

Table E-9. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, employment sector, and primary/secondary work activity : 1993

Highest degree, occupation, and employment sector	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
All degree levels¹						
All occupations, total²	9,793,500	2,919,600	1,462,800	5,625,100	2,072,300	3,366,800
Educational institution	1,761,400	619,900	1,043,200	555,500	234,800	421,400
Government	1,370,900	373,600	76,600	828,500	269,000	574,600
Business/industry	6,661,200	1,926,100	343,000	4,241,200	1,568,500	2,370,900
S&E occupations, total	3,303,400	1,875,500	402,200	1,354,100	1,184,000	693,500
Educational institution	588,000	364,400	313,600	109,700	112,100	90,300
Government	474,700	242,800	16,400	231,500	155,300	132,400
Business/industry	2,240,600	1,268,400	72,100	1,012,900	916,600	470,800
Scientists, total	1,912,300	962,900	350,400	700,100	843,200	393,500
Educational institution	509,900	307,100	281,400	94,100	92,600	82,100
Government	257,000	123,200	12,600	110,400	105,000	74,400
Business/industry	1,145,400	532,600	56,300	495,700	645,600	237,000
Computer/math scientists, total	991,500	399,600	112,700	418,900	733,400	113,500
Educational institution	127,000	52,000	77,400	29,400	58,200	12,400
Government	104,900	40,300	4,300	48,100	76,300	16,700
Business/industry	759,600	307,300	31,000	341,500	598,900	84,300
Life/related scientists, total	322,300	224,900	79,700	98,400	31,900	69,100
Educational institution	155,600	115,500	72,100	26,200	11,300	24,000
Government	64,600	37,200	3,600	27,700	11,100	21,000
Business/industry	102,100	72,200	4,000	44,400	9,500	24,100
Physical/related scientists, total	280,900	204,500	48,200	86,500	51,900	49,700
Educational institution	81,700	60,300	44,700	10,500	12,000	3,900
Government	44,300	28,100	1,200	17,600	12,300	12,300
Business/industry	154,900	116,000	2,200	58,400	27,600	33,400
Social/related scientists, total	317,600	133,900	109,800	96,400	25,900	161,200
Educational institution	145,500	79,200	87,200	28,000	11,100	41,800
Government	43,200	17,500	3,500	17,000	5,300	24,300
Business/industry	128,800	37,100	19,100	51,400	9,600	95,200
Engineers, total	1,391,100	912,700	51,800	653,900	340,900	300,000
Educational institution	78,200	57,200	32,200	15,600	19,500	8,200
Government	217,700	119,600	3,800	121,200	50,300	57,900
Business/industry	1,095,200	735,800	15,800	517,200	271,000	233,900
Non-S&E occupations, total	6,490,100	1,044,100	1,060,600	4,271,100	888,300	2,673,400
Educational institution	1,173,400	255,500	729,600	445,800	122,700	331,100
Government	896,200	130,800	60,100	596,900	113,700	442,200
Business/industry	4,420,600	657,700	270,900	3,228,300	651,900	1,900,100
Managers/administrators	1,994,400	275,600	65,700	1,879,800	233,700	403,600
Educational institution	185,400	26,000	25,800	174,900	16,200	28,300
Government	352,800	45,100	8,300	329,700	39,000	78,500
Business/industry	1,456,300	204,500	31,600	1,375,200	178,500	296,900
Other non-S&E occupations	4,495,700	768,500	994,900	2,391,200	654,600	2,269,700
Educational institution	988,000	229,600	703,800	270,900	106,400	302,800
Government	543,400	85,800	51,800	267,200	74,800	363,700
Business/industry	2,964,400	453,200	239,300	1,853,100	473,400	1,603,200

See explanatory information, if any, and SOURCE at end of table.

Table E-9. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, employment sector, and primary/secondary work activity : 1993

