Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Railroads (SIC 4010)			
Scientific and technical personnel	1,700	0.7	(nc)
Scientists	390	.2	(nc)
Operations and systems researchers and analysts	60	<	0
Computer analysts	330	.1	0
Managers of scientific and technical personnel	590	.2	0
Engineers	540	.2	(nc)
Civil	200	.1	0
Other, n.e.c	340	.1	0
Technicians	180	.1	0
Computer programmers	180	.1	0
Local and suburban transportation (SIC 4110)			
Scientific and technical personnel	450	.3	(nc)
Scientists	70	<	(nc)
Life scientists	20	<	0
Computer analysts	50	<	6
Managers of scientific and technical personnel	50	<	0
Engineers	240	.1	(nc)
Technicians	90	<	4
Computer programmers	90	<	4
Taxicabs (SIC 4120)			
Scientific and technical personnel	20	<	(nc)
Scientists	10	<	42
Computer analysts	10	<	42
Technicians	10	<	0
Computer programmers	10	<	0
Bus charter service (SIC 4140)			
Scientific and technical personnel	10	<	0
Technicians	10	<	0
Computer programmers	10	<	0
School buses (SIC 4150)			
Scientific and technical personnel	30	<	(nc)
Scientists	10	.0	(nc)
Computer analysts	10	.0	(nc)
Managers of scientific and technical personnel	10	<	17
Technicians	10	<	12

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
School buses (SIC 4150)—continued:			
Computer programmers	10	<	12
Trucking and courier services, excluding air (SIC 4210)			
Scientific and technical personnel	4,050	.2	(nc)
Scientists	850	<	(nc)
Physical scientists	10	.0	42
Computer analysts	840	<	6
Managers of scientific and technical personnel	590	<	6
Engineers	970	.1	4
Technicians	1,640	.1	(nc)
Computer programmers	1,620	.1	9
Physical and life science technicians	20	.0	24
Public warehousing and storage (SIC 4220)			
Scientific and technical personnel	700	.5	(nc)
Scientists	150	.1	(nc)
Physical scientists	20	<	70
Computer analysts	130	.1	4
Managers of scientific and technical personnel	100	.1	4
Engineers	210	.2	15
Technicians	240	.2	(nc)
Computer programmers	220	.2	10
Physical and life science technicians	20	<	39
Deep sea foreign transportation of freight (SIC 4410)			
Scientific and technical personnel	430	2.5	(nc)
Scientists	100	.6	0
Computer analysts	100	.6	0
Managers of scientific and technical personnel	70	.4	2
Engineers	200	1.2	(nc)
Marine	140	.8	0
Mechanical	30	.2	0
Other, n.e.c	30	.2	0
Technicians	60	.3	(nc)
Computer programmers	50	.3	0
Physical and life science technicians	10	.1	0
Deep sea domestic transportation of freight (SIC 4420)			
Scientific and technical personnel	290	2.5	(nc)
Scientists	50	.4	(nc)

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Deep sea domestic transportation of freight (SIC 4420)—continued:			
Computer analysts	50	0.4	(nc)
Managers of scientific and technical personnel	40	.4	0
Engineers	170	1.5	(nc)
Marine	120	1.1	0
Mechanical	20	.2	0
Other, n.e.c	30	.2	0
Technicians	30	.3	0
Computer programmers	30	.3	0
Freight transportation on the Great Lakes (SIC 4430)			
Scientific and technical personnel	10	.5	(nc)
Engineers	10	.5	(nc)
Marine	10	.5	0
Water transportation of freight, n.e.c. (SIC 4440)			
Scientific and technical personnel	240	1.8	(nc)
Scientists	60	.4	(nc)
Computer analysts	60	.4	(nc)
Managers of scientific and technical personnel	20	.2	0
Engineers	150	1.1	(nc)
Marine	90	.7	0
Mechanical	40	.3	0
Other, n.e.c	20	.2	23
Technicians	10	.1	0
Computer programmers	10	.1	0
Water transportation of passengers (SIC 4480)			
Scientific and technical personnel	140	.8	(nc)
Scientists	30	.2	(nc)
Computer analysts	30	.2	(nc)
Managers of scientific and technical personnel	10	.1	0
Engineers	80	.4	(nc)
Marine	60	.3	0
Mechanical	20	.1	0
Technicians	20	.1	0
Computer programmers	20	.1	0
Water transportation services (SIC 4490)			
Scientific and technical personnel	1,190	1.0	(nc)

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Water transportation services (SIC 4490)—continued:			
Scientists	50	<	10
Computer analysts	50	<	10
Managers of scientific and technical personnel	40	<	7
Engineers	1,030	.9	(nc)
Marine	990	.8	26
Mechanical	20	<	0
Other, n.e.c	20	<	0
Technicians	70	.1	(nc)
Computer programmers	60	.1	9
Physical and life science technicians	10	<	0
Air transportation, scheduled (SIC 4510)			
Scientific and technical personnel	11,930	1.9	(nc)
Scientists	3,750	.6	(nc)
Operations and systems researchers and analysts	990	.2	<
Physical scientists	80	<	0
Computer analysts	2,680	.4	1
Managers of scientific and technical personnel	1,050	.2	2
Engineers	1,960	.3	(nc)
Aeronautical	320	<	0
Computer	370	.1	2
Electrical/electronics	280	<	1
Industrial	480	.1	3
Other, n.e.c	510	.1	6
Technicians	5,170	.8	(nc)
Computer programmers	2,830	.5	<
Electrical/electronics engineering technicians	700	.1	0
All other engineering technicians	1,610	.3	<
Physical and life science technicians	30	<	57
Air transportation, nonscheduled (SIC 4520)			
Scientific and technical personnel	270	.7	(nc)
Scientists	40	.1	(nc)
Computer analysts	40	.1	(nc)
Managers of scientific and technical personnel	90	.2	0
Engineers	70	.2	(nc)
Aeronautical	40	.1	0
Other, n.e.c	30	.1	(nc)
Technicians	70	.2	5
Computer programmers	70	.2	5

