265,000	49,000	60,000
Naturalized	175,000	93,000	60,000	6,000	16,000
Non-U.S. citizen	130,000	68,000	55,000	2,000	5,000
Permanent resident	92,000	49,000	38,000	1,000	4,000
Temporary resident	38,000	19,000	17,000	*	1,000
S&E occupations	592,000	249,000	268,000	19,000	56,000
U.S. citizen	490,000	198,000	221,000	18,000	52,000
Native-born	374,000	140,000	177,000	16,000	41,000
Naturalized	116,000	58,000	44,000	2,000	12,000
Non-U.S. citizen	102,000	51,000	46,000	1,000	4,000
Permanent resident	68,000	34,000	31,000	1,000	3,000
Temporary resident	34,000	17,000	15,000	*	1,000
Science occupations	485,000	181,000	237,000	19,000	48,000
U.S. citizen	409,000	147,000	199,000	18,000	45,000
Native-born	325,000	109,000	163,000	16,000	36,000
Naturalized	85,000	38,000	36,000	2,000	9,000
Non-U.S. citizen	75,000	34,000	38,000	1,000	3,000
Permanent resident	53,000	24,000	26,000	*	2,000
Temporary resident	22,000	10,000	12,000	*	1,000
Biological/agricultural/other life scientists	156,000	50,000	83,000	4,000	19,000
U.S. citizen	128,000	39,000	68,000	3,000	17,000
Native-born	97,000	27,000	54,000	3,000	13,000
Naturalized	31,000	13,000	13,000	*	4,000
Non-U.S. citizen	28,000	11,000	15,000	D	2,000
Permanent resident	20,000	8,000	10,000	D	2,000
Temporary resident	8,000	2,000	5,000	D	*
Agricultural/food scientists	11,000	5,000	3,000	D	2,000
U.S. citizen	9,000	4,000	3,000	D	2,000
Native-born	7,000	3,000	2,000	D	2,000
Naturalized	2,000	1,000	*	D	*
Non-U.S. citizen	2,000	1,000	1,000	D	D
Permanent resident	1,000	*	1,000	D	D
Temporary resident	*	*	*	D	D
Biological/medical scientists	108,000	44,000	47,000	*	17,000
U.S. citizen	85,000	34,000	36,000	*	15,000
Native-born	62,000	23,000	28,000	*	11,000
Naturalized	23,000	12,000	8,000	D	4,000
Non-U.S. citizen	23,000	10,000	11,000	D	2,000
Permanent resident	16,000	8,000	7,000	D	1,000
Temporary resident	7,000	2,000	4,000	D	*
Environmental life scientists	2,000	*	*	D	1,000
U.S. citizen	1,000	*	*	D	1,000
Native-born	1,000	*	*	D	1,000
Naturalized	*	D	D	D	D
Non-U.S. citizen	*	*	D	D	D
Permanent resident	*	D	D	D	D
Temporary resident	D	D	D	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Postsecondary teachers-life/related sciences	35,000	*	32,000	3,000	D
U.S. citizen	32,000	*	29,000	3,000	D
Native-born	27,000	*	24,000	3,000	D
Naturalized	5,000	D	5,000	*	D
Non-U.S. citizen	3,000	D	3,000	D	D
Permanent resident	3,000	D	2,000	D	D
Temporary resident	1,000	D	1,000	D	D
Computer/mathematical scientists	92,000	47,000	35,000	4,000	6,000
U.S. citizen	70,000	34,000	27,000	4,000	5,000
Native-born	46,000	20,000	19,000	3,000	4,000
Naturalized	23,000	14,000	7,000	1,000	1,000
Non-U.S. citizen	22,000	13,000	8,000	*	*
Permanent resident	15,000	9,000	6,000	*	*
Temporary resident	7,000	4,000	3,000	D	D
Computer/information scientists	46,000	37,000	5,000	*	3,000
U.S. citizen	33,000	26,000	3,000	*	3,000
Native-born	21,000	16,000	2,000	D	2,000
Naturalized	13,000	11,000	1,000	D	1,000
Non-U.S. citizen	12,000	10,000	2,000	D	D
