

# Scientists, Engineers, and Technicians in the United States: 2001

Detailed Statistical Tables

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with Maurya M. Green

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# GENERAL NOTES

In this report, estimates of the total number of positions filled by scientists, engineers, and technicians employed in the U.S. economy in 2001 are presented by industry and by occupational category. Estimates are also presented for mean wages (hourly and annual) of scientists, engineers, and technicians by industry and by occupational category. Summary employment estimates by broad and detailed industry of employment are in tables 1–4. Employment estimates by detailed occupational classification and by industry are in tables 5–10. Wage estimates are in tables 11–20.

The estimates were developed from the Occupational Employment Statistics (OES) survey, a federal/state program under which national and state estimates of employment, by industry, are generated for nonfarm wage and salary workers. The Bureau of Labor Statistics (BLS) of the U.S. Department of Labor has primary responsibility for developing OES survey procedures and for providing states with technical guidance and assistance with survey problems. State employment security agencies implement the survey at the state level and prepare current and projected employment statistics for these labor markets. Some states also prepare substate estimates. See the Technical Notes for more information about the OES survey.

The Division of Science Resources Statistics of the National Science Foundation (NSF) has enhanced the BLS effort since 1977 by financing the collection of de-

tailed estimates on the kinds of scientific and technical jobs filled, by industry. Analysis of this information yields insights into the dynamics of the labor market. Industries identified in the tables of this report are from the “Numerical List of Short Titles” in the *Standard Industrial Classification (SIC) Manual, 1987*. The occupational categories are based on the revised Standard Occupational Classification (SOC) System.

Because both the SIC and SOC classification systems have been revised over time, comparisons of 2001 estimates with those published by NSF from previous years of the OES survey should be made with caution. Where possible, former categories were crosswalked to new ones, but often that was not possible. In addition, the scope of the OES survey changed in 1996 from sampling from only about one-third of the economy in each cycle (covering each SIC industry once every 3 years), to sampling from every SIC industry each year.

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# TECHNICAL NOTES

The Occupational Employment Statistics (OES) survey is an annual mail survey of occupational employment and wage rates for wage and salary workers in nonfarm establishments, by industry. Approximately 400,000 establishments are sampled for the survey each year; over 3 years, approximately 1.2 million establishments are contacted. The reference period for each year's survey is the fourth quarter of that year. Although estimates can be made from a single year of data, the OES survey has been designed to produce estimates using a full 3 years of data. The sample allows the production of estimates at detailed levels of geography, industry, and occupation. (See Estimation, below.)

Extensive portions of the material in these technical notes have been excerpted or reproduced verbatim from "Appendix B. Survey Methods and Reliability of the 2001 Occupational Employment Statistics Estimates" of Bulletin 2559, *Occupational Employment and Wages, 2001* (June 2003; available online at [http://bls.gov/oes/2001/appendix\\_b.pdf](http://bls.gov/oes/2001/appendix_b.pdf)), of the U.S. Department of Labor, Bureau of Labor Statistics (BLS). Readers are encouraged to consult that appendix for more complete explanations.

## OCCUPATIONAL CLASSIFICATION

The 1999 OES survey was the first to incorporate the Standard Occupational Classification System (SOC), a revised occupational classification system of the Office of Management and Budget (OMB). The SOC is the occupational classification system required by OMB for use by all federal agencies. The OES survey uses 22 major occupational groups from the SOC to categorize workers in one of almost 770 detailed occupations. The 2001 OES survey wage estimates were developed from combined 1999, 2000, and 2001 data obtained from an initial sample of 1,208,542 establishments. Occupational employment estimates are based only on data collected in the 2001 survey.

The major groups of the SOC are as follows:

- Management occupations
- Business and financial operations occupations
- Computer and mathematical occupations
- Architecture and engineering occupations
- Life, physical, and social science occupations
- Community and social services occupations
- Legal occupations
- Education, training, and library occupations

- Arts, design, entertainment, sports, and media occupations
- Healthcare practitioners and technical occupations
- Healthcare support occupations
- Protective service occupations
- Food preparation and serving related occupations
- Building and grounds cleaning and maintenance occupations
- Personal care and service occupations
- Sales and related occupations
- Office and administrative support occupations
- Farming, fishing, and forestry occupations
- Construction and extraction occupations
- Installation, maintenance, and repair occupations
- Production occupations
- Transportation and material moving occupations
- Military-specific occupations (not surveyed as part of OES).

## DEFINITIONS

*Employment.* Employment is defined as the number of workers who can be classified as full-time or part-time employees, including workers on paid vacations or other types of leave; workers on unpaid short-term absences; salaried officers, executives, and staff members of incorporated firms; employees temporarily assigned to other units; and employees for whom the reporting unit is their permanent duty station, regardless of whether that unit prepares their paycheck. Among those excluded from coverage are most proprietors (owners and partners of unincorporated firms), self-employed workers, and unpaid family workers. Employees are reported in the occupation in which they are working, rather than the occupation for which they were trained.

In this report, employment represents the estimate of total wage and salary employment in an occupation. To reduce paperwork and respondent burden, no OES survey form contains every SOC occupation. Instead, the survey form sent to an establishment contains 50 to 225 SOC occupations selected on the basis of the industry classification and size class of the sampled establishment. Thus, data for specific occupations are collected primarily from establishments within industries that are the predominant employers of labor in those occupations. Occupations not listed can be added to the survey form.

*Establishment.* An establishment is an economic unit that produces goods or services. It generally is found at a

single physical location and is engaged predominantly in one type of economic activity. Where a single physical location encompasses two or more distinct activities, these are treated as separate establishments if separate payroll records are available and certain other criteria are met.

*Standard Industrial Classification (SIC).* The industrial classification system used in this survey is described in the *Standard Industrial Classification Manual: 1987* (Office of Management and Budget: Washington, DC), which classifies reporting establishments into industries on the basis of major product or activity. The OES program produces estimates by both two-digit and three-digit SIC codes, estimates across all industries, and estimates of total national employment.

*Wages.* Wages for the OES survey are straight-time, gross pay, exclusive of premium pay. Base rate, cost-of-living allowances, guaranteed pay, hazardous-duty pay, incentive pay including commissions and production bonuses, tips, location differential, length-of-service allowances, and on-call pay are included. Excluded are attendance bonuses, back pay, jury duty pay, overtime pay, severance pay, shift differentials, nonproduction bonuses, tuition reimbursements, meal and lodging allowances, merchandise discounts, profit-sharing distributions, relocation allowances, and stock bonuses.

The OES survey collects wage data in 12 intervals. Employers report the number of employees in an occupation by wage interval. The wage intervals used for the 2001 survey are as follows:

Interval	Wages (dollars)	
	Hourly	Annual
A	under 6.75	under 14,040
B	6.75–8.49	14,040–17,679
C	8.50–10.74	17,680–22,359
D	10.75–13.49	22,360–28,079
E	13.50–16.99	28,080–35,359
F	17.00–21.49	35,360–44,719
G	21.50–27.24	44,720–56,679
H	27.25–34.49	56,680–71,759
I	34.50–43.74	71,760–90,999
J	43.75–55.49	91,000–115,439
K	55.50–69.99	115,440–145,599
L	70.00 and over	145,600 and over

*Mean wage.* The mean wage is the estimated total wages for an occupation divided by its weighted survey employment. A mean hourly wage value is calculated for each wage interval, A through K, based on occupational wage data collected by the BLS Office of Compensation and Working Conditions. The mean wage value for the upper open-ended wage interval L (\$70.00 and over) is its lower bound (Winsorized mean). These interval mean wage values are then attributed to all workers reported in the interval. For each occupation, total weighted wages in each interval are summed across all intervals and divided by the occupation’s weighted survey employment.

*Median wage.* The median wage is the estimated 50th percentile of the distribution of wages: 50 percent of workers in an occupation earn wages below, and 50 percent earn wages above, the median wage. The wage interval containing the median wage is located using a cumulative frequency count of employment across wage intervals. The median wage rate is then estimated using a linear interpolation procedure.

*Annual wage.* Annual wage estimates are calculated by multiplying the mean hourly wage by 2,080 hours (52 weeks per year multiplied by 40 hours per week). Employees paid at an hourly rate by their employers may work less than or more than 40 hours per week. Thus, the annual wage estimates may not represent the actual annual pay received by employees. For a small number of occupations in this report only an annual wage figure is provided. The workers in these occupations are generally paid on an annual basis, and their annual wage has been directly calculated from the reported survey data.

Producing estimates using 3 years of sample data provides additional occupational detail and reduces sampling error (particularly for small geographic areas and occupations). However, this procedure also has quality limitations because it requires the adjustment of data from earlier years to the current reference period—a procedure referred to as “wage updating.” The OES program uses the over-the-year fourth-quarter wage changes from the BLS Employment Cost Index (ECI) to adjust prior-year survey data before combining them with the current-year data. The wage updating procedure assumes



that each occupation's wage, as measured in the earlier years, moves according to the average movement of its occupational division and that there are no major geographic or detailed occupational differences—and this may not be the case. BLS has conducted research over the past several years on the accuracy of the ECI wage-updating method compared with other modeling approaches. Current research results support the continued use of the ECI wage-updating methodology.

## SCOPE OF SURVEY

The survey covers establishments in SIC codes 07, 10 through 42, 44 through 87, 89, and state and local governments. In addition, data for the U.S. Postal Service and for the federal government are universe (total) counts obtained from the U.S. Office of Personnel Management (OPM). Occupational employment and wage estimates at the national level were produced by BLS using employment and wage data from the 50 U.S. states and the District of Columbia. Guam, Puerto Rico, and the U.S. Virgin Islands were surveyed; however, data from these territories are not included in the production of national estimates.

For the OES survey, employers are requested to provide occupational data for a particular reference date. The reference date for any particular establishment in the survey is dependent on its SIC code. The reference date for the 2001 survey was the pay period that included October 12, November 12, or December 12 of 2001, depending on SIC code. The pay period including the 12th day of the reference month is standard for federal agencies collecting employment data.

## METHOD OF COLLECTION

Survey questionnaires (schedules) were initially mailed out to almost all sampled establishments; personal visits were made to some of the larger establishments.

Two additional mailings were sent to nonresponding establishments at approximately 3-week intervals. Telephone or personal-visit follow-ups were made for those nonresponding establishments considered critical to the survey because of their size.

## SAMPLING PROCEDURES

The OES survey is based on a probability sample and is designed to represent the universe of establishments it covers. The survey is conducted over a 3-year

cycle. Each year, one-third of the sample units are included in the survey. To the extent possible, units selected in 1 year are not included in the sample the following 2 years.

Establishments in eligible two- and three-digit SIC codes that reported to a state employment security agency for unemployment insurance purposes constitute the sampling frame for this survey. Virtually all businesses are required to file such a report with the state in which they are located. Each quarter, BLS combines the lists from all states into a single file called the Longitudinal Database (LDB), a compilation of state unemployment insurance reports. For the 1999 survey the sampling frame was the LDB file from the second quarter of 1998, for the 2000 survey it was the LDB file from the second quarter of 1999, and for the 2001 survey it was the LDB file from the fourth quarter of 2000. The sampling frame was supplemented with a list supplying establishment information on railroads (SIC 401). OPM provided data representing federal government employment and wages, obtained from an annual census of federal government establishments, at the end of the survey process.

Within each state, establishments in the universe were stratified by Metropolitan Statistical Area (MSA), three-digit SIC code, and size of firm. An establishment's size class is determined by its employment as reported on the sampling frame. Establishments in smaller size classes were selected based on a probability sample. Establishments in larger size classes are sampled with virtual certainty during the 3-year cycle of the survey. The targeted sample size of 1.2 million establishments per 3-year cycle was allocated in a manner that equalized the expected relative standard error of the typical occupational employment within the cell for each MSA and three-digit SIC. Within each of these cells, the sample was allocated across size classes in a manner that minimized the variance of the average typical occupational employment estimate.

## RESPONSE

Of the 369,694 eligible units from the 1999 sample, usable responses were obtained from 286,903, producing a response rate of 77.6 percent based on units. Of the 375,387 eligible units from the 2000 sample, usable responses were obtained from 293,450, producing a response rate of 78.2 percent based on units. Of the 366,760 eligible units from the 2001 sample, usable responses were obtained from 286,726, producing a response rate of 78.2 percent based on units.



## ESTIMATION

Combining data across years was challenging because of the 1999 transition to a new SOC-based OES occupational coding system. Although most of the former OES occupations can be crosswalked to a counterpart in the new system, many of the relations between the two coding systems are not one-to-one. Many former OES occupations are crosswalked to residual occupations, meaning that occupation is no longer surveyed as a detailed occupation. For more information about the SOC, please see the discussion of the SOC at the BLS Web site (<http://www.bls.gov/soc>).

## SAMPLE WEIGHTS

Each sampled establishment was assigned an original sampling weight, the reciprocal of the establishment's probability of selection (i.e., its design weight) within its sampled year.

Weights were modified for each in-scope establishment in a cell by dividing the establishment's design weight by a factor indicating the number of years for which sample units were selected from that sampling cell. This weight was used in the calculation of the 2001 estimates based on combining data from the 1999, 2000, and 2001 surveys.

## NONRESPONSE

Nonresponding establishments are accounted for in the OES survey by a two-step imputation process. First, the staffing pattern is imputed using a "hot-deck," "nearest-neighbor" imputation method. Hot-deck procedures use data from the current period to impute for missing data (from the current period). The nearest-neighbor method searches the responding establishments within a defined cell and finds the one that most closely matches the nonresponding establishment for key classification values (such as area, SIC, size class). The staffing pattern (employment distribution), of the responding establishment is used as the staffing pattern of the nonresponding establishment.

## COMBINING AND BENCHMARKING MULTIYEAR DATA

Whenever possible, data from the 1999, 2000, and 2001 surveys were combined. The remaining occupational wage estimates and all of the employment estimates were produced using only 2001 data. Each year's sample was weighted to represent the sample as it appeared at the time the sample was selected. In order to

combine the data, each unit's weight was modified to have the aggregate sample represent the universe. This was done by dividing each unit's weight by the number of years for which sample units were selected for that stratum.

## ESTIMATED EMPLOYMENT

A ratio estimator was used to develop estimates of occupational employment. The auxiliary variable was the population value of total employment obtained from the refined unemployment insurance files for the 2001 reference month. Within each MSA, the estimated employment for an occupation at the reported three-digit SIC level was calculated by multiplying the weighted employment by its ratio factor. The estimated employment for an occupation at the all-industry level was obtained by summing the occupational employment estimates across all industries within an MSA reporting that occupation. The employment and wage data for federal government workers in each occupation were added to the survey-derived data.