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Airports, flying fields, and services (SIC 4580)			
Scientific and technical personnel	1,080	1.0	(nc)
Scientists	60	.1	(nc)
Operations and systems researchers and analysts	20	<	0
Computer analysts	40	<	0
Managers of scientific and technical personnel	140	.1	3
Engineers	390	.4	(nc)
Aeronautical	180	.2	17
Computer	20	<	46
Electrical/electronics	70	.1	3
Industrial	70	.1	5
Other, n.e.c	50	<	2
Technicians	490	.5	(nc)
Computer programmers	60	<	3
Electrical/electronics engineering technicians	120	.1	1
All other engineering technicians	280	.3	16
Physical and life science technicians	30	<	24
Passenger transportation arrangements (SIC 4720)			
Scientific and technical personnel	1,000	.5	(nc)
Scientists	170	.1	2
Computer analysts	170	.1	2
Managers of scientific and technical personnel	30	<	0
Technicians	800	.4	<
Computer programmers	800	.4	<
Freight transportation arrangements (SIC 4730)			
Scientific and technical personnel	1,560	1.0	(nc)
Scientists	610	.4	1
Computer analysts	610	.4	1
Managers of scientific and technical personnel	120	.1	3
Engineers	90	.1	30
Technicians	740	.5	18
Computer programmers	740	.5	18
Rental of railroad cars (SIC 4740)			
Scientific and technical personnel	260	11.2	(nc)
Scientists	120	4.9	(nc)
Physical scientists	10	.3	0
Computer analysts	110	4.7	(nc)
Managers of scientific and technical personnel	60	2.8	0

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Rental of railroad cars (SIC 4740)—continued:			
Engineers	60	2.5	0
Technicians	20	1.0	19
Computer programmers	20	1.0	19
Misc. transportation services (SIC 4780)			
Scientific and technical personnel	190	.6	(nc)
Scientists	30	.1	(nc)
Physical scientists	10	<	0
Computer analysts	20	.1	0
Managers of scientific and technical personnel	10	<	0
Engineers	60	.2	0
Technicians	90	.2	(nc)
Computer programmers	30	.1	12
Physical and life science technicians	60	.2	30
Telephone communications (SIC 4810)			
Scientific and technical personnel	56,580	6.4	(nc)
Scientists	7,290	.8	(nc)
Life scientists	50	<	83
Social scientists	150	<	4
Computer analysts	7,090	.8	12
Managers of scientific and technical personnel	4,630	.5	13
Engineers	20,010	2.3	(nc)
Civil	920	.1	14
Computer	1,670	.2	12
Electrical/electronics	12,720	1.4	12
Industrial	760	.1	21
Mechanical	190	<	11
Other, n.e.c	3,750	.4	6
Technicians	24,650	2.8	(nc)
Computer programmers	7,810	.9	4
Drafters	4,430	.5	10
Electrical/electronics engineering technicians	7,760	.9	10
Mechanical engineering technicians	20	.0	5
Civil engineering technicians	2,000	.2	43
All other engineering technicians	2,620	.3	(nc)
Physical and life science technicians	10	.0	60
Telegraph and other communications (SIC 4820)			
Scientific and technical personnel	1,400	18.7	(nc)
Scientists	220	2.9	(nc)
Computer analysts	220	2.9	(nc)

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Telegraph and other communications (SIC 4820)—continued:			
Managers of scientific and technical personnel	240	3.2	12
Engineers	630	8.4	(nc)
Computer	340	4.5	37
Electrical/electronics	280	3.8	2
Other, n.e.c	10	.2	(nc)
Technicians	310	4.1	(nc)
Computer programmers	100	1.3	2
Electrical/electronics engineering technicians	140	1.9	16
All other engineering technicians	70	.9	(nc)
Radio and television broadcasting (SIC 4830)			
Scientific and technical personnel	33,790	14.4	(nc)
Scientists	950	.4	(nc)
Physical scientists	20	<	0
Social scientists	230	.1	13
Computer analysts	700	.3	2
Managers of scientific and technical personnel	1,490	.6	6
Engineers	2,120	.9	(nc)
Civil	10	.0	0
Computer	210	.1	21
Electrical/electronics	1,480	.6	3
Industrial	100	<	23
Mechanical	50	<	13
Other, n.e.c	270	.1	17
Technicians	29,230	12.5	(nc)
Computer programmers	110	<	6
Electrical/electronics engineering technicians	1,350	.6	7
Mechanical engineering technicians	70	<	3
Civil engineering technicians	30	<	16
All other engineering technicians	27,660	11.8	(nc)
Physical and life science technicians	10	.0	0
Cable and other pay TV services (SIC 4840)			
Scientific and technical personnel	9,760	6.8	(nc)
Scientists	280	.2	(nc)
Social scientists	90	.1	3
Computer analysts	190	.1	15
Managers of scientific and technical personnel	760	.5	5
Engineers	840	.6	(nc)
Civil	30	<	34
Computer	150	.1	5
Electrical/electronics	480	.3	8

