

**Table A-3. Educational attainment of employed U.S. scientists and engineers, by level and field of highest degree and broad occupation category: 1993**

Level and field of highest degree	All occupations, total		Occupation					
	Number	Percent	Computer/ math scientists	Life/ related scientists	Physical/ related scientists	Social/ related scientists	Engineers	Non-S&E occupa- tions
			Percent					
<b>All degree levels, total<sup>1</sup></b>								
<b>All degree fields, total</b> .....	9,793,500	100.0%	10.1%	3.3%	2.9%	3.2%	14.2%	66.3%
<b>S&amp;E degree fields, total</b> .....	7,035,800	100.0	8.9	3.6	3.7	3.4	16.2	64.2
<b>Sciences, total</b> .....	5,202,100	100.0	9.6	4.8	4.7	4.6	2.6	73.7
<b>Computer/math sciences, total</b> .....	918,000	100.0	40.6	0.1	0.5	0.2	3.6	55.0
Computer/information sciences .....	477,400	100.0	51.7	S	0.1	0.2	2.9	45.1
Mathematical sciences .....	440,600	100.0	28.6	0.2	0.9	0.2	4.3	65.8
<b>Life/related sciences, total</b> .....	1,073,100	100.0	2.0	20.3	2.9	0.3	2.3	72.1
Agricultural/food sciences .....	204,300	100.0	1.2	18.6	1.5	0.2	1.8	76.7
Biological sciences .....	785,100	100.0	2.1	21.3	2.7	0.3	2.1	71.5
Environmental life sciences .....	83,700	100.0	3.5	15.1	7.9	0.7	6.1	67.0
<b>Physical/related sciences, total</b> .....	599,800	100.0	5.5	3.1	33.5	0.2	9.2	48.5
Chemistry, except biochemistry .....	262,800	100.0	3.1	5.1	37.2	0.2	6.4	48.1
Earth science, geology and oceanography .....	144,100	100.0	3.6	1.8	40.4	0.1	5.8	48.4
Physics/astronomy .....	142,100	100.0	12.0	1.1	29.3	0.4	17.3	40.0
Other physical sciences .....	26,700	100.0	4.9	3.4	10.9	S	6.0	74.9
<b>Social/related sciences, total</b> .....	2,611,200	100.0	2.8	0.4	0.3	8.9	0.8	86.8
Economics .....	395,000	100.0	4.0	0.8	0.6	7.3	0.9	86.3
Political/related sciences .....	481,400	100.0	2.5	S	0.1	4.7	1.1	91.5
Psychology .....	960,700	100.0	2.8	0.5	0.1	14.7	0.6	81.3
Sociology/anthropology .....	485,900	100.0	1.5	0.2	0.1	5.9	0.5	91.7
Other social sciences .....	288,200	100.0	3.4	0.8	1.4	3.3	1.4	89.7
<b>Engineering, total</b> .....	1,833,700	100.0	6.7	0.2	0.9	S	55.0	37.2
Aerospace/related engineering .....	78,900	100.0	4.9	S	0.3	S	45.6	49.0
Chemical engineering .....	135,000	100.0	3.0	0.3	3.0	0.1	58.7	34.9
Civil/architectural engineering .....	310,300	100.0	1.1	0.1	0.4	S	58.4	40.0
Electrical/related engineering .....	544,300	100.0	15.2	S	0.3	0.1	55.0	29.5
Industrial engineering .....	103,300	100.0	9.2	0.1	0.1	0.1	35.9	54.7
Mechanical engineering .....	371,500	100.0	2.6	0.1	0.2	S	64.0	33.1
Other engineering .....	289,900	100.0	3.4	0.6	3.2	0.1	47.3	45.5
<b>Non-S&amp;E degrees, total</b> .....	2,757,700	100.0	13.4	2.5	0.7	2.9	9.0	71.5
Business/management .....	657,400	100.0	25.5	1.1	0.6	1.4	15.2	56.1
Education .....	418,600	100.0	12.1	1.8	1.1	5.2	4.1	75.7
Health .....	583,400	100.0	0.9	6.1	0.7	0.8	0.6	90.9
Other non-S&E .....	1,098,400	100.0	13.2	1.7	0.6	4.0	11.6	68.8