Highest degree, occupation, and employment sector	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Bachelor's						
All occupations, total ²	5,727,200	1,666,500	607,800	3,463,100	1,460,400	1,704,900
Educational institution	653,100	203,800	363,700	212,500	118,800	130,500
Government	831,500	224,900	49,400	488,700	186,200	334,900
Business/industry	4,242,600	1,237,800	194,700	2,761,900	1,155,400	1,239,400
S&E occupations, total	1,980,300	1,067,700	119,300	906,800	818,800	396,900
Educational institution	162,400	93,800	63,000	37,600	52,100	17,400
Government	308,700	150,800	10,900	155,000	106,500	85,700
Business/industry	1,509,200	823,100	45,500	714,300	660,200	293,800
Scientists, total	1,007,000	454,300	97,100	426,400	584,400	168,100
Educational institution	135,500	75,500	56,200	31,300	43,800	13,300
Government	145,900	63,400	7,500	64,000	70,000	39,400
Business/industry	725,600	315,500	33,300	331,200	470,600	115,400
Computer/math scientists, total ...	676,200	253,900	47,900	302,800	531,700	77,200
Educational institution	49,200	13,900	21,400	16,800	32,400	4,500
Government	72,000	26,600	2,900	32,800	54,600	10,200
Business/industry	555,000	213,400	23,600	253,100	444,700	62,500
Life/related scientists, total	131,600	80,700	18,600	53,000	17,300	34,900
Educational institution	39,000	30,300	13,600	6,500	4,900	4,500
Government	36,500	17,300	2,700	16,900	6,500	14,200
Business/industry	56,200	33,200	2,400	29,600	5,900	16,200
Physical/related scientists, total ...	130,700	86,800	12,600	46,200	26,000	31,400
Educational institution	21,800	15,200	10,400	2,100	2,600	1,000
Government	23,600	12,500	1,000	9,300	7,200	9,200
Business/industry	85,200	59,200	1,200	34,800	16,200	21,200
Social/related scientists, total	68,500	32,900	18,000	24,600	9,300	24,700
Educational institution	25,500	16,100	10,800	5,900	3,800	3,300
Government	13,800	7,100	1,000	5,000	1,700	5,800
Business/industry	29,300	9,800	6,200	13,700	3,800	15,600
Engineers, total	973,300	613,400	22,200	480,400	234,500	228,800
Educational institution	26,900	18,300	6,800	6,300	8,400	4,200
Government	162,800	87,400	3,300	91,000	36,500	46,300
Business/industry	783,600	507,600	12,100	383,100	189,600	178,300
Non-S&E occupations, total	3,746,900	598,800	488,400	2,556,300	641,600	1,308,000
Educational institution	490,700	110,000	300,700	174,800	66,700	113,100
Government	522,800	74,200	38,500	333,800	79,800	249,200
Business/industry	2,733,400	414,700	149,200	2,047,700	495,100	945,700
Managers/administrators	1,134,700	134,400	28,500	1,069,800	151,700	229,200
Educational institution	50,800	6,900	4,000	48,100	7,500	6,800
Government	185,700	19,700	5,100	170,400	20,900	45,200
Business/industry	898,200	107,800	19,300	851,300	123,400	177,100
Other non-S&E occupations	2,612,200	464,400	459,900	1,486,500	489,900	1,078,900
Educational institution	439,900	103,100	296,700	126,700	59,200	106,300
Government	337,100	54,400	33,400	163,300	58,900	204,000
Business/industry	1,835,200	306,900	129,800	1,196,400	371,800	768,600

See explanatory information, if any, and SOURCE at end of table.

Table E-9. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, employment sector, and primary/secondary work activity : 1993

Highest degree, occupation, and employment sector	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Master's						
All occupations, total²	2,575,600	766,400	521,900	1,475,300	520,800	757,100
Educational institution	671,600	176,400	415,700	232,600	91,200	156,800
Government	380,800	101,100	18,500	257,500	71,300	136,000
Business/industry	1,523,200	488,900	87,600	985,200	358,300	464,400
S&E occupations, total	891,300	495,900	119,500	350,500	309,600	208,200
Educational institution	190,900	96,400	97,000	35,100	42,100	43,300
Government	128,600	65,100	3,800	64,200	42,100	35,700
Business/industry	571,800	334,400	18,700	251,200	225,500	129,200
Scientists, total	541,400	254,300	107,700	191,100	216,500	144,100
Educational institution	163,400	77,000	88,700	28,800	33,500	40,100
Government	78,300	36,800	3,500	35,600	29,400	24,800
Business/industry	299,800	140,500	15,500	126,700	153,600	79,200
Computer/math scientists, total ...	263,600	111,000	40,600	105,400	181,800	32,800
Educational institution	50,100	19,300	32,600	9,200	21,300	6,600
Government	29,200	11,200	1,400	13,900	19,800	5,600
Business/industry	184,300	80,600	6,600	82,200	140,800	20,600
Life/related scientists, total	70,400	46,600	19,200	20,700	8,700	13,600
Educational institution	34,100	20,300	18,300	5,700	3,200	5,000
Government	16,500	10,000	400	7,800	3,600	4,900
Business/industry	19,800	16,200	500	7,200	1,900	3,700
Physical/related scientists, total ...	72,600	51,500	11,500	25,300	14,700	13,400
Educational institution	21,500	15,000	10,900	2,600	4,400	1,400
Government	13,100	9,100	200	6,000	3,300	2,400
Business/industry	38,000	27,300	500	16,700	7,000	9,600
Social/related scientists, total	134,900	45,300	36,400	39,700	11,300	84,300
Educational institution	57,600	22,400	27,000	11,200	4,700	27,100
Government	19,500	6,600	1,500	8,000	2,700	11,900
Business/industry	57,700	16,300	7,900	20,500	4,000	45,300
Engineers, total	349,900	241,600	11,900	159,400	93,100	64,100
Educational institution	27,600	19,400	8,300	6,300	8,600	3,200
Government	50,300	28,300	400	28,600	12,700	10,900
Business/industry	272,000	193,900	3,200	124,500	71,800	50,000
Non-S&E occupations, total	1,684,300	270,500	402,300	1,124,800	211,100	548,900
Educational institution	480,700	80,000	318,700	197,500	49,100	113,500
Government	252,200	36,000	14,700	193,200	29,200	100,200
Business/industry	951,400	154,500	68,900	734,100	132,800	335,200
Managers/administrators	693,200	94,800	21,000	657,500	73,300	138,300
Educational institution	87,800	7,400	9,200	83,500	6,900	16,000
Government	138,700	18,200	2,500	132,600	17,200	25,500
Business/industry	466,700	69,200	9,400	441,500	49,100	96,800
Other non-S&E occupations	991,100	175,700	381,300	467,300	137,800	410,700
Educational institution	392,900	72,700	309,500	114,000	42,200	97,500
Government	113,500	17,700	12,200	60,700	12,000	74,800
Business/industry	484,700	85,300	59,500	292,600	83,700	238,400

See explanatory information, if any, and SOURCE at end of table.