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Cable and other pay TV services (SIC 4840)—continued:			
Industrial	30	<	10
Mechanical	40	<	0
Other, n.e.c	110	.1	13
Technicians	7,880	5.5	(nc)
Computer programmers	250	.2	16
Drafters	450	.3	4
Electrical/electronics engineering technicians	1,250	.9	6
Mechanical engineering technicians	20	<	0
Civil engineering technicians	90	.1	50
All other engineering technicians	5,820	4.1	(nc)
Communications services, n.e.c. (SIC 4890)			
Scientific and technical personnel	7,410	41.9	(nc)
Scientists	670	3.8	(nc)
Physical scientists	20	.1	25
Computer analysts	650	3.7	0
Managers of scientific and technical personnel	1,040	5.9	9
Engineers	3,440	19.5	(nc)
Civil	20	.1	0
Computer	310	1.8	12
Electrical/electronics	2,710	15.3	1
Industrial	30	.2	7
Mechanical	60	.3	20
Other, n.e.c	310	1.8	4
Technicians	2,260	12.8	(nc)
Computer programmers	510	2.9	<
Drafters	130	.7	2
Electrical/electronics engineering technicians	710	4.0	2
Civil engineering technicians	30	.2	3
All other engineering technicians	880	4.9	(nc)
Electric services (SIC 4910)			
Scientific and technical personnel	63,520	15.2	(nc)
Scientists	6,440	1.6	(nc)
All other mathematicians	240	.1	6
Geologists, geophysicists, and earth scientists	40	<	0
All other physical scientists	1,160	.3	11
Life scientists	890	.2	2
Social scientists	210	<	9
Computer analysts	3,900	.9	1
Managers of scientific and technical personnel	5,220	1.2	2
Engineers	25,800	6.2	(nc)
Chemical	500	.1	2
Civil	1,530	.4	3
Computer	490	.1	2

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Electric services (SIC 4910)—continued:			
Electrical/electronics	12,690	3.0	1
Industrial	1,640	.4	2
Mechanical	2,040	.5	1
Safety	1,120	.3	1
Nuclear	2,910	.7	0
Other, n.e.c	2,880	.7	2
Technicians	26,060	6.2	(nc)
Computer programmers	1,790	.4	2
Drafters	5,960	1.4	(nc)
Surveyors	1,520	.4	(nc)
Electrical/electronics engineering technicians	5,720	1.4	1
Mechanical engineering technicians	1,560	.4	6
Civil engineering technicians	490	.1	4
All other engineering technicians	7,140	1.7	1
Physical and life science technicians	1,880	.4	1
Gas production and distribution (SIC 4920)			
Scientific and technical personnel	10,630	6.7	(nc)
Scientists	1,700	1.1	(nc)
All other mathematicians	140	.1	0
Geologists, geophysicists, and earth scientists	70	<	41
All other physical scientists	180	.1	15
Life scientists	20	<	0
Social scientists	60	<	0
Computer analysts	1,230	.8	3
Managers of scientific and technical personnel	1,340	.8	4
Engineers	2,670	1.7	(nc)
Chemical	40	<	0
Civil	610	.4	11
Computer	40	<	0
Electrical/electronics	270	.2	4
Industrial	270	.2	2
Mechanical	470	.3	15
Safety	120	.1	6
Other, n.e.c	850	.5	4
Technicians	4,920	3.1	(nc)
Computer programmers	840	.5	4
Drafters	1,120	.7	(nc)
Surveyors	510	.3	(nc)
Electrical/electronics engineering technicians	370	.2	5
Mechanical engineering technicians	270	.2	11
Civil engineering technicians	420	.3	3
All other engineering technicians	1,250	.8	5
Physical and life science technicians	140	.1	13
Combination utility services (SIC 4930)			
Scientific and technical personnel	25,150	13.8	(nc)

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Combination utility services (SIC 4930)—continued:			
Scientists	3,600	2.0	(nc)
All other mathematicians	50	<	0
Life scientists	110	.1	6
Social scientists	80	<	0
Computer analysts	3,360	1.8	<
Managers of scientific and technical personnel	1,500	.8	2
Engineers	9,780	5.4	(nc)
Chemical	110	.1	11
Civil	1,030	.6	1
Computer	90	<	2
Electrical/electronics	4,000	2.2	1
Industrial	640	.4	2
Mechanical	940	.5	1
Safety	160	.1	0
Nuclear	320	.2	0
Other, n.e.c	2,490	1.4	1
Technicians	10,270	5.6	(nc)
Computer programmers	1,240	.7	<
Drafters	2,670	1.5	(nc)
Surveyors	790	.4	(nc)
Electrical/electronics engineering technicians	1,250	.7	3
Mechanical engineering technicians	330	.2	<
Civil engineering technicians	100	<	4
All other engineering technicians	3,700	2.0	1
Physical and life science technicians	190	.1	5
Water supply (SIC 4940)			
Scientific and technical personnel	1,110	4.1	(nc)
Scientists	150	.5	(nc)
Geologists, geophysicists, and earth scientists	30	.1	10
All other physical scientists	60	.2	6
Life scientists	20	.1	0
Computer analysts	40	.1	3
Managers of scientific and technical personnel	230	.9	11
Engineers	200	.7	(nc)
Civil	120	.4	6
Computer	10	<	17
Industrial	10	<	0
Mechanical	20	.1	0
Safety	10	<	11
Other, n.e.c	30	.1	(nc)
Technicians	530	2.0	(nc)
Computer programmers	50	.2	6
Drafters	200	.8	(nc)
Surveyors	20	.1	0