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

**Table A-3. Educational attainment of employed U.S. scientists and engineers, by level and field of highest degree and broad occupation category: 1993**

Level and field of highest degree	All occupations, total		Occupation					
	Number	Percent	Computer/ math scientists	Life/ related scientists	Physical/ related scientists	Social/ related scientists	Engineers	Non-S&E occupa- tions
			Percent					
<b>Bachelor's, total</b>								
<b>All degree fields, total</b> .....	5,727,200	100.0%	11.8%	2.3%	2.3%	1.2%	17.0%	65.4%
<b>S&amp;E degree fields, total</b> .....	5,172,600	100.0	8.1	2.0	2.4	1.0	15.9	70.5
<b>Sciences, total</b> .....	3,814,400	100.0	8.9	2.7	3.0	1.4	2.5	81.5
<b>Computer/math sciences, total</b> .....	663,800	100.0	37.1	S	0.5	0.1	3.0	59.2
Computer/information sciences .....	346,200	100.0	50.6	S	0.1	0.1	2.3	46.9
Mathematical sciences .....	317,700	100.0	22.4	0.1	0.9	0.2	3.7	72.7
<b>Life/related sciences, total</b> .....	773,600	100.0	2.2	11.6	2.5	0.2	2.6	80.9
Agricultural/food sciences .....	162,200	100.0	1.1	12.8	0.9	0.2	1.9	83.0
Biological sciences .....	546,400	100.0	2.4	11.0	2.7	0.2	2.5	81.2
Environmental life sciences .....	65,000	100.0	3.1	13.4	5.4	0.3	5.2	72.6
<b>Physical/related sciences, total</b> .....	372,500	100.0	5.7	2.3	23.1	0.1	10.1	58.7
Chemistry, except biochemistry .....	168,800	100.0	3.5	3.8	28.9	0.2	6.8	56.9
Earth science, geology and oceanography .....	94,700	100.0	3.6	1.2	28.7	0.1	6.2	60.1
Physics/astronomy .....	70,700	100.0	14.4	1.0	12.2	0.1	22.1	50.1
Other physical sciences .....	18,800	100.0	2.7	0.5	6.9	S	6.9	83.0
<b>Social/related sciences, total</b> .....	2,004,400	100.0	2.8	0.3	0.3	2.4	0.9	93.3
Economics .....	332,800	100.0	4.1	0.5	0.5	1.7	1.0	92.2
Political/related sciences .....	407,400	100.0	2.7	S	0.1	1.7	1.1	94.4
Psychology .....	619,600	100.0	3.0	0.4	0.1	4.1	0.7	91.7
Sociology/anthropology .....	424,400	100.0	1.4	0.1	0.1	2.0	0.5	95.8
Other social sciences .....	220,300	100.0	3.2	0.5	1.0	1.1	1.4	92.7
<b>Engineering, total</b> .....	1,358,300	100.0	5.9	0.1	0.6	0.1	53.5	39.8
Aerospace/related engineering .....	57,600	100.0	4.9	S	0.2	S	43.6	51.4
Chemical engineering .....	97,700	100.0	2.9	0.2	2.9	0.2	57.1	36.8
Civil/architectural engineering .....	236,700	100.0	0.8	S	0.1	S	56.7	42.3
Electrical/related engineering .....	395,600	100.0	14.3	S	0.2	0.1	54.0	31.4
Industrial engineering .....	82,300	100.0	6.8	S	0.1	S	34.8	58.2
Mechanical engineering .....	301,000	100.0	2.2	0.1	0.1	S	63.4	34.2
Other engineering .....	187,000	100.0	2.2	0.4	2.2	0.1	42.2	52.9
<b>Non-S&amp;E degrees, total</b> .....	554,500	100.0	46.0	4.6	1.4	2.9	27.2	17.8
Business/management .....	178,800	100.0	63.3	3.0	0.8	1.4	20.1	11.4
Education .....	60,100	100.0	43.1	3.8	2.3	1.7	19.5	29.6
Health .....	55,200	100.0	6.0	10.9	3.1	2.4	5.4	72.1
Other non-S&E .....	260,400	100.0	43.3	4.6	1.2	4.4	38.4	8.0