Permanent resident	9,000	7,000	1,000	D	D
Temporary resident	4,000	3,000	1,000	D	D
Mathematical scientists	17,000	10,000	4,000	S	2,000
U.S. citizen	13,000	7,000	2,000	S	2,000
Native-born	8,000	5,000	2,000	D	1,000
Naturalized	4,000	3,000	1,000	D	1,000
Non-U.S. citizen	4,000	3,000	1,000	D	D
Permanent resident	2,000	2,000	1,000	D	D
Temporary resident	2,000	2,000	*	D	D
Postsecondary teachers-computer/mathematical sciences	29,000	*	26,000	3,000	D
U.S. citizen	24,000	*	21,000	3,000	D
Native-born	17,000	D	15,000	2,000	D
Naturalized	6,000	D	6,000	1,000	D
Non-U.S. citizen	6,000	D	6,000	*	D
Permanent resident	4,000	D	4,000	*	D
Temporary resident	2,000	D	2,000	D	D
Physical/related scientists	93,000	36,000	43,000	3,000	11,000
U.S. citizen	78,000	29,000	35,000	3,000	11,000
Native-born	61,000	21,000	28,000	2,000	8,000
Naturalized	17,000	8,000	7,000	*	2,000
Non-U.S. citizen	16,000	7,000	8,000	*	1,000
Permanent resident	11,000	5,000	6,000	D	*
Temporary resident	4,000	2,000	2,000	D	*
Chemists, except biochemists	29,000	21,000	4,000	D	3,000
U.S. citizen	23,000	17,000	3,000	D	3,000
Native-born	16,000	12,000	2,000	D	2,000
Naturalized	7,000	5,000	1,000	D	1,000
Non-U.S. citizen	6,000	5,000	1,000	D	*
Permanent resident	4,000	4,000	1,000	D	D
Temporary resident	2,000	1,000	1,000	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Earth/atmospheric/ocean scientists	12,000	4,000	4,000	D	3,000
U.S. citizen	10,000	4,000	3,000	D	3,000
Native-born	9,000	3,000	3,000	D	3,000
Naturalized	1,000	*	*	D	1,000
Non-U.S. citizen	2,000	1,000	1,000	D	*
Permanent resident	1,000	*	1,000	D	D
Temporary resident	1,000	*	*	D	D
Physicists/astronomers	16,000	8,000	5,000	D	3,000
U.S. citizen	13,000	7,000	4,000	D	3,000
Native-born	10,000	5,000	3,000	D	2,000
Naturalized	3,000	2,000	1,000	D	1,000
Non-U.S. citizen	3,000	1,000	1,000	D	*
Permanent resident	2,000	1,000	*	D	*
Temporary resident	1,000	*	1,000	D	*
Postsecondary teachers-physical/related sciences	32,000	D	29,000	3,000	D
U.S. citizen	28,000	D	25,000	3,000	D
Native-born	23,000	D	20,000	2,000	D
Naturalized	5,000	D	5,000	*	D
Non-U.S. citizen	4,000	D	4,000	*	D
Permanent resident	4,000	D	4,000	D	D
Temporary resident	*	D	*	D	D
Other physical/related scientists	4,000	3,000	1,000	D	1,000
U.S. citizen	3,000	2,000	*	D	1,000
Native-born	3,000	1,000	*	D	1,000
Naturalized	1,000	1,000	D	D	D
Non-U.S. citizen	1,000	1,000	*	D	D
Permanent resident	*	D	D	D	D
Temporary resident	1,000	*	D	D	D
Social/related scientists	144,000	48,000	76,000	8,000	12,000
U.S. citizen	134,000	45,000	69,000	8,000	12,000
Native-born	120,000	41,000	61,000	7,000	11,000
Naturalized	14,000	4,000	8,000	1,000	1,000
Non-U.S. citizen	10,000	3,000	7,000	*	*
Permanent resident	7,000	2,000	5,000	*	*
Temporary resident	3,000	1,000	2,000	D	D
Economists	8,000	4,000	2,000	D	2,000
U.S. citizen	6,000	3,000	1,000	D	2,000
Native-born	5,000	3,000	1,000	D	2,000
Naturalized	1,000	*	*	D	*
Non-U.S. citizen	2,000	1,000	1,000	D	*
Permanent resident	1,000	*	*	D	*
Temporary resident	1,000	1,000	*	D	D