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Water supply (SIC 4940)—continued:			
Electrical/electronics engineering technicians	20	0.1	0
Civil engineering technicians	40	.1	5
All other engineering technicians	100	.4	(nc)
Physical and life science technicians	100	.4	36
Sanitary services (SIC 4950)			
Scientific and technical personnel	6,290	4.4	(nc)
Scientists	1,200	.8	(nc)
Geologists, geophysicists, and earth scientists	240	.2	11
All other physical scientists	640	.4	15
Life scientists	140	.1	13
Social scientists	10	<	0
Computer analysts	170	.1	2
Managers of scientific and technical personnel	1,180	.8	10
Engineers	1,380	1.0	(nc)
Chemical	90	.1	7
Civil	290	.2	6
Computer	40	<	3
Electrical/electronics	70	<	0
Industrial	120	.1	3
Mechanical	150	.1	3
Safety	250	.2	3
Other, n.e.c	370	.3	(nc)
Technicians	2,530	1.8	(nc)
Computer programmers	90	.1	3
Drafters	240	.2	(nc)
Surveyors	130	.1	(nc)
Electrical/electronics engineering technicians	50	<	2
Civil engineering technicians	140	.1	4
All other engineering technicians	1,190	.8	(nc)
Physical and life science technicians	690	.5	6
Steam and air-conditioning supply (SIC 4960)			
Scientific and technical personnel	90	4.4	(nc)
Managers of scientific and technical personnel	40	2.2	3
Engineers	30	1.4	(nc)
Mechanical	10	.5	0
Other, n.e.c	20	1.0	(nc)
Technicians	20	.8	(nc)
Drafters	10	.4	14
All other engineering technicians	10	.4	(nc)
Irrigation systems (SIC 4970)			
Scientific and technical personnel	10	.4	0
Managers of scientific and technical personnel	10	.4	0

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Motor vehicles, parts, and supplies (SIC 5010)			
Scientific and technical personnel	4,100	0.9	(nc)
Scientists	580	.1	(nc)
Physical scientists	10	.0	0
Computer analysts	570	.1	4
Managers of scientific and technical personnel	300	.1	7
Engineers	1,420	.3	(nc)
Electrical/electronics	180	<	21
Mechanical	210	<	18
Sales	230	<	9
Other, n.e.c	800	.2	13
Technicians	1,800	.4	(nc)
Computer programmers	450	.1	4
Drafters	150	<	12
Electrical/electronics engineering technicians	760	.2	18
Mechanical engineering technicians	120	<	7
All other engineering technicians	310	.1	15
Physical and life science technicians	10	.0	95
Furniture and homefurnishings (SIC 5020)			
Scientific and technical personnel	760	.5	(nc)
Scientists	110	.1	5
Computer analysts	110	.1	5
Managers of scientific and technical personnel	90	.1	6
Engineers	80	<	(nc)
Mechanical	10	<	0
Other, n.e.c	70	<	(nc)
Technicians	480	.3	(nc)
Computer programmers	190	.1	4
Drafters	120	.1	9
Electrical/electronics engineering technicians	150	.1	38
All other engineering technicians	20	<	(nc)
Lumber and construction materials (SIC 5030)			
Scientific and technical personnel	1,550	.7	(nc)
Scientists	140	.1	(nc)
Physical scientists	30	<	20
Computer analysts	110	<	6
Managers of scientific and technical personnel	100	<	4
Engineers	450	.2	(nc)
Electrical/electronics	40	<	18
Mechanical	60	<	11
Sales	190	.1	20

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Lumber and construction materials (SIC 5030)—continued:			
Other, n.e.c	160	0.1	8
Technicians	860	.4	(nc)
Computer programmers	110	<	2
Drafters	480	.2	11
Electrical/electronics engineering technicians	80	<	22
Mechanical engineering technicians	40	<	42
All other engineering technicians	130	.1	9
Physical and life science technicians	20	<	19
Professional and commercial equipment (SIC 5040)			
Scientific and technical personnel	74,500	9.6	(nc)
Scientists	8,150	1.0	(nc)
Physical scientists	280	<	18
Life scientists	270	<	10
Computer analysts	7,600	1.0	7
Managers of scientific and technical personnel	4,240	.6	8
Engineers	17,710	2.3	(nc)
Electrical/electronics	4,030	.5	10
Mechanical	1,320	.2	20
Sales	4,860	.6	8
Other, n.e.c	7,500	1.0	6
Technicians	44,400	5.7	(nc)
Computer programmers	12,440	1.6	5
Drafters	760	.1	18
Electrical/electronics engineering technicians	26,670	3.4	4
Mechanical engineering technicians	570	.1	19
All other engineering technicians	3,160	.4	14
Physical and life science technicians	800	.1	13
Metals and minerals, except petroleum (SIC 5050)			
Scientific and technical personnel	2,050	1.5	(nc)
Scientists	220	.2	(nc)
Physical scientists	40	<	23
Life scientists	40	<	0
Computer analysts	140	.1	5
Managers of scientific and technical personnel	190	.1	11
Engineers	680	.5	(nc)
Electrical/electronics	50	<	16
Mechanical	120	.1	8
Sales	190	.1	7
Other, n.e.c	320	.2	28
Technicians	960	.7	(nc)
Computer programmers	230	.2	3