## VARIANCE OF ESTIMATES

Estimates of sampling error are calculated to allow the users to determine if occupational employment estimates are reliable enough for their needs. Only a probability-based sample can be used to calculate estimates of sampling error from the sample itself.

The formula used to estimate occupational employment variances (a common measure of sampling error) is based on the survey's sample design and method of estimation. The OES survey used a subsample replication technique called the jackknife random group to estimate variances of occupational employment. In this technique, each sampled establishment is assigned to one of G random groups. Using the data in these groups, G subsamples are formed from the parent sample. Next, G estimates of total employment for an occupation P are calculated, one employment estimate per subsample. The variability of these G employment estimates is then calculated. This variability is the BLS variance estimate of the employment estimate for occupation P.

## DISCREPANCIES BETWEEN EMPLOYMENT ESTIMATES AND WAGE ESTIMATES

Users consulting both occupational employment estimate tables and wage estimate tables may notice apparent discrepancies between two tables in the treatment of identical variables. For instance, wage estimates may

be displayed for certain occupations for which no employment estimates are reported, or employment or wage data may be displayed at the two-digit SIC level but not for the component three-digit SIC industries that together constitute the displayed two-digit industry. The two principal reasons for apparent discrepancies are (1) that BLS-applied suppression rules differ for employment estimates and for wage estimates, and (2) data at the three-digit SIC level may have to be suppressed to assure that individual establishments cannot be identified.

## RELIABILITY OF THE ESTIMATES

Estimates developed from a sample may differ from the results of a census. Two types of error, sampling and nonsampling, can occur in estimates calculated from a sample. Sampling error occurs because observations are based on a sample, not on the entire population. Nonsampling error occurs because of response and operational errors in the survey. Unlike sampling error, this form of error can also occur in a census.

## SAMPLING ERROR

The particular sample used in this survey is one of many possible samples of the same size that could have been selected using the same sample design. Estimates derived from different samples tend to differ from one another. The variance of a survey estimate is a measure of the variation among the estimates from all possible samples. The standard error of a survey estimate is the square root of its variance; the relative standard error is the ratio of the standard error to the estimate itself.

By using the sample estimate and its standard error, the user can construct an interval estimate with a prescribed level of confidence that the interval will include the mean value of the estimate from all possible samples.

For example, suppose that an estimated occupational employment total is 5,000 and has an associated relative standard error of 2.0 percent. Based on these data, the standard error of the estimate is 100 (2 percent of 5,000). A 68 percent confidence interval for the employment estimate is  $5,000 \pm 100$ , or from 4,900 to 5,100. Approximately 68 percent of the intervals constructed in this manner will include the mean of all possible employment estimates as computed from all possible samples. A 95 percent confidence interval for the employment estimate is  $5,000 \pm 196$ , or from 4,804 to 5,196. Approximately 95 percent of the intervals constructed in this manner will include the mean of all possible employ-

ment estimates as computed from all possible samples. Estimates of sampling errors for occupational employment estimates are available for most estimates.

## NONSAMPLING ERROR

Nonsampling error is attributable to such causes as an inability to obtain information for all establishments in the sample; differences in respondents' interpretation of the survey question; respondents' inability or unwillingness to provide correct information; errors made in recording, coding, or processing the data; and errors made in imputing values for missing data. Explicit measures of the effects of nonsampling error are not available. The relative standard error indicates the magnitude of the sampling error; it does not measure nonsampling error, which includes biases in the data. Particular care should be exercised in the interpretation of small estimates or of small differences between estimates when the sampling error is relatively large or the magnitude of the bias is unknown.

Several edit and quality-control procedures were used to reduce nonsampling error. For example, completed survey questionnaires were checked for data consistency, follow-up mailings were sent to nonresponding establishments to improve the survey response rate, and response analysis studies were conducted to assess respondents' comprehension of the questionnaire. Additional quality control procedures used in the OES survey are described below in "Quality Control Measures."

## RELATIVE STANDARD ERROR NOT DISPLAYED

Mean hourly wages are calculated from the mean values of the lower 11 of 12 wage intervals using data from the BLS National Compensation Survey (see Definitions, above). Because of space restrictions, relative standard errors are not displayed for estimates of mean hourly wages and mean annual wages for scientists, engineers, and technicians in tables 13–20. Relative standard errors for mean hourly wages were calculated and are available on request. Relative standard errors were not calculated for mean annual wages because the estimates for mean annual wages were calculated directly by multiplying mean hourly wages by 2,080 hours, which for this survey represents full-time employment.

All employment estimates for employees not allocated to a specific SIC (tables 1–4 and table 10) are residually determined by subtracting the subtotal of

estimates allocated by industry from the estimate of total filled positions. Because these values are calculated rather than estimated, no relative standard error of the estimate is shown for them in table 10. Relative standard errors of the employment estimates are displayed for occupational subclassifications in tables 5–10 but not for the occupational totals. Relative standard errors of these estimates are not available because the occupational totals are simple arithmetic sums of the occupational subclassification estimates.

## QUALITY CONTROL MEASURES

The OES survey is a cooperative program and has limited personnel resources. Nonetheless, the program must accommodate state-specific publication needs; standardize survey procedures across all 50 U.S. states, the District of Columbia, and the U.S. territories; and produce quality estimates. Controlling sources of nonsampling error in this decentralized environment can be difficult. In addition, edit and validation checks are distributed across eight regional offices, which can lead to procedural differences between the regions. Two important quality control measures used by the OES survey are the Survey Processing and Management (SPAM) System and the Estimates Delivery System (EDS). Both systems were developed to provide a consistent and au-

tomated framework for survey processing and to reduce the workload at the state, regional, and national levels.

By standardizing data processing activities, such as refining mailing addresses, addressing envelopes and mailers, editing and updating questionnaires, producing management reports, and calculating employment estimates, the SPAM system and the EDS have consequently standardized survey methodology. This has reduced the number of errors on the data files as well as the time needed to review them.

Other quality control measures implemented in the OES survey include

- Follow-up of solicitations of nonrespondents (especially critical nonrespondents),
- Review of schedules to verify the accuracy and reasonableness of the reported data,
- Adjustments of atypical reporting units on the data file,
- Validation of the benchmark employment figures and of the benchmark factors,
- Validation of the analytical tables of estimates (at the two- and three-digit SIC levels), and
- Use of bar codes to reduce keypunch errors.

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Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,  
by detailed industry of employment: 2001  
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total.....		5,580,200	100.0	524,800	100.0	2,157,300	100.0	1,256,400	100.0	1,641,700	100.0
Agriculture, forestry, and fishing .....		3,800	0.1	<	<	700	<	300	<	2,800	0.2
Agricultural services .....	07	3,800	0.1	<	<	700	<	300	<	2,800	0.2
Crop services .....	072	600	<	<	<	200	<	100	<	300	<
Animal services, except veterinary .....	075	1,300	<	<	<	200	<	<	<	1,100	0.1
Farm labor and management services .....	076	<	<	<	<	<	<	<	<	<	<
Landscape and horticultural services .....	078	1,500	<	<	<	200	<	100	<	1,200	0.1
Not allocated by detailed industry .....		300	<	<	<	100	<	100	<	200	<
Mining .....		42,400	0.8	3,100	0.6	8,300	0.4	15,900	1.3	15,100	0.9
Metal mining .....	10	2,600	<	200	<	400	<	1,000	0.1	1,000	0.1
Iron ores .....	101	100	<	<	<	<	<	100	<	<	<
Copper ores .....	102	300	<	<	<	100	<	100	<	100	<
Gold and silver ores .....	104	900	<	<	<	200	<	300	<	400	<
Metal mining services .....	108	100	<	<	<	100	<	<	<	<	<
Misc. metal ores, n.e.c. ....	109	<	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry .....		1,300	<	100	<	100	<	500	<	500	<
Coal mining .....	12	2,300	<	300	<	100	<	1,200	0.1	700	<
Bituminous coal and lignite mining .....	122	2,200	<	200	<	100	<	1,200	0.1	700	<
Not allocated by detailed industry .....		100	<	<	<	<	<	<	<	<	<
Oil and gas extraction .....	13	35,500	0.6	2,400	0.4	7,500	0.3	13,000	1.0	12,700	0.8
Crude petroleum and natural gas .....	131	17,500	0.3	1,600	0.3	5,200	0.2	8,800	0.7	1,900	0.1
Natural gas liquids .....	132	100	<	<	<	<	<	<	<	100	<
Oil and gas field services .....	138	6,400	0.1	<	<	100	<	1,100	0.1	5,200	0.3
Not allocated by detailed industry .....		11,500	0.2	800	0.2	2,200	0.1	3,000	0.2	5,500	0.3
Nonmetallic minerals, except fuels .....	14	2,000	<	300	<	300	<	800	0.1	700	<
Crushed and broken stone .....	142	600	<	100	<	<	<	300	<	200	<
Sand and gravel .....	144	200	<	100	<	<	<	100	<	100	<
Clay, ceramic, and refractory minerals .....	145	100	<	<	<	<	<	<	<	100	<
Chemical and fertilizer minerals .....	147	200	<	<	<	<	<	100	<	100	<
Misc. nonmetallic minerals .....	149	100	<	<	<	<	<	<	<	100	<
Not allocated by detailed industry .....		900	<	100	<	200	<	300	<	300	<
Construction .....		81,300	1.5	6,700	1.3	4,700	0.2	40,500	3.2	29,300	1.8
General building contractors .....	15	21,500	0.4	2,400	0.5	1,100	0.1	10,300	0.8	7,600	0.5
Residential building construction .....	152	4,300	0.1	200	<	100	<	700	0.1	3,200	0.2
Operative builders .....	153	700	<	100	<	<	<	200	<	400	<
Nonresidential building excluding building .....	154	15,700	0.3	2,000	0.4	800	<	9,200	0.7	3,800	0.2
Not allocated by detailed industry .....		700	<	100	<	200	<	300	<	200	<
Heavy construction, excluding building .....	16	22,000	0.4	2,200	0.4	800	<	13,700	1.1	5,400	0.3
Highway and street construction .....	161	4,700	0.1	400	0.1	100	<	2,600	0.2	1,600	0.1
Heavy construction, except highway .....	162	15,100	0.3	1,800	0.3	400	<	9,800	0.8	3,200	0.2
Not allocated by detailed industry .....		2,200	<	100	<	300	<	1,300	0.1	500	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,  
by detailed industry of employment: 2001  
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Special trade contractors .....	17	37,800	0.7	2,100	0.4	2,800	0.1	16,500	1.3	16,400	1.0
Plumbing, heating, air conditioning .....	171	9,900	0.2	700	0.1	300	<	4,900	0.4	4,100	0.2
Painting and paper hanging .....	172	<	<	<	<	<	<	<	<	<	<
Electrical work .....	173	13,600	0.2	700	0.1	1,500	0.1	5,100	0.4	6,500	0.4
Masonry, stonework, and plastering .....	174	600	<	100	<	<	<	400	<	200	<
Carpentry and floor work .....	175	700	<	<	<	<	<	200	<	500	<
Roofing, siding, and sheet-metal work .....	176	500	<	<	<	100	<	200	<	200	<
Concrete work .....	177	1,200	<	200	<	<	<	800	0.1	300	<
Misc. special trade contractors .....	179	8,000	0.1	400	0.1	300	<	4,200	0.3	3,100	0.2
Not allocated by detailed industry .....		3,200	0.1	100	<	700	<	900	0.1	1,600	0.1
<b>Total manufacturing .....</b>		<b>1,399,600</b>	<b>25.1</b>	<b>142,800</b>	<b>27.2</b>	<b>313,500</b>	<b>14.5</b>	<b>537,400</b>	<b>42.8</b>	<b>405,900</b>	<b>24.7</b>
Food and kindred products .....	20	38,300	0.7	5,700	1.1	12,600	0.6	7,800	0.6	12,200	0.7
Meat products .....	201	3,500	0.1	500	0.1	500	<	700	0.1	1,800	0.1
Dairy products .....	202	4,300	0.1	600	0.1	1,100	<	600	<	2,100	0.1
Preserved fruits & vegetables .....	203	5,700	0.1	800	0.2	2,000	0.1	1,000	0.1	1,900	0.1
Grain mill products .....	204	4,900	0.1	600	0.1	1,700	0.1	1,100	0.1	1,500	0.1
Bakery products .....	205	1,600	<	400	0.1	300	<	600	<	400	<
Sugar and confectionery products .....	206	2,600	<	400	0.1	700	<	400	<	1,100	0.1
Fats and oils .....	207	1,000	<	100	<	400	<	200	<	300	<
Beverages .....	208	9,900	0.2	1,800	0.3	3,800	0.2	2,500	0.2	1,900	0.1
Misc. food and kindred products .....	209	2,400	<	400	0.1	800	<	300	<	900	0.1
Not allocated by detailed industry .....		2,500	<	100	<	1,400	0.1	500	<	500	<
Tobacco products .....	21	1,300	<	300	0.1	600	<	<	<	400	<
Cigarettes .....	211	900	<	<	<	500	<	<	<	400	<
Chewing and smoking tobacco .....	213	<	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry .....		400	<	300	0.1	<	<	<	<	<	<
Textile mill products .....	22	7,000	0.1	1,400	0.3	900	<	2,200	0.2	2,500	0.2
Broadwoven fabric mills, cotton .....	221	400	<	100	<	<	<	200	<	100	<
Broadwoven fabric mills, manmade .....	222	700	<	200	<	100	<	400	<	100	<
Narrow fabric mills .....	224	<	<	<	<	<	<	<	<	<	<
Knitting mills .....	225	1,200	<	400	0.1	100	<	200	<	500	<
Textile finishing, except wool .....	226	700	<	100	<	100	<	100	<	300	<
Carpets and rugs .....	227	800	<	200	<	100	<	200	<	400	<
Yarn and thread mills .....	228	600	<	100	<	<	<	200	<	200	<
Miscellaneous textile goods .....	229	1,400	<	200	<	200	<	600	<	400	<
Not allocated by detailed industry .....		1,300	<	200	<	400	<	200	<	500	<
Apparel and other textile products .....	23	4,400	0.1	900	0.2	1,100	0.1	1,100	0.1	1,300	0.1
Men's & boys' furnishings .....	232	1,000	<	300	<	300	<	200	<	200	<
Women's and misses' outerwear .....	233	600	<	100	<	200	<	100	<	200	<
Women's and children's undergarments .....	234	100	<	<	<	<	<	<	<	<	<
Girls' and children's outerwear .....	236	100	<	<	<	<	<	<	<	100	<
Miscellaneous apparel and accessories .....	238	200	<	100	<	<	<	100	<	100	<
Misc. fabricated textile products .....	239	1,600	<	400	0.1	100	<	600	<	500	<
Not allocated by detailed industry .....		900	<	100	<	400	<	100	<	200	<

See explanatory information and SOURCE at end of table.



Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,  
by detailed industry of employment: 2001  
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Lumber and wood products .....	24	10,700	0.2	1,300	0.3	3,100	0.1	2,100	0.2	4,200	0.3
Logging .....	241	900	<	<	<	600	<	<	<	300	<
Sawmills and planing mills .....	242	1,900	<	200	<	1,200	0.1	200	<	400	<
Millwork, plywood & structural members .....	243	5,200	0.1	800	0.2	600	<	1,500	0.1	2,300	0.1
Wood containers .....	244	<	<	<	<	<	<	<	<	<	<
Wood buildings and mobile homes .....	245	1,200	<	200	<	<	<	200	<	700	<
Miscellaneous wood products .....	249	700	<	100	<	100	<	100	<	300	<
Not allocated by detailed industry .....		900	<	<	<	500	<	100	<	200	<
Furniture and fixtures .....	25	10,700	0.2	1,800	0.3	1,000	<	3,900	0.3	3,900	0.2
Household furniture .....	251	2,100	<	600	0.1	200	<	600	<	900	0.1
Office furniture .....	252	2,800	0.1	400	0.1	200	<	1,000	0.1	1,200	0.1
Public building & related furniture .....	253	2,400	<	400	0.1	100	<	1,300	0.1	600	<
Partitions and fixtures .....	254	1,800	<	300	<	100	<	500	<	1,000	0.1
Miscellaneous furniture and fixtures .....	259	600	<	100	<	100	<	200	<	200	<
Not allocated by detailed industry .....		900	<	<	<	500	<	300	<	100	<
Paper and allied products .....	26	19,300	0.3	2,400	0.4	3,200	0.1	8,200	0.7	5,500	0.3
Pulp mills .....	261	400	<	<	<	100	<	300	<	<	<
Paper mills .....	262	6,600	0.1	700	0.1	1,300	0.1	3,300	0.3	1,300	0.1
Paperboard mills .....	263	1,800	<	100	<	200	<	1,100	0.1	400	<
Paperboard containers and boxes .....	265	1,700	<	300	0.1	200	<	600	0.1	600	<
Misc. converted paper products .....	267	4,200	0.1	1,000	0.2	1,200	0.1	1,000	0.1	900	0.1
Not allocated by detailed industry .....		4,500	0.1	200	<	200	<	1,900	0.2	2,300	0.1
Printing and publishing .....	27	34,000	0.6	4,800	0.9	18,500	0.9	1,700	0.1	8,900	0.5
Newspapers .....	271	7,900	0.1	1,400	0.3	4,600	0.2	100	<	1,800	0.1
Periodicals .....	272	6,300	0.1	700	0.1	3,900	0.2	100	<	1,600	0.1
Books .....	273	4,700	0.1	700	0.1	2,600	0.1	100	<	1,200	0.1
Miscellaneous publishing .....	274	4,800	0.1	500	0.1	2,800	0.1	100	<	1,400	0.1
Commercial printing .....	275	5,200	0.1	1,000	0.2	1,900	0.1	600	<	1,700	0.1
Manifold business forms .....	276	600	<	100	<	200	<	<	<	300	<
Greeting cards .....	277	200	<	100	<	100	<	<	<	<	<
Blankbooks and bookbinding .....	278	900	<	100	<	500	<	100	<	200	<
Printing trade services .....	279	800	<	100	<	400	<	<	<	300	<
Not allocated by detailed industry .....		2,600	<	100	<	1,500	0.1	600	<	500	<
Chemicals and allied products .....	28	164,500	2.9	17,000	3.2	66,800	3.1	32,200	2.6	48,600	3.0
Industrial inorganic chemicals .....	281	13,600	0.2	1,300	0.2	3,800	0.2	4,700	0.4	3,800	0.2
Plastics materials and synthetics .....	282	19,100	0.3	1,300	0.2	4,300	0.2	6,500	0.5	7,100	0.4
Drugs .....	283	70,100	1.3	9,200	1.8	36,100	1.7	7,100	0.6	17,700	1.1
Soap, cleaners, and toilet goods .....	284	13,100	0.2	1,700	0.3	6,000	0.3	1,900	0.1	3,600	0.2
Paints and allied products .....	285	5,600	0.1	500	0.1	2,500	0.1	700	0.1	1,700	0.1
Industrial organic chemicals .....	286	23,700	0.4	1,700	0.3	6,800	0.3	6,400	0.5	8,900	0.5
Agricultural chemicals .....	287	5,800	0.1	400	0.1	1,800	0.1	1,900	0.2	1,700	0.1
Miscellaneous chemical products .....	289	10,100	0.2	1,000	0.2	3,300	0.2	2,200	0.2	3,600	0.2
Not allocated by detailed industry .....		3,500	0.1	<	<	2,100	0.1	900	0.1	500	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,  
by detailed industry of employment: 2001  
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Petroleum and coal products .....	29	13,700	0.2	1,100	0.2	4,200	0.2	4,600	0.4	3,800	0.2
Petroleum refining .....	291	11,400	0.2	800	0.2	3,600	0.2	3,900	0.3	3,100	0.2
Asphalt paving and roofing materials .....	295	500	<	100	<	100	<	200	<	100	<
Misc. petroleum and coal products .....	299	1,200	<	100	<	400	<	300	<	400	<
Not allocated by detailed industry .....		700	<	100	<	200	<	200	<	200	<
Rubber and misc. plastics products .....	30	34,600	0.6	4,100	0.8	4,200	0.2	16,000	1.3	10,300	0.6
Tires and inner tubes .....	301	2,900	0.1	300	<	300	<	1,400	0.1	1,000	0.1
Hose & belting & gaskets & packing .....	305	3,500	0.1	400	0.1	400	<	1,700	0.1	1,000	0.1
Fabricated rubber products, n.e.c. ....	306	4,100	0.1	500	0.1	500	<	1,800	0.1	1,200	0.1
Miscellaneous plastics products, n.e.c. ....	308	23,300	0.4	2,900	0.5	2,800	0.1	10,800	0.9	6,900	0.4
Not allocated by detailed industry .....		800	<	100	<	300	<	200	<	300	<
Leather and leather products .....	31	600	<	100	<	200	<	100	<	200	<
Footwear, except rubber .....	314	200	<	100	<	100	<	<	<	100	<
Luggage .....	316	<	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry .....		400	<	100	<	100	<	<	<	100	<
Stone, clay and glass products .....	32	13,700	0.2	1,800	0.3	1,600	0.1	5,800	0.5	4,500	0.3
Flat glass .....	321	300	<	100	<	<	<	200	<	100	<
Glass and glassware, pressed or blown .....	322	1,700	<	200	<	200	<	800	0.1	500	<
Products of purchased glass .....	323	1,500	<	300	<	200	<	800	0.1	300	<
Cement, hydraulic .....	324	1,100	<	100	<	200	<	400	<	400	<
Structural clay products .....	325	300	<	100	<	<	<	200	<	100	<
Pottery and related products .....	326	600	<	200	<	<	<	400	<	100	<
Concrete, gypsum, and plaster products .....	327	3,400	0.1	500	0.1	400	<	1,300	0.1	1,200	0.1
Misc. nonmetallic mineral products .....	329	2,800	0.1	400	0.1	400	<	1,100	0.1	900	0.1
Not allocated by detailed industry .....		1,900	<	<	<	300	<	700	0.1	900	0.1
Primary metal industries .....	33	27,900	0.5	3,100	0.6	3,700	0.2	12,100	1.0	9,000	0.5
Blast furnace and basic steel products .....	331	7,900	0.1	700	0.1	1,300	0.1	3,400	0.3	2,400	0.1
Iron and steel foundries .....	332	3,600	0.1	500	0.1	200	<	2,000	0.2	900	0.1
Primary nonferrous metals .....	333	2,000	<	100	<	400	<	700	0.1	800	<
Secondary nonferrous metals .....	334	400	<	<	<	100	<	100	<	200	<
Nonferrous rolling and drawing .....	335	9,100	0.2	1,100	0.2	1,200	0.1	3,800	0.3	3,000	0.2
Nonferrous foundries (castings) .....	336	2,700	<	400	0.1	100	<	1,400	0.1	900	0.1
Miscellaneous primary metal products .....	339	900	<	200	<	100	<	400	<	300	<
Not allocated by detailed industry .....		1,400	<	100	<	400	<	300	<	700	<
Fabricated metal products .....	34	65,700	1.2	8,300	1.6	5,100	0.2	27,500	2.2	24,800	1.5
Metal cans and shipping containers .....	341	700	<	200	<	<	<	400	<	200	<
Cutlery, hand tools, and hardware .....	342	4,400	0.1	700	0.1	400	<	2,000	0.2	1,400	0.1
Plumbing and heating, except electric .....	343	2,500	<	400	0.1	200	<	1,000	0.1	1,000	0.1
Fabricated structural metal products .....	344	23,200	0.4	2,800	0.5	1,300	0.1	7,500	0.6	11,600	0.7
Screw machine products, bolts, etc. ....	345	2,900	0.1	500	0.1	200	<	1,400	0.1	900	0.1
Metal forgings and stampings .....	346	9,100	0.2	1,300	0.2	500	<	4,700	0.4	2,700	0.2
Metal services, n.e.c. ....	347	2,600	<	300	0.1	300	<	1,200	0.1	800	0.1
Ordnance and accessories, n.e.c. ....	348	4,500	0.1	600	0.1	600	<	2,100	0.2	1,200	0.1
Misc. fabricated metal products .....	349	12,100	0.2	1,600	0.3	1,000	<	5,400	0.4	4,100	0.2
Not allocated by detailed industry .....		3,700	0.1	100	<	700	<	1,900	0.2	1,000	0.1