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

**Table A-3. Educational attainment of employed U.S. scientists and engineers, by level and field of highest degree and broad occupation category: 1993**

Level and field of highest degree	All occupations, total		Occupation					
	Number	Percent	Computer/ math scientists	Life/ related scientists	Physical/ related scientists	Social/ related scientists	Engineers	Non-S&E occupa- tions
			Percent					
<b>Master's, total</b>								
<b>All degree fields, total</b> .....	2,575,600	100.0%	10.2%	2.7%	2.8%	5.2%	13.6%	65.4%
<b>S&amp;E degree fields, total</b> .....	1,328,400	100.0	12.2	3.8	4.8	6.8	19.4	53.1
<b>Sciences, total</b> .....	937,700	100.0	13.4	5.3	6.1	9.6	3.1	62.6
<b>Computer/math sciences, total</b> .....	221,400	100.0	46.0	0.2	0.4	0.4	5.4	47.5
Computer/information sciences .....	124,400	100.0	53.5	0.1	0.2	0.6	4.5	41.2
Mathematical sciences .....	97,000	100.0	36.5	0.4	0.7	0.1	6.6	55.6
<b>Life/related sciences, total</b> .....	151,000	100.0	2.1	28.9	4.8	0.4	2.1	61.6
Agricultural/food sciences .....	26,100	100.0	2.3	29.5	3.4	0.4	1.1	62.8
Biological sciences .....	110,200	100.0	1.7	30.7	3.2	0.4	1.3	62.7
Environmental life sciences .....	14,800	100.0	5.4	14.2	18.9	1.4	10.1	50.7
<b>Physical/related sciences, total</b> .....	111,300	100.0	6.9	3.0	42.5	0.4	9.2	38.1
Chemistry, except biochemistry .....	34,000	100.0	3.2	5.6	45.0	0.3	7.6	38.2
Earth science, geology and oceanography .....	34,000	100.0	4.7	2.6	58.5	0.3	5.3	28.8
Physics/astronomy .....	32,400	100.0	12.0	0.3	34.3	0.6	15.1	37.7
Other physical sciences .....	6,500	100.0	12.3	7.7	15.4	S	1.5	63.1
<b>Social/related sciences, total</b> .....	453,900	100.0	2.7	0.5	0.4	19.3	0.7	76.3
Economics .....	41,800	100.0	4.8	2.2	1.4	25.1	1.0	65.6
Political/related sciences .....	58,300	100.0	2.1	S	0.2	12.0	1.5	84.2
Psychology .....	259,700	100.0	2.7	0.2	S	22.7	0.4	73.9
Sociology/anthropology .....	39,900	100.0	1.8	0.8	S	20.3	0.3	76.9
Other social sciences .....	54,200	100.0	3.0	0.6	2.0	5.9	1.7	87.1
<b>Engineering, total</b> .....	390,700	100.0	9.3	0.2	1.6	S	58.6	30.3
Aerospace/related engineering .....	17,900	100.0	5.6	S	0.6	S	48.6	45.3
Chemical engineering .....	24,800	100.0	3.2	0.4	3.2	S	64.1	29.0
Civil/architectural engineering .....	65,100	100.0	1.5	0.2	1.2	S	62.8	34.1
Electrical/related engineering .....	127,300	100.0	18.2	S	0.3	0.1	57.7	23.6
Industrial engineering .....	18,700	100.0	18.7	S	S	S	40.1	41.7
Mechanical engineering .....	59,900	100.0	4.5	0.2	0.5	S	65.9	28.9
Other engineering .....	76,900	100.0	5.3	0.4	4.8	S	56.0	33.3
<b>Non-S&amp;E degrees, total</b> .....	1,247,100	100.0	8.2	1.6	0.7	3.6	7.4	78.5
Business/management .....	462,100	100.0	11.5	0.4	0.6	1.1	13.9	72.5
Education .....	311,100	100.0	6.5	1.3	0.7	4.6	1.5	85.4
Health .....	76,100	100.0	2.1	11.0	2.1	3.7	0.7	80.7
Other non-S&E .....	397,800	100.0	6.8	1.5	0.6	5.7	5.7	79.7