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Metals and minerals, except petroleum (SIC 5050)—continued:			
Drafters	400	0.3	8
Electrical/electronics engineering technicians	200	.2	22
Mechanical engineering technicians	60	<	17
All other engineering technicians	50	<	14
Physical and life science technicians	20	<	58
Electrical goods (SIC 5060)			
Scientific and technical personnel	45,880	9.7	(nc)
Scientists	1,450	.3	(nc)
Physical scientists	40	<	0
Computer analysts	1,410	.3	7
Managers of scientific and technical personnel	2,240	.5	7
Engineers	15,570	3.3	(nc)
Electrical/electronics	5,910	1.2	9
Mechanical	930	.2	18
Sales	5,150	1.1	5
Other, n.e.c	3,580	.8	14
Technicians	26,620	5.6	(nc)
Computer programmers	1,920	.4	9
Drafters	650	.1	11
Electrical/electronics engineering technicians	22,100	4.7	6
Mechanical engineering technicians	240	<	23
All other engineering technicians	1,690	.4	16
Physical and life science technicians	20	.0	0
Hardware, plumbing, and heating equipment (SIC 5070)			
Scientific and technical personnel	4,680	1.6	(nc)
Scientists	180	.1	(nc)
Physical scientists	10	.0	18
Computer analysts	170	.1	4
Managers of scientific and technical personnel	210	.1	11
Engineers	1,630	.6	(nc)
Electrical/electronics	170	.1	11
Mechanical	530	.2	13
Sales	750	.3	7
Other, n.e.c	180	.1	14
Technicians	2,660	.9	(nc)
Computer programmers	350	.1	4
Drafters	240	.1	5
Electrical/electronics engineering technicians	1,780	.6	14
Mechanical engineering technicians	180	.1	31
All other engineering technicians	100	<	14
Physical and life science technicians	10	.0	76

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Machinery, equipment, and supplies (SIC 5080)			
Scientific and technical personnel	22,150	2.9	(nc)
Scientists	760	.1	(nc)
Physical scientists	60	<	29
Life scientists	10	.0	53
Computer analysts	690	.1	4
Managers of scientific and technical personnel	1,060	.1	7
Engineers	7,620	1.0	(nc)
Electrical/electronics	1,190	.2	11
Mechanical	2,080	.3	11
Sales	2,810	.4	10
Other, n.e.c	1,540	.2	17
Technicians	12,710	1.7	(nc)
Computer programmers	920	.1	9
Drafters	1,060	.1	8
Electrical/electronics engineering technicians	9,090	1.2	9
Mechanical engineering technicians	670	.1	17
All other engineering technicians	890	.1	15
Physical and life science technicians	80	<	28
Miscellaneous durable goods (SIC 5090)			
Scientific and technical personnel	3,120	1.0	(nc)
Scientists	480	.2	(nc)
Physical scientists	90	<	26
Life scientists	20	<	21
Computer analysts	370	.1	5
Managers of scientific and technical personnel	330	.1	5
Engineers	520	.2	(nc)
Electrical/electronics	90	<	11
Mechanical	160	<	27
Sales	90	<	14
Other, n.e.c	180	.1	5
Technicians	1,790	.6	(nc)
Computer programmers	620	.2	4
Drafters	120	<	22
Electrical/electronics engineering technicians	800	.3	10
Mechanical engineering technicians	40	<	5
All other engineering technicians	130	<	38
Physical and life science technicians	80	<	12
Paper and paper products (SIC 5110)			
Scientific and technical personnel	1,670	.7	(nc)
Scientists	360	.2	(nc)
Physical scientists	10	<	53
Computer analysts	350	.1	4

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Paper and paper products (SIC 5110)—continued:			
Managers of scientific and technical personnel	100	<	6
Engineers	260	.1	(nc)
Electrical/electronics	10	.0	29
Mechanical	70	<	9
Sales	50	<	36
Other, n.e.c	130	<	73
Technicians	950	.4	(nc)
Computer programmers	510	.2	7
Drafters	70	<	38
Electrical/electronics engineering technicians	280	.1	32
All other engineering technicians	80	<	(nc)
Physical and life science technicians	10	.0	38
Drugs, proprietaries, and sundries (SIC 5120)			
Scientific and technical personnel	4,150	2.0	(nc)
Scientists	1,060	.5	(nc)
Physical scientists	410	.2	3
Life scientists	190	.1	3
Computer analysts	460	.2	2
Managers of scientific and technical personnel	680	.3	6
Engineers	700	.3	(nc)
Electrical/electronics	50	<	0
Mechanical	70	<	22
Sales	460	.2	0
Other, n.e.c	120	.1	4
Technicians	1,710	.8	(nc)
Computer programmers	830	.4	1
Drafters	20	<	6
Electrical/electronics engineering technicians	150	.1	18
Mechanical engineering technicians	160	.1	0
All other engineering technicians	110	<	0
Physical and life science technicians	440	.2	1
Apparel, piece goods, and notions (SIC 5130)			
Scientific and technical personnel	1,800	.8	(nc)
Scientists	540	.2	3
Computer analysts	540	.2	3
Managers of scientific and technical personnel	230	.1	4
Engineers	210	.1	(nc)
Electrical/electronics	10	<	0
Mechanical	20	<	0
Sales	80	<	70
Other, n.e.c	100	<	8