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,  
by detailed industry of employment: 2001  
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Industrial machinery and equipment .....	35	271,300	4.9	25,900	4.9	66,100	3.1	106,900	8.5	72,500	4.4
Engines and turbines .....	351	10,100	0.2	1,100	0.2	600	<	6,400	0.5	2,100	0.1
Farm and garden machinery .....	352	5,900	0.1	700	0.1	200	<	2,100	0.2	2,900	0.2
Construction and related machinery .....	353	24,000	0.4	2,800	0.5	1,400	0.1	12,800	1.0	7,000	0.4
Metalworking machinery .....	354	25,300	0.5	2,300	0.4	1,400	0.1	11,300	0.9	10,400	0.6
Special industry machinery .....	355	25,000	0.4	2,900	0.6	2,300	0.1	11,900	0.9	7,900	0.5
General industrial machinery .....	356	26,400	0.5	3,100	0.6	1,800	0.1	14,100	1.1	7,500	0.5
Computer and office equipment .....	357	118,700	2.1	9,800	1.9	55,100	2.6	33,400	2.7	20,300	1.2
Refrigeration and service machinery .....	358	14,000	0.3	1,500	0.3	800	<	7,000	0.6	4,700	0.3
Industrial machinery, n.e.c. ....	359	17,700	0.3	1,800	0.3	700	<	7,500	0.6	7,700	0.5
Not allocated by detailed industry .....		4,200	0.1	<	<	1,800	0.1	500	<	2,000	0.1
Electronic & other electric equipment .....	36	284,100	5.1	24,200	4.6	50,400	2.3	111,400	8.9	98,200	6.0
Electric distribution equipment .....	361	10,000	0.2	900	0.2	1,000	<	4,700	0.4	3,400	0.2
Electrical industrial apparatus .....	362	17,900	0.3	1,500	0.3	1,600	0.1	8,800	0.7	6,100	0.4
Household appliances .....	363	4,000	0.1	600	0.1	300	<	2,000	0.2	1,200	0.1
Electric lighting and wiring equipment .....	364	10,900	0.2	1,300	0.2	1,400	0.1	4,900	0.4	3,300	0.2
Household audio and video equipment .....	365	9,100	0.2	900	0.2	1,400	0.1	3,600	0.3	3,100	0.2
Communication equipment .....	366	64,300	1.2	5,400	1.0	19,700	0.9	23,000	1.8	16,200	1.0
Electronic components and accessories .....	367	151,700	2.7	12,600	2.4	22,700	1.1	59,100	4.7	57,300	3.5
Misc. electrical equipment & supplies .....	369	11,800	0.2	1,000	0.2	1,500	0.1	5,100	0.4	4,200	0.3
Not allocated by detailed industry .....		4,400	0.1	100	<	700	<	300	<	3,400	0.2
Transportation equipment .....	37	203,600	3.6	19,700	3.8	29,200	1.4	108,900	8.7	45,800	2.8
Motor vehicles and equipment .....	371	46,900	0.8	6,500	1.2	2,800	0.1	26,100	2.1	11,500	0.7
Aircraft and parts .....	372	106,700	1.9	9,200	1.7	18,800	0.9	55,600	4.4	23,200	1.4
Ship and boat building and repairing .....	373	3,400	0.1	1,000	0.2	300	<	1,500	0.1	600	<
Railroad equipment .....	374	2,000	<	300	<	100	<	800	0.1	900	0.1
Motorcycles, bicycles, and parts .....	375	1,600	<	100	<	100	<	1,200	0.1	200	<
Guided missiles, space vehicles, parts .....	376	32,400	0.6	2,400	0.4	6,500	0.3	19,400	1.5	4,200	0.3
Miscellaneous transportation equipment .....	379	1,900	<	300	<	100	<	900	0.1	700	<
Not allocated by detailed industry .....		8,600	0.2	<	<	600	<	3,500	0.3	4,500	0.3
Instruments and related products .....	38	182,800	3.3	17,100	3.3	38,200	1.8	81,600	6.5	45,900	2.8
Search and navigation equipment .....	381	62,700	1.1	5,900	1.1	13,000	0.6	31,700	2.5	12,100	0.7
Measuring and controlling devices .....	382	71,500	1.3	6,700	1.3	14,600	0.7	29,400	2.3	20,700	1.3
Medical instruments and supplies .....	384	32,500	0.6	3,800	0.7	6,700	0.3	12,900	1.0	9,200	0.6
Ophthalmic goods .....	385	1,600	<	200	<	300	<	500	<	500	<
Photographic equipment and supplies .....	386	9,800	0.2	400	0.1	1,800	0.1	6,300	0.5	1,300	0.1
Not allocated by detailed industry .....		4,800	0.1	100	<	1,900	0.1	700	0.1	2,100	0.1
Miscellaneous manufacturing industries .....	39	11,400	0.2	1,700	0.3	2,800	0.1	3,300	0.3	3,600	0.2
Jewelry, silverware, and plated ware .....	391	500	<	100	<	200	<	100	<	100	<
Musical instruments .....	393	400	<	<	<	<	<	200	<	100	<
Toys and sporting goods .....	394	3,300	0.1	600	0.1	900	<	1,000	0.1	800	<
Pens, pencils, office, & art supplies .....	395	800	<	200	<	200	<	200	<	200	<
Costume jewelry and notions .....	396	100	<	<	<	<	<	<	<	<	<
Miscellaneous manufactures .....	399	5,300	0.1	700	0.1	1,300	0.1	1,500	0.1	1,800	0.1
Not allocated by detailed industry .....		1,200	<	100	<	300	<	300	<	600	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,  
by detailed industry of employment: 2001  
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Transportation, communications, and utilities .....		344,600	6.2	34,000	6.5	112,000	5.2	83,200	6.6	115,500	7.0
Railroad transportation .....	40	11,900	0.2	300	0.1	1,200	0.1	6,000	0.5	4,500	0.3
Railroad transportation .....	401	11,900	0.2	300	0.1	1,200	0.1	6,000	0.5	4,500	0.3
Local and interurban transit .....	41	1,200	<	200	<	100	<	400	<	400	<
Local and suburban transportation .....	411	400	<	100	<	100	<	<	<	100	<
Not allocated by detailed industry .....		800	<	100	<	100	<	400	<	300	<
Trucking and warehousing .....	42	6,600	0.1	1,500	0.3	2,200	0.1	600	<	2,400	0.1
Trucking and courier services, excl. air .....	421	4,100	0.1	900	0.2	1,100	<	300	<	1,800	0.1
Public warehousing and storage .....	422	1,900	<	500	0.1	1,000	<	100	<	400	<
Trucking terminal facilities .....	423	100	<	<	<	<	<	<	<	100	<
Not allocated by detailed industry .....		600	<	<	<	200	<	200	<	200	<
Water transportation .....	44	2,300	<	500	0.1	300	<	1,000	0.1	600	<
Deep sea foreign transportation of freight .....	441	600	<	200	<	100	<	100	<	200	<
Deep sea domestic transportation of freight .....	442	200	<	<	<	<	<	100	<	100	<
Water transportation of freight, n.e.c. ....	444	100	<	<	<	<	<	100	<	<	<
Water transportation of passengers .....	448	300	<	100	<	<	<	200	<	<	<
Water transportation services .....	449	300	<	100	<	<	<	<	<	200	<
Not allocated by detailed industry .....		800	<	100	<	300	<	400	<	100	<
Transportation by air .....	45	26,300	0.5	2,200	0.4	7,900	0.4	5,500	0.4	10,700	0.7
Air transportation, scheduled .....	451	19,600	0.4	2,000	0.4	7,200	0.3	4,500	0.4	5,900	0.4
Air transportation, nonscheduled .....	452	300	<	<	<	100	<	<	<	100	<
Airports, flying fields, and services .....	458	3,400	0.1	200	<	500	<	800	0.1	2,000	0.1
Not allocated by detailed industry .....		3,100	0.1	<	<	100	<	300	<	2,800	0.2
Pipelines, except natural gas .....	46	1,100	<	100	<	100	<	600	<	400	<
Pipelines, except natural gas .....	461	1,100	<	100	<	100	<	600	<	400	<
Transportation services .....	47	7,500	0.1	1,100	0.2	2,600	0.1	600	<	3,200	0.2
Passenger transportation arrangements .....	472	3,300	0.1	500	0.1	1,800	0.1	200	<	800	<
Freight transportation arrangements .....	473	2,500	<	500	0.1	700	<	100	<	1,200	0.1
Rental of railroad cars .....	474	<	<	<	<	<	<	<	<	<	<
Misc. transportation services .....	478	1,200	<	<	<	<	<	100	<	1,000	0.1
Not allocated by detailed industry .....		500	<	100	<	100	<	100	<	100	<
Communications .....	48	194,900	3.5	18,800	3.6	78,000	3.6	36,700	2.9	61,400	3.7
Telephone communications .....	481	134,500	2.4	13,400	2.6	66,300	3.1	31,800	2.5	23,000	1.4
Telegraph and other communications .....	482	3,900	0.1	600	0.1	2,100	0.1	100	<	1,100	0.1
Radio and television broadcasting .....	483	34,800	0.6	2,200	0.4	2,600	0.1	1,900	0.2	28,100	1.7
Cable and other pay TV services .....	484	15,600	0.3	2,000	0.4	5,100	0.2	1,500	0.1	7,100	0.4
Communications services, n.e.c. ....	489	5,200	0.1	600	0.1	1,700	0.1	1,000	0.1	1,900	0.1
Not allocated by detailed industry .....		800	<	<	<	100	<	500	<	200	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,  
by detailed industry of employment: 2001  
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Utilities and sanitary services .....	49	92,900	1.7	9,400	1.8	19,600	0.9	31,900	2.5	32,100	2.0
Electric services .....	491	48,300	0.9	4,700	0.9	10,100	0.5	17,100	1.4	16,300	1.0
Gas production and distribution .....	492	9,300	0.2	1,100	0.2	2,300	0.1	2,700	0.2	3,100	0.2
Combination utility services .....	493	18,900	0.3	1,600	0.3	3,800	0.2	5,900	0.5	7,700	0.5
Water supply .....	494	1,200	<	300	0.1	200	<	300	<	400	<
Sanitary services .....	495	11,100	0.2	800	0.2	2,400	0.1	4,600	0.4	3,300	0.2
Steam and air-conditioning supply .....	496	<	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry .....		4,200	0.1	900	0.2	700	<	1,200	0.1	1,300	0.1
Wholesale trade .....		255,100	4.6	27,700	5.3	75,100	3.5	60,700	4.8	91,600	5.6
Wholesale trade, durable goods .....	50	215,100	3.9	20,900	4.0	58,300	2.7	56,900	4.5	78,900	4.8
Motor vehicles, parts, and supplies .....	501	5,200	0.1	1,000	0.2	900	<	1,300	0.1	1,900	0.1
Furniture and homefurnishings .....	502	1,000	<	300	0.1	300	<	100	<	200	<
Lumber and construction materials .....	503	1,900	<	300	0.1	300	<	200	<	1,100	0.1
Professional and commercial equipment .....	504	116,800	2.1	11,200	2.1	45,400	2.1	17,500	1.4	42,700	2.6
Metals and minerals, except petroleum .....	505	1,700	<	300	0.1	200	<	400	<	900	0.1
Electrical goods .....	506	50,700	0.9	4,500	0.8	6,500	0.3	22,300	1.8	17,400	1.1
Hardware, plumbing, and heating equipment .....	507	5,600	0.1	600	0.1	700	<	2,600	0.2	1,800	0.1
Machinery, equipment, and supplies .....	508	25,400	0.5	2,200	0.4	2,000	0.1	11,000	0.9	10,300	0.6
Miscellaneous durable goods .....	509	3,400	0.1	600	0.1	1,000	<	500	<	1,300	0.1
Not allocated by detailed industry .....		3,400	0.1	<	<	1,100	0.1	1,000	0.1	1,300	0.1
Wholesale trade, nondurable goods .....	51	40,000	0.7	6,800	1.3	16,700	0.8	3,700	0.3	12,800	0.8
Paper and paper products .....	511	3,500	0.1	700	0.1	1,400	0.1	200	<	1,200	0.1
Drugs, proprietaries, and sundries .....	512	9,700	0.2	1,900	0.4	5,100	0.2	300	<	2,500	0.2
Apparel, piece goods, and notions .....	513	1,900	<	400	0.1	800	<	100	<	600	<
Groceries and related products .....	514	6,000	0.1	1,400	0.3	2,500	0.1	300	<	1,900	0.1
Farm-product raw materials .....	515	700	<	200	<	400	<	<	<	200	<
Chemicals and allied products .....	516	5,100	0.1	400	0.1	1,800	0.1	1,400	0.1	1,600	0.1
Petroleum and petroleum products .....	517	1,600	<	300	<	400	<	400	<	500	<
Beer, wine, and distilled beverages .....	518	800	<	300	0.1	300	<	<	<	200	<
Misc. nondurable goods .....	519	8,100	0.1	1,300	0.2	3,400	0.2	100	<	3,200	0.2
Not allocated by detailed industry .....		2,700	<	100	<	800	<	900	0.1	900	0.1
Retail trade .....		58,600	1.0	9,400	1.8	29,000	1.3	3,900	0.3	16,300	1.0
Building materials and garden supplies .....	52	4,900	0.1	700	0.1	2,900	0.1	400	<	1,000	0.1
Lumber and other building materials .....	521	4,600	0.1	600	0.1	2,800	0.1	400	<	900	0.1
Hardware stores .....	525	100	<	<	<	<	<	<	<	<	<
Retail nurseries and garden stores .....	526	<	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry .....		100	<	<	<	100	<	<	<	100	<
General merchandise stores .....	53	6,400	0.1	1,300	0.3	2,800	0.1	300	<	1,900	0.1
Department stores .....	531	6,200	0.1	1,300	0.2	2,800	0.1	300	<	1,800	0.1
Not allocated by detailed industry .....		200	<	100	<	<	<	<	<	100	<
Food stores .....	54	4,600	0.1	1,400	0.3	2,200	0.1	100	<	1,000	0.1
Grocery stores .....	541	3,900	0.1	1,300	0.2	1,600	0.1	100	<	900	0.1
Miscellaneous food stores .....	549	200	<	<	<	<	<	<	<	100	<
Not allocated by detailed industry .....		500	<	100	<	500	<	<	<	<	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,  
by detailed industry of employment: 2001  
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Automotive dealers and service stations .....	55	4,400	0.1	1,000	0.2	1,200	0.1	1,100	0.1	1,100	0.1
New and used car dealers .....	551	2,200	<	600	0.1	400	<	1,000	0.1	200	<
Auto and home supply stores .....	553	500	<	100	<	200	<	<	<	200	<
Gasoline service stations .....	554	400	<	100	<	100	<	<	<	100	<
Boat dealers .....	555	<	<	<	<	<	<	<	<	<	<
Not allocated by detailed industry .....		1,200	<	100	<	500	<	100	<	500	<
Apparel and accessory stores .....	56	2,200	<	600	0.1	700	<	<	<	900	0.1
Men's and boys' clothing stores .....	561	100	<	<	<	<	<	<	<	100	<
Women's clothing stores .....	562	300	<	100	<	100	<	<	<	100	<
Children's and infants' wear stores .....	564	100	<	<	<	100	<	<	<	<	<
Family clothing stores .....	565	700	<	200	<	200	<	<	<	300	<
Shoe stores .....	566	600	<	200	<	100	<	<	<	400	<
Misc. apparel and accessory stores .....	569	100	<	100	<	<	<	<	<	<	<
Not allocated by detailed industry .....		500	<	100	<	300	<	<	<	100	<
Furniture and homefurnishings stores .....	57	17,000	0.3	1,700	0.3	8,700	0.4	1,400	0.1	5,200	0.3
Furniture and homefurnishings stores .....	571	1,000	<	300	0.1	200	<	<	<	500	<
Radio, television, and computer stores .....	573	15,000	0.3	1,400	0.3	8,200	0.4	900	0.1	4,600	0.3
Not allocated by detailed industry .....		1,000	<	<	<	200	<	600	<	200	<
Eating and drinking places .....	58	1,000	<	200	<	700	<	<	<	100	<
Eating and drinking places .....	581	1,000	<	200	<	700	<	<	<	100	<
Misc. retail stores .....	59	18,100	0.3	2,600	0.5	9,800	0.5	700	0.1	5,000	0.3
Drug stores and proprietary stores .....	591	600	<	200	<	200	<	<	<	200	<
Miscellaneous shopping goods stores .....	594	4,500	0.1	800	0.2	2,700	0.1	<	<	1,000	0.1
Nonstore retailers .....	596	10,700	0.2	1,300	0.3	5,900	0.3	200	<	3,300	0.2
Fuel dealers .....	598	100	<	100	<	<	<	<	<	<	<
Retail stores, n.e.c. ....	599	1,000	<	200	<	400	<	100	<	400	<
Not allocated by detailed industry .....		1,300	<	100	<	600	<	400	<	100	<
Finance, insurance, and real estate .....		299,800	5.4	41,400	7.9	190,400	8.8	7,400	0.6	60,600	3.7
Depository institutions .....	60	72,300	1.3	11,300	2.2	47,400	2.2	1,000	0.1	12,700	0.8
Central reserve depositories .....	601	3,200	0.1	200	<	2,700	0.1	<	<	300	<
Commercial banks .....	602	53,500	1.0	7,400	1.4	34,600	1.6	800	0.1	10,700	0.7
Savings institutions .....	603	5,400	0.1	1,300	0.2	3,400	0.2	<	<	700	<
Credit unions .....	606	4,100	0.1	1,400	0.3	2,500	0.1	<	<	300	<
Foreign banks and branches and agencies .....	608	900	<	300	0.1	400	<	<	<	200	<
Functions closely related to banking .....	609	4,800	0.1	700	0.1	3,700	0.2	100	<	400	<
Not allocated by detailed industry .....		300	<	<	<	200	<	100	<	<	<
Nondepository institutions .....	61	24,100	0.4	3,500	0.7	17,100	0.8	100	<	3,500	0.2
Federal and federally sponsored credit .....	611	1,300	<	100	<	1,000	<	<	<	200	<
Personal credit institutions .....	614	8,000	0.1	1,200	0.2	6,000	0.3	<	<	800	0.1
Business credit institutions .....	615	7,400	0.1	900	0.2	5,200	0.2	100	<	1,200	0.1
Mortgage bankers and brokers .....	616	7,200	0.1	1,200	0.2	4,800	0.2	<	<	1,200	0.1
Not allocated by detailed industry .....		300	<	100	<	200	<	<	<	<	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,  
by detailed industry of employment: 2001  
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Security and commodity brokers .....	62	44,700	0.8	6,700	1.3	26,200	1.2	300	<	11,400	0.7
Security brokers and dealers .....	621	28,600	0.5	4,200	0.8	16,500	0.8	100	<	7,700	0.5
Commodity contracts, brokers, and dealers .....	622	600	<	400	0.1	200	<	<	<	<	<
Security and commodity exchanges .....	623	1,300	<	<	<	800	<	<	<	600	<
Security and commodity services .....	628	12,600	0.2	2,100	0.4	8,500	0.4	200	<	1,900	0.1
Not allocated by detailed industry .....		1,600	<	100	<	300	<	100	<	1,200	0.1
Insurance carriers .....	63	112,200	2.0	12,000	2.3	73,900	3.4	2,400	0.2	23,800	1.4
Life insurance .....	631	38,500	0.7	4,600	0.9	25,900	1.2	400	<	7,700	0.5
Medical service and health insurance .....	632	35,300	0.6	3,800	0.7	25,000	1.2	<	<	6,400	0.4
Fire, marine, and casualty insurance .....	633	31,500	0.6	2,700	0.5	19,100	0.9	1,800	0.1	8,000	0.5
Surety insurance .....	635	1,600	<	200	<	1,000	<	<	<	500	<
Title insurance .....	636	1,300	<	300	0.1	700	<	<	<	300	<
Pension, health, and welfare funds .....	637	2,300	<	400	0.1	1,200	0.1	<	<	700	<
Insurance carriers, n.e.c. ....	639	200	<	100	<	100	<	<	<	100	<
Not allocated by detailed industry .....		1,400	<	100	<	1,000	<	200	<	100	<
Insurance agents, brokers, and service .....	64	19,600	0.4	3,500	0.7	11,200	0.5	800	0.1	4,200	0.3
Insurance agents, brokers, and service .....	641	19,600	0.4	3,500	0.7	11,200	0.5	800	0.1	4,200	0.3
Real estate .....	65	9,500	0.2	1,800	0.3	3,300	0.2	1,900	0.1	2,600	0.2
Real estate operators and lessors .....	651	2,100	<	400	0.1	800	<	600	<	500	<
Real estate agents and managers .....	653	4,700	0.1	800	0.2	2,000	0.1	800	0.1	1,100	0.1
Title abstract offices .....	654	400	<	100	<	100	<	<	<	100	<
Subdividers and developers .....	655	1,600	<	100	<	300	<	500	<	700	<
Not allocated by detailed industry .....		700	<	400	0.1	200	<	<	<	200	<
Holding and other investment offices .....	67	17,400	0.3	2,700	0.5	11,300	0.5	900	0.1	2,500	0.2
Holding offices .....	671	9,200	0.2	1,600	0.3	5,800	0.3	700	0.1	1,000	0.1
Investment offices .....	672	1,300	<	200	<	900	<	<	<	100	<
Trusts .....	673	2,800	<	300	0.1	1,800	0.1	<	<	700	<
Misc. investing .....	679	2,600	<	500	0.1	1,500	0.1	<	<	700	<
Not allocated by detailed industry .....		1,600	<	<	<	1,300	0.1	100	<	100	<
Services .....		2,394,600	42.9	201,900	38.5	1,126,600	52.2	356,300	28.4	709,900	43.2
Hotels and other lodging places .....	70	2,900	0.1	400	0.1	900	<	400	<	1,200	0.1
Hotels and motels .....	701	2,800	<	400	0.1	900	<	400	<	1,100	0.1
Not allocated by detailed industry .....		100	<	<	<	<	<	100	<	<	<
Personal services .....	72	1,400	<	100	<	500	<	100	<	700	<
Laundry, cleaning, and garment services .....	721	300	<	<	<	<	<	100	<	200	<
Photographic studios, portrait .....	722	100	<	<	<	<	<	<	<	100	<
Beauty shops .....	723	<	<	<	<	<	<	<	<	<	<
Funeral service and crematories .....	726	100	<	<	<	<	<	<	<	100	<
Misc. personal services .....	729	500	<	<	<	200	<	<	<	300	<
Not allocated by detailed industry .....		400	<	<	<	300	<	<	<	100	<