Political/related scientists	1,000	*	1,000	D	*
U.S. citizen	1,000	*	1,000	D	*
Native-born	1,000	*	1,000	D	*
Naturalized	D	D	D	D	D
Non-U.S. citizen	*	D	*	D	D
Permanent resident	*	D	*	D	D
Temporary resident	D	D	D	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Postsecondary teachers-social/related sciences	65,000	*	59,000	5,000	*
U.S. citizen	59,000	*	54,000	5,000	*
Native-born	53,000	*	48,000	4,000	*
Naturalized	7,000	D	6,000	*	D
Non-U.S. citizen	5,000	D	5,000	*	D
Permanent resident	4,000	D	4,000	*	D
Temporary resident	1,000	D	1,000	D	D
Psychologists	56,000	37,000	9,000	3,000	7,000
U.S. citizen	55,000	36,000	9,000	3,000	7,000
Native-born	50,000	33,000	8,000	3,000	7,000
Naturalized	5,000	3,000	S	*	1,000
Non-U.S. citizen	1,000	1,000	*	D	D
Permanent resident	1,000	1,000	*	D	D
Temporary resident	*	D	*	D	D
Sociologists/anthropologists	4,000	2,000	2,000	D	1,000
U.S. citizen	4,000	1,000	1,000	D	1,000
Native-born	3,000	1,000	1,000	D	1,000
Naturalized	*	D	*	D	*
Non-U.S. citizen	1,000	*	*	D	D
Permanent resident	*	D	*	D	D
Temporary resident	*	D	*	D	D
Other social/related scientists	9,000	4,000	3,000	*	1,000
U.S. citizen	8,000	3,000	3,000	*	1,000
Native-born	7,000	3,000	3,000	*	1,000
Naturalized	1,000	1,000	*	D	*
Non-U.S. citizen	1,000	S	*	D	D
Permanent resident	1,000	S	*	D	D
Temporary resident	*	*	D	D	D
Engineering occupations	107,000	68,000	30,000	*	8,000
U.S. citizen	81,000	51,000	22,000	*	7,000
Native-born	50,000	31,000	14,000	*	5,000
Naturalized	31,000	20,000	8,000	D	3,000
Non-U.S. citizen	26,000	17,000	8,000	D	1,000
Permanent resident	15,000	10,000	4,000	D	*
Temporary resident	11,000	7,000	4,000	D	*
Aerospace/aeronautical/astronautical engineers	7,000	5,000	*	D	1,000
U.S. citizen	6,000	5,000	*	D	1,000
Native-born	4,000	3,000	D	D	1,000
Naturalized	2,000	2,000	D	D	*
Non-U.S. citizen	1,000	*	*	D	D
Permanent resident	*	*	D	D	D
Temporary resident	*	D	D	D	D
Chemical engineers	9,000	8,000	1,000	D	*
U.S. citizen	7,000	6,000	*	D	*
Native-born	4,000	4,000	*	D	*
Naturalized	3,000	2,000	D	D	D
Non-U.S. citizen	2,000	1,000	*	D	D
Permanent resident	1,000	1,000	*	D	D
Temporary resident	1,000	*	D	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Civil/architectural/sanitary engineers	6,000	4,000	1,000	D	1,000
U.S. citizen	4,000	2,000	1,000	D	1,000
Native-born	2,000	2,000	*	D	*
Naturalized	2,000	1,000	*	D	1,000
Non-U.S. citizen	2,000	1,000	*	D	*
Permanent resident	1,000	1,000	D	D	*
Temporary resident	1,000	*	*	D	D
Electrical/computer hardware engineers	25,000	21,000	2,000	D	2,000
U.S. citizen	17,000	14,000	2,000	D	1,000
Native-born	10,000	8,000	1,000	D	1,000
Naturalized	8,000	7,000	1,000	D	S
Non-U.S. citizen	8,000	7,000	1,000	D	D
Permanent resident	4,000	4,000	*	D	D
Temporary resident	3,000	3,000	*	D	D
Industrial engineers	2,000	2,000	*	D	*
U.S. citizen	2,000	1,000	*	D	*
Native-born	1,000	1,000	*	D	D
Naturalized	1,000	S	D	D	D
Non-U.S. citizen	*	*	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Mechanical engineers	11,000	9,000	1,000	D	1,000