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Apparel, piece goods, and notions (SIC 5130)—continued:			
Technicians	820	0.4	(nc)
Computer programmers	570	.3	15
Drafters	160	.1	11
Electrical/electronics engineering technicians	30	<	33
All other engineering technicians	40	<	(nc)
Physical and life science technicians	20	<	0
Groceries and related products (SIC 5140)			
Scientific and technical personnel	5,280	.6	(nc)
Scientists	1,010	.1	(nc)
Physical scientists	20	.0	10
Life scientists	50	<	10
Computer analysts	940	.1	3
Managers of scientific and technical personnel	550	.1	4
Engineers	790	.1	(nc)
Electrical/electronics	130	<	13
Mechanical	210	<	15
Sales	310	<	<
Other, n.e.c	140	<	27
Technicians	2,930	.3	(nc)
Computer programmers	1,960	.2	2
Drafters	150	<	6
Electrical/electronics engineering technicians	300	<	23
Mechanical engineering technicians	50	<	15
All other engineering technicians	180	<	26
Physical and life science technicians	290	<	22
Farm-product raw materials (SIC 5150)			
Scientific and technical personnel	400	.4	(nc)
Scientists	110	.1	(nc)
Life scientists	50	<	13
Computer analysts	60	<	3
Managers of scientific and technical personnel	20	<	4
Engineers	40	<	(nc)
Mechanical	20	<	0
Other, n.e.c	20	<	(nc)
Technicians	230	.2	(nc)
Computer programmers	130	.1	3
Drafters	10	<	0
Electrical/electronics engineering technicians	30	<	34
All other engineering technicians	30	<	0
Physical and life science technicians	30	<	4

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Chemicals and allied products (SIC 5160)			
Scientific and technical personnel	5,070	3.4	(nc)
Scientists	1,220	.8	(nc)
Physical scientists	1,040	.7	5
Life scientists	90	.1	55
Computer analysts	90	.1	7
Managers of scientific and technical personnel	370	.2	2
Engineers	1,740	1.2	(nc)
Electrical/electronics	40	<	46
Mechanical	210	.1	14
Sales	1,120	.8	11
Other, n.e.c	370	.2	11
Technicians	1,740	1.2	(nc)
Computer programmers	150	.1	4
Drafters	30	<	0
Electrical/electronics engineering technicians	350	.2	14
Mechanical engineering technicians	70	<	33
All other engineering technicians	160	.1	16
Physical and life science technicians	980	.7	4
Petroleum and petroleum products (SIC 5170)			
Scientific and technical personnel	2,190	1.3	(nc)
Scientists	550	.3	(nc)
Physical scientists	100	.1	7
Life scientists	20	<	0
Computer analysts	430	.3	2
Managers of scientific and technical personnel	210	.1	4
Engineers	660	.4	(nc)
Mechanical	120	.1	7
Sales	70	<	17
Other, n.e.c	470	.3	(nc)
Technicians	770	.5	(nc)
Computer programmers	260	.2	3
Drafters	60	<	13
Electrical/electronics engineering technicians	170	.1	26
Mechanical engineering technicians	50	<	21
All other engineering technicians	160	.1	13
Physical and life science technicians	70	<	18
Beer, wine, and distilled beverages (SIC 5180)			
Scientific and technical personnel	660	.4	(nc)
Scientists	140	.1	(nc)
Life scientists	10	<	11
Computer analysts	130	.1	7

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Beer, wine, and distilled beverages (SIC 5180)—continued:			
Managers of scientific and technical personnel	50	<	4
Engineers	70	<	(nc)
Electrical/electronics	20	<	20
Mechanical	40	<	4
Other, n.e.c	10	.0	17
Technicians	400	.2	(nc)
Computer programmers	200	.1	7
Drafters	20	<	31
Physical and life science technicians	180	.1	0
Misc. nondurable goods (SIC 5190)			
Scientific and technical personnel	4,090	.8	(nc)
Scientists	1,310	.3	(nc)
Physical scientists	230	<	30
Life scientists	540	.1	8
Computer analysts	540	.1	4
Managers of scientific and technical personnel	520	.1	9
Engineers	320	.1	(nc)
Electrical/electronics	40	<	3
Mechanical	60	<	4
Sales	120	<	13
Other, n.e.c	100	<	28
Technicians	1,940	.4	(nc)
Computer programmers	800	.2	4
Drafters	30	<	13
Electrical/electronics engineering technicians	610	.1	60
All other engineering technicians	60	<	(nc)
Physical and life science technicians	440	.1	9
Lumber and other building materials (SIC 5210)			
Scientific and technical personnel	2,230	.4	(nc)
Scientists	350	.1	3
Computer analysts	350	.1	3
Managers of scientific and technical personnel	100	<	4
Engineers	190	<	(nc)
Mechanical	10	.0	18
Sales	140	<	12
Other, n.e.c	40	<	(nc)
Technicians	1,590	.3	(nc)
Computer programmers	350	.1	4
Drafters	1,120	.2	10