See explanatory information and SOURCE at end of table.



Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,  
by detailed industry of employment: 2001  
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Business services .....	73	1,048,900	18.8	83,100	15.8	613,300	28.4	68,100	5.4	284,400	17.3
Advertising .....	731	11,800	0.2	1,300	0.2	7,600	0.4	100	<	2,800	0.2
Credit reporting and collection .....	732	3,700	0.1	700	0.1	1,600	0.1	<	<	1,400	0.1
Mailing, reproduction, and stenographic .....	733	8,900	0.2	900	0.2	5,100	0.2	100	<	2,800	0.2
Services to buildings .....	734	400	<	100	<	<	<	200	<	100	<
Misc. equipment rental and leasing .....	735	3,800	0.1	300	0.1	600	<	500	<	2,400	0.1
Personnel supply services .....	736	78,500	1.4	2,300	0.4	22,400	1.0	21,200	1.7	32,700	2.0
Computer and data processing services .....	737	897,900	16.1	73,600	14.0	559,700	25.9	40,200	3.2	224,500	13.7
Misc. business services .....	738	32,000	0.6	3,900	0.7	11,500	0.5	3,300	0.3	13,300	0.8
Not allocated by detailed industry .....		11,900	0.2	100	<	4,900	0.2	2,300	0.2	4,600	0.3
Auto repair, services, and parking .....	75	5,000	0.1	600	0.1	1,700	0.1	500	<	2,200	0.1
Automobile rentals, no drivers .....	751	2,300	<	600	0.1	700	<	200	<	800	<
Automobile repair shops .....	753	1,100	<	<	<	300	<	100	<	700	<
Automobile services, except repair .....	754	800	<	<	<	<	<	<	<	800	<
Not allocated by detailed industry .....		800	<	<	<	600	<	100	<	<	<
Misc. repair services .....	76	8,200	0.1	200	<	800	<	2,700	0.2	4,600	0.3
Electrical repair shops .....	762	3,800	0.1	100	<	300	<	900	0.1	2,600	0.2
Misc. repair shops .....	769	3,900	0.1	200	<	300	<	1,600	0.1	1,900	0.1
Not allocated by detailed industry .....		500	<	<	<	200	<	200	<	100	<
Motion pictures .....	78	16,700	0.3	1,500	0.3	3,100	0.1	1,000	0.1	11,100	0.7
Motion picture production and services .....	781	15,200	0.3	1,200	0.2	2,700	0.1	900	0.1	10,400	0.6
Motion picture distribution and services .....	782	700	<	100	<	200	<	<	<	300	<
Motion picture theaters .....	783	200	<	100	<	<	<	<	<	200	<
Video tape rental .....	784	300	<	<	<	<	<	<	<	200	<
Not allocated by detailed industry .....		300	<	<	<	100	<	100	<	<	<
Amusement and recreation services .....	79	7,400	0.1	500	0.1	900	<	400	<	5,500	0.3
Producers, orchestras, and entertainers .....	792	3,200	0.1	100	<	200	<	<	<	2,900	0.2
Commercial sports .....	794	1,600	<	<	<	200	<	200	<	1,200	0.1
Misc. amusement, recreation services .....	799	2,000	<	300	0.1	600	<	100	<	1,100	0.1
Not allocated by detailed industry .....		500	<	100	<	100	<	100	<	300	<
Health services .....	80	116,400	2.1	12,600	2.4	85,300	4.0	2,800	0.2	15,700	1.0
Offices and clinics of medical doctors .....	801	12,500	0.2	1,600	0.3	10,600	0.5	200	<	200	<
Offices and clinics of dentists .....	802	<	<	<	<	<	<	<	<	<	<
Offices of osteopathic physicians .....	803	100	<	<	<	100	<	<	<	<	<
Offices of other health practitioners .....	804	10,000	0.2	100	<	9,800	0.5	<	<	100	<
Nursing and personal care facilities .....	805	1,800	<	500	0.1	1,200	0.1	<	<	200	<
Hospitals .....	806	70,800	1.3	8,100	1.5	50,700	2.3	2,100	0.2	10,000	0.6
Medical and dental laboratories .....	807	7,000	0.1	900	0.2	3,400	0.2	200	<	2,600	0.2
Home health care services .....	808	1,700	<	400	0.1	1,000	<	<	<	300	<
Health and allied services, n.e.c. ....	809	7,700	0.1	800	0.1	6,400	0.3	<	<	600	<
Not allocated by detailed industry .....		4,800	0.1	300	0.1	2,200	0.1	300	<	2,000	0.1
Legal services .....	81	8,800	0.2	2,000	0.4	6,000	0.3	<	<	800	<
Legal services .....	811	8,800	0.2	2,000	0.4	6,000	0.3	<	<	800	<

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,  
by detailed industry of employment: 2001  
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Educational services .....	82	145,700	2.6	13,900	2.6	98,700	4.6	2,100	0.2	31,000	1.9
Elementary and secondary schools .....	821	55,500	1.0	1,100	0.2	49,300	2.3	<	<	5,100	0.3
Colleges, universities, and professional .....	822	84,500	1.5	12,000	2.3	46,300	2.1	1,800	0.1	24,300	1.5
Libraries .....	823	300	<	100	<	200	<	<	<	<	<
Vocational schools .....	824	2,300	<	300	0.1	1,400	0.1	100	<	500	<
Schools and educational services, n.e.c. ....	829	2,300	<	400	0.1	1,300	0.1	<	<	700	<
Not allocated by detailed industry .....		900	<	<	<	300	<	200	<	400	<
Social services .....	83	22,300	0.4	2,500	0.5	18,100	0.8	<	<	1,700	0.1
Individual and family services .....	832	11,000	0.2	700	0.1	9,600	0.4	<	<	600	<
Job training and related services .....	833	1,600	<	300	0.1	1,100	<	<	<	300	<
Child day care services .....	835	500	<	100	<	300	<	<	<	100	<
Residential care .....	836	4,900	0.1	600	0.1	4,100	0.2	<	<	300	<
Social services, n.e.c. ....	839	3,100	0.1	600	0.1	2,100	0.1	<	<	400	<
Not allocated by detailed industry .....		1,200	<	200	<	900	<	<	<	100	<
Museums, botanical, zoological gardens .....	84	2,500	<	400	0.1	1,500	0.1	100	<	600	<
Museums and art galleries .....	841	1,200	<	300	<	500	<	100	<	400	<
Botanical and zoological gardens .....	842	1,100	<	100	<	900	<	<	<	100	<
Not allocated by detailed industry .....		200	<	<	<	100	<	<	<	100	<
Membership organizations .....	86	14,700	0.3	2,600	0.5	8,500	0.4	400	<	3,100	0.2
Business associations .....	861	4,000	0.1	800	0.1	2,600	0.1	<	<	700	<
Professional organizations .....	862	4,100	0.1	700	0.1	2,700	0.1	<	<	700	<
Labor organizations .....	863	800	<	200	<	400	<	100	<	200	<
Civic and social associations .....	864	1,600	<	400	0.1	900	<	<	<	400	<
Political organizations .....	865	100	<	<	<	100	<	<	<	<	<
Religious organizations .....	866	1,100	<	200	<	400	<	<	<	500	<
Membership organizations, n.e.c. ....	869	1,400	<	300	<	800	<	<	<	300	<
Not allocated by detailed industry .....		1,600	<	100	<	800	<	400	<	300	<
Engineering and management services .....	87	982,700	17.6	80,900	15.4	279,900	13.0	276,300	22.0	345,600	21.1
Engineering and architectural services .....	871	560,300	10.0	42,300	8.1	67,700	3.1	209,800	16.7	240,600	14.7
Accounting, auditing, and bookkeeping .....	872	20,300	0.4	3,200	0.6	13,700	0.6	400	<	3,000	0.2
Research and testing services .....	873	241,500	4.3	20,400	3.9	119,000	5.5	36,800	2.9	65,300	4.0
Management and public relations .....	874	153,000	2.7	14,900	2.8	76,400	3.5	27,500	2.2	34,200	2.1
Not allocated by detailed industry .....		7,700	0.1	100	<	3,200	0.1	1,800	0.1	2,600	0.2
Services, n.e.c. ....	89	11,100	0.2	600	0.1	7,400	0.3	1,500	0.1	1,800	0.1
Services, n.e.c. ....	899	11,100	0.2	600	0.1	7,400	0.3	1,500	0.1	1,800	0.1

See explanatory information and SOURCE at end of table.

Table 1. Employed scientists, engineers, technicians (SETs), and SET managers,  
by detailed industry of employment: 2001  
[Filled positions]

Detailed industry	SIC	Total SET personnel		Managers of SET personnel		Scientists		Engineers		Technicians	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Public administration .....		651,800	11.7	57,200	10.9	275,100	12.8	140,800	11.2	178,800	10.9
Federal, state, and local government .....	90	651,800	11.7	57,200	10.9	275,100	12.8	140,800	11.2	178,800	10.9
Federal government .....	901	260,000	4.7	31,600	6.0	113,800	5.3	64,700	5.1	50,000	3.0
State government .....	902	199,400	3.6	11,200	2.1	84,800	3.9	41,400	3.3	62,100	3.8
Local government .....	903	187,500	3.4	14,400	2.7	76,000	3.5	34,400	2.7	62,700	3.8
Not allocated by detailed industry .....		4,900	0.1	<	<	500	<	300	<	4,100	0.2
Not allocated by industry .....		48,800	0.9	600	0.1	22,200	1.0	10,100	0.8	15,900	1.0

KEY: < = The estimated actual value is less than 50 for numbers and less than 0.05 for percentages.  
n.e.c. = Not elsewhere classified.  
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTES: Because of rounding, components may not add to totals. Two-digit SIC information incorporates information on all 3-digit industries, including those 3-digit industries not displayed separately.