U.S. citizen	8,000	7,000	1,000	D	1,000
Native-born	5,000	4,000	1,000	D	*
Naturalized	4,000	3,000	*	D	*
Non-U.S. citizen	3,000	3,000	*	D	D
Permanent resident	1,000	1,000	D	D	D
Temporary resident	2,000	1,000	*	D	D
Postsecondary teachers-engineering	21,000	D	21,000	*	*
U.S. citizen	16,000	D	16,000	*	*
Native-born	10,000	D	10,000	*	*
Naturalized	6,000	D	6,000	D	D
Non-U.S. citizen	5,000	D	5,000	D	D
Permanent resident	3,000	D	3,000	D	D
Temporary resident	2,000	D	2,000	D	D
Other engineers	27,000	20,000	4,000	D	3,000
U.S. citizen	20,000	15,000	2,000	D	3,000
Native-born	14,000	11,000	2,000	D	2,000
Naturalized	6,000	5,000	1,000	D	1,000
Non-U.S. citizen	6,000	4,000	2,000	D	*
Permanent resident	3,000	2,000	1,000	D	*
Temporary resident	3,000	2,000	1,000	D	D
S&E-related occupations	117,000	53,000	37,000	15,000	13,000
U.S. citizen	105,000	46,000	32,000	15,000	12,000
Native-born	80,000	32,000	26,000	13,000	10,000
Naturalized	25,000	14,000	7,000	2,000	2,000
Non-U.S. citizen	12,000	7,000	4,000	*	1,000
Permanent resident	11,000	5,000	4,000	*	1,000
Temporary resident	2,000	1,000	1,000	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Health occupations	65,000	25,000	32,000	1,000	7,000
U.S. citizen	58,000	23,000	29,000	1,000	6,000
Native-born	46,000	17,000	23,000	1,000	4,000
Naturalized	13,000	6,000	6,000	D	1,000
Non-U.S. citizen	7,000	2,000	4,000	D	1,000
Permanent resident	6,000	2,000	3,000	D	S
Temporary resident	1,000	S	1,000	D	D
S&E managers, including health	32,000	23,000	4,000	D	5,000
U.S. citizen	29,000	20,000	3,000	D	5,000
Native-born	21,000	14,000	3,000	D	5,000
Naturalized	8,000	7,000	1,000	D	1,000
Non-U.S. citizen	3,000	3,000	1,000	D	D
Permanent resident	3,000	2,000	*	D	D
Temporary resident	*	*	D	D	D
S&E precollege teachers	15,000	D	D	14,000	D
U.S. citizen	14,000	D	D	14,000	D
Native-born	12,000	D	D	12,000	D
Naturalized	2,000	D	D	2,000	D
Non-U.S. citizen	*	D	D	*	D
Permanent resident	*	D	D	*	D
Temporary resident	D	D	D	D	D
S&E technicians/technologists	4,000	4,000	1,000	D	*
U.S. citizen	3,000	2,000	*	D	*
Native-born	1,000	1,000	*	D	*
Naturalized	2,000	1,000	D	D	D
Non-U.S. citizen	2,000	2,000	D	D	D
Permanent resident	1,000	1,000	D	D	D
Temporary resident	*	*	D	D	D
Other S&E-related occupations	1,000	*	D	D	D
U.S. citizen	1,000	*	D	D	D
Native-born	*	*	D	D	D
Naturalized	*	D	D	D	D
Non-U.S. citizen	*	*	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Non-S&E occupations	225,000	114,000	76,000	22,000	12,000
U.S. citizen	209,000	104,000	72,000	21,000	12,000
Native-born	175,000	83,000	62,000	20,000	10,000
Naturalized	35,000	21,000	10,000	2,000	2,000
Non-U.S. citizen	16,000	11,000	4,000	1,000	*
Permanent resident	13,000	9,000	3,000	*	*
Temporary resident	3,000	2,000	1,000	D	D
Arts/humanities/related occupations	9,000	7,000	1,000	D	*
U.S. citizen	8,000	6,000	1,000	D	*
Native-born	7,000	5,000	1,000	D	*
Naturalized	1,000	1,000	D	D	D
Non-U.S. citizen	1,000	1,000	D	D	D
Permanent resident	1,000	1,000	D	D	D