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Lumber and other building materials (SIC 5210)—continued:			
All other engineering technicians	120	<	(nc)
Paint, glass, and wallpaper stores (SIC 5230)			
Scientific and technical personnel	120	.2	(nc)
Scientists	40	.1	(nc)
Computer analysts	40	.1	(nc)
Managers of scientific and technical personnel	20	<	0
Technicians	60	.1	(nc)
Computer programmers	20	<	0
Drafters	20	<	23
All other engineering technicians	10	<	(nc)
Physical and life science technicians	10	<	0
Hardware stores (SIC 5250)			
Scientific and technical personnel	300	.2	(nc)
Scientists	240	.1	(nc)
Physical scientists	10	.0	0
Computer analysts	230	.1	(nc)
Managers of scientific and technical personnel	10	<	0
Engineers	10	.0	(nc)
Technicians	40	<	41
Drafters	40	<	41
Retail nurseries and garden stores (SIC 5260)			
Scientific and technical personnel	140	.1	(nc)
Engineers	20	<	42
Sales	20	<	42
Technicians	120	.1	(nc)
Computer programmers	10	<	33
Drafters	110	.1	11
Department stores (SIC 5310)			
Scientific and technical personnel	5,390	.2	(nc)
Scientists	1,640	.1	3
Computer analysts	1,640	.1	3
Managers of scientific and technical personnel	890	<	11
Engineers	1,350	.1	(nc)
Electrical/electronics	130	<	6
Mechanical	380	<	3
Sales	730	<	10

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Department stores (SIC 5310)—continued:			
Other, n.e.c	110	0.0	7
Technicians	1,510	.1	(nc)
Computer programmers	950	<	3
Drafters	300	<	4
Electrical/electronics engineering technicians	140	<	46
Mechanical engineering technicians	20	.0	0
All other engineering technicians	100	.0	22
Variety stores (SIC 5330)			
Scientific and technical personnel	310	.2	(nc)
Scientists	70	<	0
Computer analysts	70	<	0
Managers of scientific and technical personnel	40	<	0
Engineers	30	<	(nc)
Technicians	170	.1	(nc)
Computer programmers	160	.1	0
Drafters	10	<	0
Misc. general merchandise stores (SIC 5390)			
Scientific and technical personnel	230	.1	(nc)
Scientists	150	.1	(nc)
Computer analysts	150	.1	(nc)
Technicians	80	<	16
Computer programmers	80	<	16
Grocery stores (SIC 5410)			
Scientific and technical personnel	1,880	.1	(nc)
Scientists	520	<	3
Computer analysts	520	<	3
Managers of scientific and technical personnel	190	<	4
Engineers	140	.0	(nc)
Electrical/electronics	20	.0	0
Mechanical	10	.0	0
Sales	50	.0	36
Other, n.e.c	60	.0	12
Technicians	1,030	<	(nc)
Computer programmers	870	<	19
Drafters	90	.0	0
Electrical/electronics engineering technicians	40	.0	0
All other engineering technicians	30	.0	(nc)

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Fruit and vegetable markets (SIC 5430)			
Scientific and technical personnel	10	<	(nc)
Engineers	10	<	(nc)
Miscellaneous food stores (SIC 5490)			
Scientific and technical personnel	10	<	0
Technicians	10	<	0
Physical and life science technicians	10	<	0
New and used car dealers (SIC 5510)			
Scientific and technical personnel	60	<	(nc)
Managers of scientific and technical personnel	10	.0	71
Technicians	50	<	77
Computer programmers	50	<	77
Auto and home supply stores (SIC 5530)			
Scientific and technical personnel	320	.1	(nc)
Scientists	80	<	4
Computer analysts	80	<	4
Managers of scientific and technical personnel	10	.0	0
Engineers	80	<	(nc)
Sales	50	<	0
Technicians	150	<	0
Computer programmers	150	<	0
Gasoline service stations (SIC 5540)			
Scientific and technical personnel	470	.1	(nc)
Scientists	230	<	(nc)
Physical scientists	20	.0	0
Computer analysts	210	<	0
Managers of scientific and technical personnel	50	<	0
Engineers	50	.0	(nc)
Technicians	140	<	(nc)
Computer programmers	50	<	5
Drafters	60	<	0
All other engineering technicians	20	.0	(nc)
Physical and life science technicians	10	.0	0
Automotive dealers, n.e.c. (SIC 5590)			
Scientific and technical personnel	10	.1	0
Technicians	10	.1	0

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Automotive dealers, n.e.c. (SIC 5590)—continued:			
Physical and life science technicians	10	0.1	0
Men's and boys' clothing stores (SIC 5610)			
Scientific and technical personnel	70	.1	(nc)
Scientists	20	<	6
Computer analysts	20	<	6
Managers of scientific and technical personnel	20	<	0
Technicians	30	<	5
Computer programmers	30	<	5
Women's clothing stores (SIC 5620)			
Scientific and technical personnel	1,250	.4	(nc)
Scientists	100	<	7
Computer analysts	100	<	7
Managers of scientific and technical personnel	20	<	0
Engineers	790	.2	(nc)
Sales	780	.2	88
Technicians	340	.1	4
Computer programmers	340	.1	4
Women's accessory and specialty stores (SIC 5630)			
Scientific and technical personnel	120	.2	(nc)
Scientists	80	.1	(nc)
Computer analysts	80	.1	(nc)
Technicians	40	.1	0
Computer programmers	40	.1	0
Children's and infants' wear stores (SIC 5640)			
Scientific and technical personnel	40	.1	(nc)
Scientists	30	.1	(nc)
Computer analysts	30	.1	(nc)
Technicians	10	<	0
Computer programmers	10	<	0
Family clothing stores (SIC 5650)			
Scientific and technical personnel	620	.2	(nc)
Scientists	230	.1	(nc)
Computer analysts	230	.1	(nc)
Managers of scientific and technical personnel	30	<	3