Table E-9. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, employment sector, and primary/secondary work activity : 1993

Highest degree, occupation, and employment sector	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Doctorate						
All occupations, total²	634,800	382,100	216,800	237,700	70,400	142,200
Educational institution	312,100	204,500	198,200	83,200	22,200	37,700
Government	59,100	33,900	2,800	29,600	8,200	18,400
Business/industry	263,500	143,700	15,800	124,800	40,100	86,100
S&E occupations, total	395,600	294,000	152,600	86,000	51,900	70,100
Educational institution	214,700	164,400	144,000	32,500	17,200	19,400
Government	33,600	24,900	1,400	11,400	5,800	9,000
Business/industry	147,200	104,600	7,200	42,100	28,900	41,700
Scientists, total	330,500	238,200	135,000	73,300	39,000	64,100
Educational institution	191,100	144,900	126,800	29,500	14,600	18,600
Government	29,400	21,300	1,400	10,000	4,800	8,400
Business/industry	110,000	71,900	6,800	33,800	19,500	37,200
Computer/math scientists, total ...	48,700	33,300	24,200	9,200	17,800	3,200
Educational institution	27,300	18,600	23,200	3,200	4,300	1,400
Government	3,400	2,500	100	1,200	1,700	700
Business/industry	18,000	12,200	900	4,800	11,800	1,100
Life/related scientists, total	98,100	86,100	32,900	19,400	5,500	9,000
Educational institution	65,800	56,500	32,000	10,500	3,100	5,600
Government	9,700	8,700	300	2,600	800	1,400
Business/industry	22,600	20,900	700	6,200	1,500	2,000
Physical/related scientists, total ...	77,000	65,700	24,100	15,000	11,000	4,800
Educational institution	38,400	30,100	23,500	5,800	5,000	1,500
Government	7,400	6,600	100	2,300	1,600	600
Business/industry	31,200	29,000	500	6,900	4,500	2,700
Social/related scientists, total	106,700	53,100	53,700	29,700	4,600	47,100
Educational institution	59,500	39,700	48,200	10,000	2,200	10,100
Government	9,000	3,500	900	3,900	700	5,600
Business/industry	38,200	9,900	4,700	15,800	1,700	31,400
Engineers, total	65,000	55,800	17,600	12,700	12,900	6,000
Educational institution	23,700	19,500	17,100	2,900	2,500	800
Government	4,200	3,600	S	1,400	1,000	600
Business/industry	37,200	32,600	400	8,400	9,400	4,600
Non-S&E occupations, total	239,200	88,100	64,300	151,700	18,500	72,100
Educational institution	97,400	40,000	54,300	50,800	5,000	18,300
Government	25,500	9,000	1,400	18,200	2,400	9,500
Business/industry	116,300	39,100	8,600	82,700	11,100	44,400
Managers/administrators	119,000	43,400	12,100	107,100	7,200	18,200
Educational institution	40,400	10,700	9,700	37,400	1,700	4,300
Government	17,200	6,600	300	15,800	700	3,400
Business/industry	61,400	26,200	2,100	53,800	4,800	10,500

See explanatory information, if any, and SOURCE at end of table.

Table E-9. Employed U.S. scientists and engineers, by highest degree attained, broad occupation, employment sector, and primary/secondary work activity : 1993

Highest degree, occupation, and employment sector	Employed S&Es, total	Primary/secondary work activity				
		Research and development	Teaching	Management, sales, admin	Computer applications	Professional services/ other
Doctorate — continued						
Other non-S&E occupations	120,200	44,700	52,100	44,600	11,300	53,900
Educational institution	57,000	29,300	44,500	13,400	3,400	14,000
Government	8,300	2,400	1,100	2,400	1,600	6,000
Business/industry	54,900	12,900	6,500	28,900	6,300	33,800

- 1 Includes professional degrees
- 2 Total excludes 37,000 individuals who reported never having worked.

NOTES: The term "Scientists and Engineers" (S&Es) includes all persons who have ever received a bachelor's degree or higher in a science or engineering (S&E) field, plus persons holding a non-S&E bachelor's or higher degree who are employed in an S&E occupation.
 Figures are rounded to nearest hundred. Details may not add to total because of rounding.
 Sum of primary/secondary work activity categories exceeds total because of multiple responses.

KEY: S = Suppressed for reasons of confidentiality and/or data reliability

SOURCE: National Science Foundation/Science Resources Studies Division, 1993 SESTAT (Scientists and Engineers Statistical Data System)