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

Table 2. Employed scientists, by broad industry group of employment  
and detailed occupation: 2001  
[Filled positions]

Broad industry group of employment	SIC	Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Total.....		2,157,300	199,600	90,900	131,700	284,200	1,451,000
Agriculture, forestry, and fishing .....		700	<	<	600	<	100
Agricultural services .....	07	700	<	<	600	<	100
Mining .....		8,300	7,200	<	<	200	900
Metal mining .....	10	400	400	<	<	<	<
Coal mining .....	12	100	100	<	<	<	<
Oil and gas extraction .....	13	7,500	6,400	<	<	200	800
Nonmetallic minerals, except fuels .....	14	300	200	<	<	<	<
Construction .....		4,700	200	<	<	700	3,800
General building contractors .....	15	1,100	<	<	<	400	800
Heavy construction, excluding building .....	16	800	<	<	<	<	800
Special trade contractors .....	17	2,800	200	<	<	200	2,300
Total manufacturing .....		313,500	51,800	8,400	23,500	20,900	208,900
Food and kindred products .....	20	12,600	2,700	200	3,300	800	5,700
Tobacco products .....	21	600	<	<	<	<	600
Textile mill products .....	22	900	300	<	<	100	500
Apparel and other textile products .....	23	1,100	<	<	<	300	800
Lumber and wood products .....	24	3,100	<	<	2,000	200	900
Furniture and fixtures .....	25	1,000	<	<	<	300	700
Paper and allied products .....	26	3,200	1,200	<	300	<	1,800
Printing and publishing .....	27	18,500	<	200	<	3,800	14,500
Chemicals and allied products .....	28	66,800	37,000	1,000	17,600	1,300	10,000
Petroleum and coal products .....	29	4,200	1,500	<	<	100	2,600
Rubber and misc. plastics products .....	30	4,200	1,500	<	<	400	2,400
Leather and leather products .....	31	200	<	<	<	100	200
Stone, clay and glass products .....	32	1,600	600	<	<	100	900
Primary metal industries .....	33	3,700	1,200	200	<	100	2,300
Fabricated metal products .....	34	5,100	700	<	<	500	3,900
Industrial machinery and equipment .....	35	66,100	600	1,000	<	3,600	60,900
Electronic & other electric equipment .....	36	50,400	800	400	<	5,100	44,200
Transportation equipment .....	37	29,200	700	4,700	<	800	22,900
Instruments and related products .....	38	38,200	3,000	700	400	2,900	31,200
Miscellaneous manufacturing industries .....	39	2,800	200	<	<	400	2,100
Transportation, communications, and utilities .....		112,000	4,600	4,800	300	10,000	92,300
Railroad transportation .....	40	1,200	<	200	<	100	1,000
Local and interurban transit .....	41	100	<	<	<	<	100
Trucking and warehousing .....	42	2,200	<	100	<	200	1,900
Water transportation .....	44	300	<	100	<	100	200
Transportation by air .....	45	7,900	200	1,100	<	1,100	5,400
Pipelines, except natural gas .....	46	100	<	<	<	<	100
Transportation services .....	47	2,600	<	200	<	200	2,300
Communications .....	48	78,000	500	2,000	<	6,300	69,200
Utilities and sanitary services .....	49	19,600	3,800	1,100	300	2,100	12,300

See explanatory information and SOURCE at end of table.

Table 2. Employed scientists, by broad industry group of employment  
and detailed occupation: 2001  
[Filled positions]

Broad industry group of employment	SIC	Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Wholesale trade .....		75,100	2,700	1,600	3,100	8,100	59,600
Wholesale trade, durable goods .....	50	58,300	400	1,300	200	5,600	50,800
Wholesale trade, nondurable goods .....	51	16,700	2,300	300	2,900	2,500	8,800
Retail trade .....		29,000	<	300	<	3,000	25,700
Building materials and garden supplies .....	52	2,900	<	<	<	100	2,800
General merchandise stores .....	53	2,800	<	100	<	300	2,400
Food stores .....	54	2,200	<	<	<	300	1,900
Automotive dealers and service stations .....	55	1,200	<	<	<	200	1,100
Apparel and accessory stores .....	56	700	<	<	<	200	600
Furniture and home furnishings stores .....	57	8,700	<	<	<	300	8,400
Eating and drinking places .....	58	700	<	<	<	<	700
Misc. retail stores .....	59	9,800	<	200	<	1,700	7,900
Finance, insurance, and real estate .....		190,400	300	20,900	200	21,100	147,900
Depository institutions .....	60	47,400	<	3,500	<	4,600	39,200
Nondepository institutions .....	61	17,100	<	800	<	2,100	14,200
Security and commodity brokers .....	62	26,200	<	1,300	<	4,300	20,600
Insurance carriers .....	63	73,900	<	12,500	100	6,100	55,200
Insurance agents, brokers, and service .....	64	11,200	<	1,400	<	1,700	8,200
Real estate .....	65	3,300	<	<	<	1,100	2,200
Holding and other investment offices .....	67	11,300	300	1,300	100	1,300	8,400
Services .....		1,126,600	70,400	37,300	60,000	163,600	795,300
Hotels and other lodging places .....	70	900	<	<	<	<	900
Personal services .....	72	500	<	<	<	200	300
Business services .....	73	613,300	1,800	12,900	800	22,300	575,500
Auto repair, services, and parking .....	75	1,700	<	100	<	200	1,500
Misc. repair services .....	76	800	<	<	<	100	600
Motion pictures .....	78	3,100	<	<	<	100	2,900
Amusement and recreation services .....	79	900	<	<	<	500	500
Health services .....	80	85,300	2,100	2,000	15,800	35,100	30,400
Legal services .....	81	6,000	<	<	<	100	5,900
Educational services .....	82	98,700	2,200	2,600	9,100	40,200	44,700
Social services .....	83	18,100	200	200	100	14,400	3,200
Museums, botanical, zoological gardens .....	84	1,500	<	<	1,000	200	300
Membership organizations .....	86	8,500	200	700	400	2,700	4,500
Engineering and management services .....	87	279,900	60,500	16,800	32,700	47,000	123,000
Services, n.e.c. ....	89	7,400	3,500	2,100	100	600	1,000

See explanatory information and SOURCE at end of table.

Table 2. Employed scientists, by broad industry group of employment  
and detailed occupation: 2001  
[Filled positions]

Broad industry group of employment	SIC	Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Public administration .....		275,100	56,700	15,700	39,000	53,000	110,600
Federal, state, and local government .....	90	275,100	56,700	15,700	39,000	53,000	110,600
Not allocated by industry .....		22,200	5,700	2,000	5,000	3,500	6,000

KEY:            <        = The estimated actual value is less than 50.  
                  n.e.c.    = Not elsewhere classified.  
                  SIC        = Standard Industrial Classification. See Technical Notes for explanation.

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

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

Table 3. Employed engineers, by broad industry group of employment  
and detailed occupation: 2001  
[Filled positions]

Broad industry group of employment	SIC	Engineers								
		Total	Aeronau- tical	Civil	Computer	Electrical/ electronics	Indus- trial	Mechan- ical	Sales	Other
Total.....		1,256,400	74,400	205,400	67,600	274,500	161,500	204,300	82,900	185,800
Agriculture, forestry, and fishing .....		300	<	100	<	<	<	100	<	100
Agricultural services .....	07	300	<	100	<	<	<	100	<	100
Mining .....		15,900	<	800	<	700	1,500	1,000	700	11,300
Metal mining .....	10	1,000	<	<	<	<	<	100	<	900
Coal mining .....	12	1,200	<	<	<	100	100	<	<	1,000
Oil and gas extraction .....	13	13,000	<	700	<	600	1,400	800	700	8,900
Nonmetallic minerals, except fuels .....	14	800	<	100	<	<	100	<	<	500
Construction .....		40,500	<	19,700	100	5,900	2,100	4,900	3,600	4,200
General building contractors .....	15	10,300	<	7,200	<	300	600	800	300	1,000
Heavy construction, excluding building .....	16	13,700	<	8,500	<	1,200	1,000	800	300	1,900
Special trade contractors .....	17	16,500	<	3,900	100	4,400	500	3,300	3,100	1,200
Total manufacturing .....		537,400	53,300	4,600	32,900	116,000	120,200	120,600	27,700	62,100
Food and kindred products .....	20	7,800	<	<	<	100	4,600	1,500	100	1,500
Tobacco products .....	21	<	<	<	<	<	<	<	<	<
Textile mill products .....	22	2,200	<	<	<	<	1,400	500	100	200
Apparel and other textile products .....	23	1,100	<	<	<	<	700	300	100	<
Lumber and wood products .....	24	2,100	<	200	<	<	1,300	400	200	100
Furniture and fixtures .....	25	3,900	<	<	<	<	2,600	1,000	200	100
Paper and allied products .....	26	8,200	<	200	<	600	3,400	1,700	200	2,200
Printing and publishing .....	27	1,700	<	<	100	200	700	500	<	200
Chemicals and allied products .....	28	32,200	<	800	100	1,600	5,700	3,800	1,100	19,100
Petroleum and coal products .....	29	4,600	<	300	<	300	1,000	600	100	2,400
Rubber and misc. plastics products .....	30	16,000	<	100	<	800	6,600	4,300	1,500	2,700
Leather and leather products .....	31	100	<	<	<	<	100	<	<	<
Stone, clay and glass products .....	32	5,800	<	500	<	500	1,600	1,400	400	1,500
Primary metal industries .....	33	12,100	<	100	100	1,200	3,700	2,800	600	3,700
Fabricated metal products .....	34	27,500	200	1,100	200	2,000	8,600	10,200	1,800	3,500
Industrial machinery and equipment .....	35	106,900	400	300	11,700	20,700	20,100	38,800	9,000	5,800
Electronic & other electric equipment .....	36	111,400	400	600	15,800	48,900	19,500	14,100	6,700	5,400
Transportation equipment .....	37	108,900	48,100	300	800	5,600	24,900	22,000	1,500	5,700
Instruments and related products .....	38	81,600	4,100	300	4,000	32,800	13,100	15,800	4,000	7,600
Miscellaneous manufacturing industries .....	39	3,300	<	100	100	700	900	1,100	100	400

See explanatory information and SOURCE at end of table.



Table 3. Employed engineers, by broad industry group of employment  
and detailed occupation: 2001  
[Filled positions]

Broad industry group of employment	SIC	Engineers								
		Total	Aeronau- tical	Civil	Computer	Electrical/ electronics	Indus- trial	Mechan- ical	Sales	Other
Transportation, communications, and utilities .....		83,200	4,400	4,500	36,700	5,200	2,700	4,800	4,000	20,800
Railroad transportation .....	40	6,000	<	500	200	<	<	<	<	5,400
Local and interurban transit .....	41	400	<	400	<	<	<	<	<	<
Trucking and warehousing .....	42	600	<	<	<	<	<	200	200	200
Water transportation .....	44	1,000	<	<	<	<	<	<	<	1,000
Transportation by air .....	45	5,500	4,400	100	100	<	100	400	100	200
Pipelines, except natural gas .....	46	600	<	200	100	<	100	100	<	200
Transportation services .....	47	600	<	<	<	200	100	100	<	200
Communications .....	48	36,700	<	500	25,800	4,900	200	1,900	3,300	200
Utilities and sanitary services .....	49	31,900	<	2,900	10,400	200	2,200	2,200	500	13,400
Wholesale trade .....		60,700	300	300	19,300	2,700	8,700	3,400	23,800	2,200
Wholesale trade, durable goods .....	50	56,900	300	200	19,000	2,600	8,200	2,800	22,600	1,300
Wholesale trade, nondurable goods .....	51	3,700	<	<	300	100	500	600	1,200	900
Retail trade .....		3,900	<	100	400	<	100	600	2,800	<
Building materials and garden supplies .....	52	400	<	<	<	<	<	100	300	<
General merchandise stores .....	53	300	<	100	<	<	<	200	<	<
Food stores .....	54	100	<	<	<	<	<	100	<	<
Automotive dealers and service stations .....	55	1,100	<	<	<	<	<	<	1,100	<
Furniture and homefurnishings stores .....	57	1,400	<	<	200	<	100	<	1,100	<
Misc. retail stores .....	59	700	<	<	100	<	100	300	300	<
Finance, insurance, and real estate .....		7,400	<	1,100	800	800	800	600	600	2,800
Depository institutions .....	60	1,000	<	<	300	300	<	<	400	<
Nondepository institutions .....	61	100	<	<	<	100	<	<	<	<
Security and commodity brokers .....	62	300	<	<	300	<	<	<	<	<
Insurance carriers .....	63	2,400	<	<	<	100	100	300	<	1,900
Insurance agents, brokers, and service .....	64	800	<	<	<	<	<	<	<	800
Real estate .....	65	1,900	<	1,000	<	<	700	100	200	<
Holding and other investment offices .....	67	900	<	100	200	200	100	200	100	100
Services .....		356,300	9,100	109,800	66,000	21,500	54,600	24,700	19,200	51,400
Hotels and other lodging places .....	70	400	<	200	<	<	100	<	100	100
Personal services .....	72	100	<	<	<	<	<	100	<	<
Business services .....	73	68,100	1,800	1,900	12,000	14,100	12,600	12,100	13,000	700
Auto repair, services, and parking .....	75	500	<	<	100	<	100	<	300	<
Misc. repair services .....	76	2,700	<	<	1,500	200	800	100	100	100
Motion pictures .....	78	1,000	<	<	300	100	<	600	100	<
Amusement and recreation services .....	79	400	<	<	<	<	200	<	<	100
Health services .....	80	2,800	<	200	100	<	100	100	100	2,300
Educational services .....	82	2,100	<	700	400	<	500	100	100	300
Social services .....	83	<	<	<	<	<	<	<	<	<
Museums, botanical, zoological gardens .....	84	100	<	<	<	<	<	<	<	100
Membership organizations .....	86	400	<	200	100	<	100	100	<	<
Engineering and management services .....	87	276,300	7,300	106,400	51,500	7,100	40,200	11,600	5,300	46,900
Services, n.e.c. ....	89	1,500	<	400	<	<	100	<	200	900

See explanatory information and SOURCE at end of table.

Table 3. Employed engineers, by broad industry group of employment  
and detailed occupation: 2001  
[Filled positions]

Broad industry group of employment	SIC	Engineers								
		Total	Aeronau- tical	Civil	Computer	Electrical/ electronics	Indus- trial	Mechan- ical	Sales	Other
Public administration .....		140,800	7,100	64,000	27,200	3,100	10,500	2,800	<	26,000
Federal, state, and local government .....	90	140,800	7,100	64,000	27,200	3,100	10,500	2,800	<	26,000
Not allocated by industry .....		10,100	200	400	1,600	1,300	400	800	500	5,000

KEY: < = The estimated actual value is less than 50.  
n.e.c. = Not elsewhere classified.  
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTES: Because of rounding, components may not add to totals.  
Relative standard errors of the employment estimates are not displayed here but are available on request.