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Family clothing stores (SIC 5650)—continued:			
Engineers	50	<	(nc)
Mechanical	30	<	0
Other, n.e.c	20	.0	(nc)
Technicians	310	.1	(nc)
Computer programmers	300	.1	8
Drafters	10	.0	0
Shoe stores (SIC 5660)			
Scientific and technical personnel	290	.1	(nc)
Scientists	100	<	1
Computer analysts	100	<	1
Managers of scientific and technical personnel	20	<	11
Engineers	10	.0	(nc)
Technicians	160	.1	8
Computer programmers	160	.1	8
Misc. apparel and accessory stores (SIC 5690)			
Scientific and technical personnel	160	.2	(nc)
Scientists	100	.1	(nc)
Computer analysts	100	.1	(nc)
Managers of scientific and technical personnel	20	<	46
Engineers	10	<	(nc)
Technicians	30	<	25
Computer programmers	30	<	25
Furniture and homefurnishings stores (SIC 5710)			
Scientific and technical personnel	770	.2	(nc)
Scientists	160	<	13
Computer analysts	160	<	13
Managers of scientific and technical personnel	60	<	19
Technicians	550	.1	(nc)
Computer programmers	390	.1	15
Drafters	160	<	40
Household appliance stores (SIC 5720)			
Scientific and technical personnel	140	.2	(nc)
Scientists	80	.1	(nc)
Life scientists	20	<	77
Computer analysts	60	.1	(nc)

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Household appliance stores (SIC 5720)—continued:			
Technicians	60	0.1	(nc)
Computer programmers	20	<	0
Electrical/electronics engineering technicians	40	<	5
Radio, television, and computer stores (SIC 5730)			
Scientific and technical personnel	7,370	2.2	(nc)
Scientists	1,190	.4	17
Computer analysts	1,190	.4	17
Managers of scientific and technical personnel	360	.1	14
Engineers	1,430	.4	(nc)
Electrical/electronics	250	.1	12
Mechanical	10	.0	26
Sales	220	.1	16
Other, n.e.c	950	.3	48
Technicians	4,390	1.3	(nc)
Computer programmers	3,280	1.0	18
Drafters	30	<	38
Electrical/electronics engineering technicians	800	.2	14
All other engineering technicians	280	.1	(nc)
Eating and drinking places (SIC 5810)			
Scientific and technical personnel	370	.0	(nc)
Scientists	160	.0	(nc)
Computer analysts	160	.0	(nc)
Managers of scientific and technical personnel	30	.0	3
Engineers	10	.0	(nc)
Technicians	170	.0	(nc)
Computer programmers	160	.0	78
Physical and life science technicians	10	.0	81
Drug stores and proprietary stores (SIC 5910)			
Scientific and technical personnel	670	.1	(nc)
Scientists	340	.1	(nc)
Computer analysts	340	.1	(nc)
Managers of scientific and technical personnel	80	<	4
Engineers	30	.0	(nc)
Technicians	220	<	14
Computer programmers	220	<	14

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Liquor stores (SIC 5920)			
Scientific and technical personnel	70	0.1	67
Engineers	70	.1	67
Sales	70	.1	67
Used merchandise stores (SIC 5930)			
Scientific and technical personnel	10	<	12
Scientists	10	<	12
Computer analysts	10	<	12
Miscellaneous shopping goods stores (SIC 5940)			
Scientific and technical personnel	1,690	.2	(nc)
Scientists	400	<	9
Computer analysts	400	<	9
Managers of scientific and technical personnel	190	<	9
Engineers	480	<	(nc)
Sales	440	<	42
Technicians	620	.1	(nc)
Computer programmers	610	.1	7
Physical and life science technicians	10	.0	0
Fuel dealers (SIC 5980)			
Scientific and technical personnel	130	.1	(nc)
Scientists	10	<	19
Computer analysts	10	<	19
Managers of scientific and technical personnel	10	<	9
Engineers	60	.1	(nc)
Sales	50	<	19
Technicians	50	<	(nc)
Computer programmers	30	<	6
Physical and life science technicians	20	<	53
Retail stores, n.e.c. (SIC 5990)			
Scientific and technical personnel	480	.1	(nc)
Scientists	100	<	(nc)
Life scientists	10	.0	40
Computer analysts	90	<	16
Managers of scientific and technical personnel	30	<	15
Engineers	20	.0	(nc)
Technicians	330	.1	(nc)

See explanatory information and SOURCE at end of table.

Table A-5. Scientists, engineers, and technicians in trade and regulated industries as a percentage of total industry employment, and the relative standard error: 1994

Industry and occupation	Total	Percentage of total industry employment	Relative standard error
Retail stores, n.e.c. (SIC 5990)—continued:			
Computer programmers	100	<	15
Drafters	60	<	42
All other engineering technicians	120	<	(nc)
Physical and life science technicians	50	<	20

NOTE: Because of rounding, components may not add to totals.

KEY:
- nc = not computed
- < = The estimated actual value is less than 50 for numbers and less than .05 for percentages.
- 0 = Data were collected and the reported number or value was zero.
- n.e.c. = not elsewhere classified

SOURCE: National Science Foundation/SRS, using data from U.S. Department of Labor/Bureau of Labor Statistics, Occupational Employment Statistics Survey