Temporary resident	D	D	D	D	D

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/industry	4-year college/university	Other educational institution	Government
Management-related occupations	34,000	27,000	3,000	S	4,000
U.S. citizen	31,000	24,000	2,000	S	4,000
Native-born	26,000	20,000	2,000	S	3,000
Naturalized	5,000	4,000	*	D	S
Non-U.S. citizen	3,000	3,000	*	D	*
Permanent resident	2,000	2,000	*	D	D
Temporary resident	1,000	1,000	D	D	D
Non-S&E managers	75,000	37,000	23,000	11,000	4,000
U.S. citizen	71,000	33,000	23,000	11,000	4,000
Native-born	60,000	25,000	20,000	11,000	3,000
Naturalized	11,000	8,000	2,000	*	1,000
Non-U.S. citizen	4,000	4,000	*	D	D
Permanent resident	4,000	3,000	*	D	D
Temporary resident	*	*	D	D	D
Non-S&E postsecondary teachers	50,000	S	46,000	2,000	D
U.S. citizen	46,000	S	42,000	2,000	D
Native-born	39,000	S	35,000	1,000	D
Naturalized	7,000	D	7,000	*	D
Non-U.S. citizen	4,000	D	4,000	D	D
Permanent resident	3,000	D	3,000	D	D
Temporary resident	1,000	D	1,000	D	D
Non-S&E precollege/other teachers	6,000	S	D	5,000	*
U.S. citizen	6,000	S	D	5,000	D
Native-born	5,000	S	D	4,000	D
Naturalized	S	D	D	S	D
Non-U.S. citizen	*	D	D	*	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Sales/marketing occupations	14,000	14,000	D	D	D
U.S. citizen	11,000	11,000	D	D	D
Native-born	7,000	7,000	D	D	D
Naturalized	4,000	4,000	D	D	D
Non-U.S. citizen	3,000	3,000	D	D	D
Permanent resident	2,000	2,000	D	D	D
Temporary resident	*	*	D	D	D
Social services/related occupations	16,000	12,000	1,000	2,000	1,000
U.S. citizen	15,000	12,000	1,000	2,000	1,000
Native-born	14,000	11,000	1,000	1,000	1,000
Naturalized	2,000	1,000	D	D	*
Non-U.S. citizen	*	D	D	D	D
Permanent resident	D	D	D	D	D
Temporary resident	D	D	D	D	D
Other non-S&E occupations	21,000	15,000	2,000	S	3,000
U.S. citizen	20,000	14,000	2,000	S	3,000
Native-born	17,000	12,000	2,000	S	2,000
Naturalized	3,000	3,000	*	D	1,000

TABLE 9. Employed U.S. scientists and engineers, by level of highest degree, occupation, citizenship status, and employment sector: 2008

Level of highest degree, occupation, and citizenship status	Employed scientists and engineers	Sector of employment			
		Business/ industry	4-year college/ university	Other educational institution	Government
Non-U.S. citizen	1,000	1,000	D	D	D
Permanent resident	*	*	D	D	D
Temporary resident	D	D	D	D	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.

^a 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/occ03maj.html> for detailed description of occupational classification. Business/industry includes self-employed individuals, nonprofit organizations, and other unspecified types of employers. Four-year college/university includes medical schools and university-affiliated research institutes. Other educational institution includes 2-year colleges, precollege institutions, and other educational institutions. Government includes federal (civilian), military, state, and local employers. 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.