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

**Table A-3. Educational attainment of employed U.S. scientists and engineers, by level and field of highest degree and broad occupation category: 1993**

Level and field of highest degree	All occupations, total		Occupation					
	Number	Percent	Computer/ math scientists	Life/ related scientists	Physical/ related scientists	Social/ related scientists	Engineers	Non-S&E occupa- tions
			Percent					
<b>Doctorate, total</b>								
<b>All degree fields, total</b> .....	634,800	100.0%	7.7%	15.5%	12.1%	16.8%	10.2%	37.7%
<b>S&amp;E degree fields, total</b> .....	529,200	100.0	7.6	18.2	14.3	17.6	11.7	30.7
<b>Sciences, total</b> .....	444,500	100.0	7.7	21.4	16.3	20.9	2.3	31.3
<b>Computer/math sciences, total</b> .....	32,800	100.0	75.3	0.3	0.9	0.6	3.4	19.8
Computer/information sciences .....	6,800	100.0	75.0	S	S	1.5	2.9	20.6
Mathematical sciences .....	26,000	100.0	75.4	0.4	1.2	0.4	3.5	19.6
<b>Life/related sciences, total</b> .....	148,500	100.0	1.3	57.1	2.8	0.6	0.9	37.4
Agricultural/food sciences .....	16,100	100.0	0.6	59.0	3.7	0.6	0.6	34.8
Biological sciences .....	128,500	100.0	1.3	57.2	2.5	0.5	0.8	37.7
Environmental life sciences .....	3,900	100.0	2.6	43.6	7.7	5.1	5.1	35.9
<b>Physical/related sciences, total</b> .....	115,900	100.0	3.5	6.0	58.2	0.2	6.4	25.8
Chemistry, except biochemistry .....	60,000	100.0	1.7	8.7	56.3	S	4.5	29.0
Earth science, geology and oceanography .....	15,400	100.0	1.3	3.9	72.1	S	3.2	19.5
Physics/astronomy .....	39,000	100.0	7.2	2.1	56.4	0.3	10.3	23.8
Other physical sciences .....	1,400	100.0	S	28.6	35.7	S	7.1	21.4
<b>Social/related sciences, total</b> .....	147,300	100.0	2.4	2.4	0.5	62.3	0.4	32.0
Economics .....	20,400	100.0	1.5	1.5	S	63.7	S	33.3
Political/related sciences .....	15,600	100.0	1.3	S	0.6	55.8	0.6	41.7
Psychology .....	75,900	100.0	1.7	2.8	S	70.6	0.4	24.5
Sociology/anthropology .....	21,700	100.0	3.2	1.4	0.5	57.6	0.5	37.3
Other social sciences .....	13,700	100.0	8.8	5.8	3.6	28.5	0.7	52.6
<b>Engineering, total</b> .....	84,700	100.0	7.0	0.9	3.5	0.1	60.8	27.7
Aerospace/related engineering .....	3,400	100.0	2.9	S	S	S	67.6	29.4
Chemical engineering .....	12,500	100.0	3.2	0.8	4.8	S	60.0	30.4
Civil/architectural engineering .....	8,500	100.0	5.9	S	2.4	S	70.6	21.2
Electrical/related engineering .....	21,400	100.0	12.6	0.5	2.3	S	55.1	29.4
Industrial engineering .....	2,300	100.0	21.7	4.3	S	S	43.5	34.8
Mechanical engineering .....	10,700	100.0	2.8	S	2.8	S	71.0	23.4
Other engineering .....	26,000	100.0	5.8	1.9	5.8	S	58.1	28.1
<b>Non-S&amp;E degrees, total</b> .....	105,600	100.0	8.1	1.9	1.4	13.0	3.0	72.5
Business/management .....	11,900	100.0	9.2	1.7	S	13.4	S	75.6
Education .....	41,300	100.0	10.4	2.7	1.7	15.5	1.7	68.3
Health .....	S	S	S	S	S	S	S	S
Other non-S&E .....	52,400	100.0	6.1	1.3	1.5	11.1	4.8	75.2

1 Includes professional degrees

**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.

**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)