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

Table 4. Employed technicians, by broad industry group of employment  
and detailed occupation: 2001  
[Filled positions]

Broad industry group of employment	SIC	Total	Computer programmers	Drafters	Science <sup>1</sup>	Engineering technicians				
						Total	Electrical/ electronic	Mechanical	Civil	Other
Total.....		1,641,700	522,400	207,600	199,700	712,000	262,900	54,400	85,900	308,800
Agriculture, forestry, and fishing .....		2,800	<	1,200	1,600	<	<	<	<	<
Agricultural services .....	07	2,800	<	1,200	1,600	<	<	<	<	<
Mining .....		15,100	1,200	100	9,600	4,100	900	600	100	2,400
Metal mining .....	10	1,000	<	<	500	400	100	<	100	300
Coal mining .....	12	700	<	<	200	500	<	<	<	500
Oil and gas extraction .....	13	12,700	1,100	100	8,500	3,100	900	600	100	1,500
Nonmetallic minerals, except fuels .....	14	700	100	<	400	200	<	<	<	200
Construction .....		29,300	1,900	15,100	100	12,200	3,300	1,600	2,000	5,300
General building contractors .....	15	7,600	500	5,400	<	1,800	100	100	700	900
Heavy construction, excluding building .....	16	5,400	400	1,100	<	3,900	300	100	800	2,700
Special trade contractors .....	17	16,400	1,100	8,700	100	6,500	2,900	1,400	500	1,700
Total manufacturing .....		405,900	69,800	64,600	64,100	207,500	110,000	32,600	800	64,100
Food and kindred products .....	20	12,200	1,700	100	8,000	2,400	200	900	<	1,200
Tobacco products .....	21	400	300	<	100	<	<	<	<	<
Textile mill products .....	22	2,500	800	<	900	800	100	100	<	600
Apparel and other textile products .....	23	1,300	700	<	100	400	<	100	<	300
Lumber and wood products .....	24	4,200	700	1,600	800	1,100	100	200	<	800
Furniture and fixtures .....	25	3,900	1,400	1,200	<	1,300	<	300	<	1,000
Paper and allied products .....	26	5,500	1,000	400	1,200	2,900	500	500	<	1,900
Printing and publishing .....	27	8,900	7,300	<	<	1,600	400	<	<	1,200
Chemicals and allied products .....	28	48,600	2,900	900	37,800	7,000	1,700	1,800	<	3,500
Petroleum and coal products .....	29	3,800	600	100	2,600	700	200	100	<	300
Rubber and misc. plastics products .....	30	10,300	2,100	1,000	1,700	5,500	1,300	1,600	<	2,600
Leather and leather products .....	31	200	100	<	100	<	<	<	<	<
Stone, clay and glass products .....	32	4,500	400	700	1,100	2,300	800	300	200	900
Primary metal industries .....	33	9,000	1,400	1,300	2,100	4,200	1,500	1,100	<	1,500
Fabricated metal products .....	34	24,800	4,600	11,700	800	7,800	1,900	2,300	100	3,500
Industrial machinery and equipment .....	35	72,500	23,900	19,600	900	28,000	13,700	7,500	100	6,800
Electronic & other electric equipment .....	36	98,200	7,600	10,000	1,100	79,400	59,600	6,500	100	13,200
Transportation equipment .....	37	45,800	7,000	8,700	1,400	28,700	6,600	5,000	<	17,100
Instruments and related products .....	38	45,900	4,500	6,000	3,200	32,300	20,700	4,100	200	7,300
Miscellaneous manufacturing industries .....	39	3,600	900	1,200	200	1,300	600	300	<	400

See explanatory information and SOURCE at end of table.

Table 4. Employed technicians, by broad industry group of employment  
and detailed occupation: 2001  
[Filled positions]

Broad industry group of employment	SIC	Total	Computer programmers	Drafters	Science <sup>1</sup>	Engineering technicians				
						Total	Electrical/ electronic	Mechanical	Civil	Other
Transportation, communications, and utilities .....		115,500	15,600	5,600	7,600	86,700	31,400	800	2,700	51,800
Railroad transportation .....	40	4,500	200	<	<	4,300	200	<	<	4,100
Local and interurban transit .....	41	400	100	<	<	300	<	<	<	300
Trucking and warehousing .....	42	2,400	1,500	<	<	900	100	<	<	800
Water transportation .....	44	600	300	<	<	200	<	<	<	200
Transportation by air .....	45	10,700	3,300	<	<	7,400	400	100	<	6,900
Pipelines, except natural gas .....	46	400	100	<	100	200	100	<	<	<
Transportation services .....	47	3,200	1,800	<	<	1,300	100	<	<	1,300
Communications .....	48	61,400	4,700	1,800	<	54,900	22,000	100	1,100	31,700
Utilities and sanitary services .....	49	32,100	3,600	3,800	7,500	17,300	8,600	600	1,600	6,500
Wholesale trade .....		91,600	42,500	3,600	4,100	41,500	36,900	2,000	100	2,600
Wholesale trade, durable goods .....	50	78,900	35,500	3,500	500	39,400	35,500	1,800	100	2,000
Wholesale trade, nondurable goods .....	51	12,800	6,900	100	3,600	2,100	1,400	200	<	500
Retail trade .....		16,300	13,200	1,400	<	1,700	800	300	<	600
Building materials and garden supplies .....	52	1,000	200	800	<	<	<	<	<	<
General merchandise stores .....	53	1,900	1,600	100	<	300	100	200	<	100
Food stores .....	54	1,000	900	100	<	<	<	<	<	<
Automotive dealers and service stations .....	55	1,100	500	<	<	600	200	100	<	300
Apparel and accessory stores .....	56	900	800	100	<	<	<	<	<	<
Furniture and homefurnishings stores .....	57	5,200	4,500	300	<	500	300	<	<	100
Eating and drinking places .....	58	100	100	<	<	<	<	<	<	<
Misc. retail stores .....	59	5,000	4,600	100	<	400	200	<	<	100
Finance, insurance, and real estate .....		60,600	57,800	300	600	1,900	400	<	100	1,300
Depository institutions .....	60	12,700	12,700	<	<	<	<	<	<	<
Nondepository institutions .....	61	3,500	3,500	<	<	<	<	<	<	<
Security and commodity brokers .....	62	11,400	11,400	<	<	100	<	<	<	100
Insurance carriers .....	63	23,800	23,200	<	300	300	<	<	<	300
Insurance agents, brokers, and service .....	64	4,200	4,100	<	100	<	<	<	<	<
Real estate .....	65	2,600	1,200	300	<	1,000	200	<	100	700
Holding and other investment offices .....	67	2,500	1,700	<	300	500	100	<	<	300

See explanatory information and SOURCE at end of table.

Table 4. Employed technicians, by broad industry group of employment  
and detailed occupation: 2001  
[Filled positions]

Broad industry group of employment	SIC	Total	Computer programmers	Drafters	Science <sup>1</sup>	Engineering technicians				
						Total	Electrical/ electronic	Mechanical	Civil	Other
Services .....		709,900	301,300	106,900	64,000	237,700	49,300	15,500	38,700	134,200
Hotels and other lodging places .....	70	1,200	200	<	<	1,000	100	<	<	900
Personal services .....	72	700	700	<	<	<	<	<	<	<
Business services .....	73	284,400	235,700	10,700	2,600	35,400	18,400	3,000	100	13,900
Auto repair, services, and parking .....	75	2,200	1,100	100	<	1,000	200	<	<	900
Misc. repair services .....	76	4,600	500	500	<	3,600	3,400	<	<	200
Motion pictures .....	78	11,100	1,500	<	<	9,600	900	<	<	8,600
Amusement and recreation services .....	79	5,500	800	<	<	4,700	500	<	<	4,200
Health services .....	80	15,700	8,900	100	5,500	1,300	500	200	<	600
Legal services .....	81	800	800	<	<	<	<	<	<	<
Educational services .....	82	31,000	18,600	200	4,800	7,400	900	100	200	6,200
Social services .....	83	1,700	1,600	<	100	<	<	<	<	<
Museums, botanical, zoological gardens .....	84	600	100	<	<	400	100	<	<	300
Membership organizations .....	86	3,100	2,200	<	400	500	<	<	<	500
Engineering and management services .....	87	345,600	28,200	95,200	50,000	172,300	24,200	12,300	38,300	97,500
Services, n.e.c. ....	89	1,800	400	100	700	600	100	<	100	400
Public administration .....		178,800	18,500	6,400	44,700	109,300	28,600	400	39,200	41,100
Federal, state, and local government .....	90	178,800	18,500	6,400	44,700	109,300	28,600	400	39,200	41,100
Not allocated by industry .....		15,900	600	2,400	3,300	9,600	1,500	500	2,200	5,400

<sup>1</sup>The classification "science technicians" includes biological, agricultural, and food technicians and technologists, except health; chemical technicians and technologists, except health; nuclear technicians and technologists; petroleum technicians and technologists; all other physical and life science technicians and technologists; and mathematical technicians.

KEY: < = The estimated actual value is less than 50.  
n.e.c. = Not elsewhere classified.  
SIC = Standard Industrial Classification. See Technical Notes for explanation.

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

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

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Crop services (SIC 0720)			
Scientific and technical personnel.....	610	0.5	(nc)
Scientists .....	220	0.2	(nc)
Life scientists .....	220	0.2	(nc)
Agricultural scientists .....	220	0.2	10
Engineers .....	80	0.1	(nc)
Mechanical .....	30	<	21
Other engineers .....	50	<	(nc)
Agricultural .....	50	<	12
Technicians .....	310	0.2	(nc)
Physical and life science technicians .....	310	0.2	(nc)
Agricultural and food science technicians .....	240	0.2	38
Biological technicians .....	70	0.1	37
Animal services, except veterinary (SIC 0750)			
Scientific and technical personnel.....	1,290	2.1	(nc)
Scientists .....	150	0.3	(nc)
Life scientists .....	150	0.3	(nc)
Agricultural scientists .....	150	0.3	30
Technicians .....	1,140	1.9	(nc)
Physical and life science technicians .....	1,140	1.9	(nc)
Agricultural and food science technicians .....	1,140	1.9	24
Farm labor and management services (SIC 0760)			
Scientific and technical personnel.....	40	<	(nc)
Scientists .....	40	<	(nc)
Life scientists .....	40	<	(nc)
Agricultural scientists .....	40	<	11
Landscape and horticultural services (SIC 0780)			
Scientific and technical personnel.....	1,510	0.3	(nc)
Scientists .....	200	<	(nc)
Life scientists .....	200	<	(nc)
Agricultural scientists .....	200	<	29
Engineers .....	130	<	(nc)
Civil .....	130	<	27
Technicians .....	1,180	0.2	(nc)
Drafters .....	1,180	0.2	(nc)
Architectural and civil drafters .....	1,180	0.2	34

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
<b>Iron ores (SIC 1010)</b>			
Scientific and technical personnel.....	70	1.3	(nc)
Engineers .....	70	1.3	(nc)
Other engineers .....	70	1.3	(nc)
Mining and geological .....	70	1.3	31
<b>Copper ores (SIC 1020)</b>			
Scientific and technical personnel.....	310	3.5	(nc)
Managers of scientific and technical personnel .....	40	0.5	(nc)
Engineering managers .....	40	0.5	5
Scientists .....	50	0.6	(nc)
Physical scientists .....	50	0.6	(nc)
Chemists .....	50	0.6	19
Engineers .....	140	1.6	(nc)
Mechanical .....	30	0.3	13
Other engineers .....	110	1.3	(nc)
Environmental .....	40	0.5	10
Mining and geological .....	70	0.8	11
Technicians .....	80	0.9	(nc)
Computer, numerical tool, and process control programmers .....	30	0.3	(nc)
Computer programmers .....	30	0.3	5
Physical and life science technicians .....	50	0.6	(nc)
Chemical technicians, except health .....	50	0.6	44
<b>Gold and silver ores (SIC 1040)</b>			
Scientific and technical personnel.....	920	8.7	(nc)
Managers of scientific and technical personnel .....	40	0.4	(nc)
Engineering managers .....	40	0.4	11
Scientists .....	160	1.5	(nc)
Physical scientists .....	160	1.5	(nc)
Geoscientists, except hydrologists and geographers .....	160	1.5	8
Engineers .....	330	3.1	(nc)
Other engineers .....	330	3.1	(nc)
Environmental .....	50	0.5	14
Mining and geological .....	280	2.6	11

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Gold and silver ores (SIC 1040) -- continued:			
Technicians .....	390	3.7	(nc)
Engineering technicians .....	80	0.8	(nc)
Civil engineering technicians .....	30	0.3	16
Environmental engineering technicians .....	50	0.5	15
Physical and life science technicians .....	260	2.5	(nc)
Chemical technicians, except health .....	260	2.5	9
Surveying, cartographic, photogrammetric, and mapping technicians .....	50	0.5	(nc)
Surveyors .....	50	0.5	13
Metal mining services (SIC 1080)			
Scientific and technical personnel.....	50	2.6	(nc)
Scientists .....	50	2.6	(nc)
Physical scientists .....	50	2.6	(nc)
Geoscientists, except hydrologists and geographers .....	50	2.6	13
Bituminous coal and lignite mining (SIC 1220)			
Scientific and technical personnel.....	2,210	2.8	(nc)
Managers of scientific and technical personnel .....	240	0.3	(nc)
Computer and information systems managers .....	40	0.1	33
Engineering managers .....	200	0.3	10
Scientists .....	120	0.2	(nc)
Physical scientists .....	120	0.2	(nc)
Environmental scientists and specialists, including health .....	60	0.1	16
Geoscientists, except hydrologists and geographers .....	60	0.1	24
Engineers .....	1,150	1.5	(nc)
Electrical/electronics .....	50	0.1	(nc)
Electrical .....	50	0.1	22
Industrial .....	90	0.1	28
Mechanical .....	30	<	30
Other engineers .....	980	1.3	(nc)
Environmental .....	110	0.1	15
Mining and geological .....	870	1.1	6
Technicians .....	700	0.9	(nc)
Computer, numerical tool, and process control programmers .....	40	0.1	(nc)
Computer programmers .....	40	0.1	26
Engineering technicians .....	80	0.1	(nc)
Civil engineering technicians .....	30	<	21
Environmental engineering technicians .....	50	0.1	28
Physical and life science technicians .....	180	0.2	(nc)
Environmental science and protection technicians, including health .....	100	0.1	30
Geological and petroleum technicians .....	80	0.1	26
Surveying, cartographic, photogrammetric, and mapping technicians .....	400	0.5	(nc)
Surveying and mapping technicians .....	210	0.3	35
Surveyors .....	190	0.2	7

See explanatory information and SOURCE at end of table.



Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Crude petroleum and natural gas (SIC 1310)			
Scientific and technical personnel.....	17,520	14.0	(nc)
Managers of scientific and technical personnel .....	1,560	1.3	(nc)
Computer and information systems managers .....	170	0.1	23
Engineering managers .....	1,250	1.0	8
Natural sciences managers .....	140	0.1	14
Scientists .....	5,210	4.2	(nc)
Computer scientists .....	620	0.5	(nc)
Computer systems analysts .....	520	0.4	14
Network and computer systems administrators .....	100	0.1	27
Physical scientists .....	4,560	3.6	(nc)
Environmental scientists and specialists, including health .....	420	0.3	34
Geoscientists, except hydrologists and geographers .....	4,140	3.3	9
Social scientists .....	30	<	(nc)
Economists .....	30	<	20
Engineers .....	8,830	7.1	(nc)
Civil .....	290	0.2	14
Electrical/electronics .....	270	0.2	(nc)
Electrical .....	270	0.2	12
Industrial .....	1,190	1.0	12
Other engineers .....	7,080	5.7	(nc)
Chemical .....	340	0.3	35
Environmental .....	270	0.2	10
Metallurgical/metallurgists .....	110	0.1	23
Mining and geological .....	1,060	0.9	23
Petroleum .....	5,180	4.1	7
Safety .....	120	0.1	20
Technicians .....	1,920	1.5	(nc)
Drafters .....	140	0.1	(nc)
Mechanical drafters .....	140	0.1	36
Engineering technicians .....	920	0.7	(nc)
Electrical/electronics engineering technicians .....	250	0.2	25
Electro-mechanical technicians .....	60	0.1	34
Environmental engineering technicians .....	80	0.1	11
Industrial engineering technicians .....	160	0.1	11
Mechanical engineering technicians .....	370	0.3	34
Physical and life science technicians .....	380	0.3	(nc)
Environmental science and protection technicians, including health .....	380	0.3	16
Surveying, cartographic, photogrammetric, and mapping technicians .....	480	0.4	(nc)
Surveying and mapping technicians .....	480	0.4	43

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
<b>Natural gas liquids (SIC 1320)</b>			
Scientific and technical personnel.....	90	2.4	(nc)
Technicians .....	90	2.4	(nc)
Engineering technicians .....	90	2.4	(nc)
Electrical/electronics engineering technicians .....	90	2.4	29
<b>Oil and gas field services (SIC 1380)</b>			
Scientific and technical personnel.....	6,370	3.1	(nc)
Scientists .....	80	<	(nc)
Social scientists .....	80	<	(nc)
Market research analysts .....	80	<	35
Engineers .....	1,110	0.5	(nc)
Mechanical .....	580	0.3	32
Sales .....	440	0.2	20
Other engineers .....	90	<	(nc)
Marine .....	90	<	25
Technicians .....	5,180	2.5	(nc)
Computer, numerical tool, and process control programmers .....	530	0.3	(nc)
Computer programmers .....	530	0.3	13
Engineering technicians .....	600	0.3	(nc)
Electrical/electronics engineering technicians .....	420	0.2	21
Industrial engineering technicians .....	180	0.1	45
Physical and life science technicians .....	3,760	1.8	(nc)
Geological and petroleum technicians .....	3,760	1.8	38
Surveying, cartographic, photogrammetric, and mapping technicians .....	290	0.1	(nc)
Cartographers and photogrammetrists .....	40	<	42
Surveyors .....	250	0.1	23
<b>Crushed and broken stone (SIC 1420)</b>			
Scientific and technical personnel.....	580	1.3	(nc)
Managers of scientific and technical personnel .....	70	0.2	(nc)
Engineering managers .....	70	0.2	12
Scientists .....	30	0.1	(nc)
Physical scientists .....	30	0.1	(nc)
Chemists .....	30	0.1	25
Engineers .....	270	0.6	(nc)
Civil .....	40	0.1	24
Industrial .....	30	0.1	14
Other engineers .....	200	0.5	(nc)
Mining and geological .....	200	0.5	12

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Crushed and broken stone (SIC 1420) -- continued:			
Technicians .....	210	0.5	(nc)
Computer, numerical tool, and process control programmers .....	70	0.2	(nc)
Computer programmers .....	70	0.2	15
Physical and life science technicians .....	140	0.3	(nc)
Chemical technicians, except health .....	70	0.2	14
Environmental science and protection technicians, including health .....	40	0.1	15
Geological and petroleum technicians .....	30	0.1	33
Sand and gravel (SIC 1440)			
Scientific and technical personnel.....	200	0.6	(nc)
Managers of scientific and technical personnel .....	50	0.1	(nc)
Engineering managers .....	50	0.1	30
Engineers .....	100	0.3	(nc)
Other engineers .....	100	0.3	(nc)
Mining and geological .....	100	0.3	14
Technicians .....	50	0.1	(nc)
Physical and life science technicians .....	50	0.1	(nc)
Chemical technicians, except health .....	50	0.1	12
Clay, ceramic, and refractory minerals (SIC 1450)			
Scientific and technical personnel.....	80	1.2	(nc)
Engineers .....	30	0.5	(nc)
Other engineers .....	30	0.5	(nc)
Mining and geological .....	30	0.5	7
Technicians .....	50	0.8	(nc)
Physical and life science technicians .....	50	0.8	(nc)
Chemical technicians, except health .....	50	0.8	8
Chemical and fertilizer minerals (SIC 1470)			
Scientific and technical personnel.....	150	1.6	(nc)
Managers of scientific and technical personnel .....	40	0.4	(nc)
Engineering managers .....	40	0.4	13
Engineers .....	50	0.5	(nc)
Other engineers .....	50	0.5	(nc)
Mining and geological .....	50	0.5	10
Technicians .....	60	0.6	(nc)
Physical and life science technicians .....	60	0.6	(nc)
Chemical technicians, except health .....	60	0.6	12

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Misc. nonmetallic minerals (SIC 1490)			
Scientific and technical personnel.....	60	1.2	(nc)
Technicians .....	60	1.2	(nc)
Physical and life science technicians .....	60	1.2	(nc)
Chemical technicians, except health .....	60	1.2	13
Residential building construction (SIC 1520)			
Scientific and technical personnel.....	4,270	0.6	(nc)
Managers of scientific and technical personnel .....	220	<	(nc)
Engineering managers .....	220	<	18
Scientists .....	140	<	(nc)
Computer scientists .....	140	<	(nc)
Network and computer systems administrators .....	140	<	11
Engineers .....	680	0.1	(nc)
Civil .....	680	0.1	17
Technicians .....	3,230	0.4	(nc)
Computer, numerical tool, and process control programmers .....	90	<	(nc)
Computer programmers .....	90	<	15
Drafters .....	3,060	0.4	(nc)
Architectural and civil drafters .....	3,000	0.4	14
Electrical and electronics drafters .....	60	<	32
Surveying, cartographic, photogrammetric, and mapping technicians .....	80	<	(nc)
Surveyors .....	80	<	18
Operative builders (SIC 1530)			
Scientific and technical personnel.....	730	2.2	(nc)
Managers of scientific and technical personnel .....	60	0.2	(nc)
Engineering managers .....	60	0.2	41
Scientists .....	40	0.1	(nc)
Computer scientists .....	40	0.1	(nc)
Network and computer systems administrators .....	40	0.1	9
Engineers .....	240	0.7	(nc)
Civil .....	240	0.7	26
Technicians .....	390	1.2	(nc)
Computer, numerical tool, and process control programmers .....	70	0.2	(nc)
Computer programmers .....	70	0.2	19
Drafters .....	290	0.9	(nc)
Architectural and civil drafters .....	290	0.9	24
Surveying, cartographic, photogrammetric, and mapping technicians .....	30	0.1	(nc)
Surveyors .....	30	0.1	33

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Nonresidential building excluding building (SIC 1540)			
Scientific and technical personnel.....	15,710	2.3	(nc)
Managers of scientific and technical personnel .....	2,030	0.3	(nc)
Computer and information systems managers .....	80	<	18
Engineering managers .....	1,950	0.3	26
Scientists .....	750	0.1	(nc)
Computer scientists .....	530	0.1	(nc)
Computer systems analysts .....	40	<	30
Network and computer systems administrators .....	460	0.1	8
Network systems/data communications analysts .....	30	<	27
Social scientists .....	220	<	(nc)
Market research analysts .....	220	<	29
Engineers .....	9,160	1.4	(nc)
Civil .....	6,300	0.9	7
Electrical/electronics .....	290	<	(nc)
Electrical .....	290	<	13
Industrial .....	550	0.1	18
Mechanical .....	820	0.1	14
Sales .....	240	<	15
Other engineers .....	960	0.1	(nc)
Environmental .....	150	<	20
Safety .....	810	0.1	11
Technicians .....	3,770	0.6	(nc)
Computer, numerical tool, and process control programmers .....	310	0.1	(nc)
Computer programmers .....	310	0.1	16
Drafters .....	2,000	0.3	(nc)
Architectural and civil drafters .....	2,000	0.3	18
Engineering technicians .....	850	0.1	(nc)
Civil engineering technicians .....	600	0.1	12
Electrical/electronics engineering technicians .....	40	<	18
Environmental engineering technicians .....	100	<	14
Industrial engineering technicians .....	60	<	22
Mechanical engineering technicians .....	50	<	21
Surveying, cartographic, photogrammetric, and mapping technicians .....	610	0.1	(nc)
Surveying and mapping technicians .....	180	<	14
Surveyors .....	430	0.1	10
Highway and street construction (SIC 1610)			
Scientific and technical personnel.....	4,680	1.5	(nc)
Managers of scientific and technical personnel .....	350	0.1	(nc)
Engineering managers .....	350	0.1	11
Scientists .....	100	<	(nc)
Computer scientists .....	100	<	(nc)
Network and computer systems administrators .....	100	<	9

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Engineers .....	2,620	0.8	(nc)
Civil .....	1,960	0.6	9
Industrial .....	270	0.1	21
Mechanical .....	60	<	26
Sales .....	50	<	27
Other engineers .....	280	0.1	(nc)
Environmental .....	60	<	41
Safety .....	220	0.1	9
Technicians .....	1,610	0.5	(nc)
Computer, numerical tool, and process control programmers .....	70	<	(nc)
Computer programmers .....	70	<	14
Drafters .....	70	<	(nc)
Architectural and civil drafters .....	70	<	19
Engineering technicians .....	450	0.1	(nc)
Civil engineering technicians .....	290	0.1	11
Environmental engineering technicians .....	60	<	25
Industrial engineering technicians .....	30	<	25
Mechanical engineering technicians .....	70	<	46
Surveying, cartographic, photogrammetric, and mapping technicians .....	1,020	0.3	(nc)
Surveying and mapping technicians .....	240	0.1	8
Surveyors .....	780	0.2	5
Heavy construction, except highway (SIC 1620)			
Scientific and technical personnel.....	15,120	2.4	(nc)
Managers of scientific and technical personnel .....	1,770	0.3	(nc)
Engineering managers .....	1,770	0.3	18
Scientists .....	360	0.1	(nc)
Computer scientists .....	360	0.1	(nc)
Network and computer systems administrators .....	360	0.1	27
Engineers .....	9,770	1.5	(nc)
Civil .....	6,550	1.0	13
Industrial .....	710	0.1	22
Mechanical .....	760	0.1	24
Sales .....	200	<	16
Other engineers .....	1,550	0.2	(nc)
Environmental .....	350	0.1	23
Safety .....	1,200	0.2	12

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Heavy construction, except highway (SIC 1620) -- continued:			
Technicians .....	3,220	0.5	(nc)
Computer, numerical tool, and process control programmers .....	310	0.1	(nc)
Computer programmers .....	310	0.1	25
Drafters .....	890	0.1	(nc)
Architectural and civil drafters .....	890	0.1	27
Engineering technicians .....	710	0.1	(nc)
Civil engineering technicians .....	530	0.1	30
Environmental engineering technicians .....	60	<	27
Industrial engineering technicians .....	60	<	17
Mechanical engineering technicians .....	60	<	24
Surveying, cartographic, photogrammetric, and mapping technicians .....	1,310	0.2	(nc)
Surveying and mapping technicians .....	380	0.1	18
Surveyors .....	930	0.2	7
Plumbing, heating, air conditioning (SIC 1710)			
Scientific and technical personnel.....	9,940	1.1	(nc)
Managers of scientific and technical personnel .....	710	0.1	(nc)
Engineering managers .....	710	0.1	11
Scientists .....	280	<	(nc)
Computer scientists .....	280	<	(nc)
Network and computer systems administrators .....	280	<	7
Engineers .....	4,850	0.5	(nc)
Civil .....	930	0.1	11
Electrical/electronics .....	370	<	(nc)
Electrical .....	370	<	34
Industrial .....	190	<	22
Mechanical .....	1,860	0.2	7
Sales .....	1,200	0.1	6
Other engineers .....	300	<	(nc)
Safety .....	300	<	14
Technicians .....	4,100	0.4	(nc)
Computer, numerical tool, and process control programmers .....	210	<	(nc)
Computer programmers .....	210	<	14
Drafters .....	2,530	0.3	(nc)
Architectural and civil drafters .....	1,740	0.2	12
Electrical and electronics drafters .....	580	0.1	14
Mechanical drafters .....	210	<	15
Engineering technicians .....	1,300	0.1	(nc)
Civil engineering technicians .....	110	<	14
Electrical/electronics engineering technicians .....	280	<	16
Industrial engineering technicians .....	170	<	23
Mechanical engineering technicians .....	740	0.1	10
Surveying, cartographic, photogrammetric, and mapping technicians .....	60	<	(nc)
Surveying and mapping technicians .....	60	<	26

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Painting and paper hanging (SIC 1720)			
Scientific and technical personnel.....	30	<	(nc)
Engineers .....	30	<	(nc)
Other engineers .....	30	<	(nc)
Safety .....	30	<	10
Electrical work (SIC 1730)			
Scientific and technical personnel.....	13,630	1.6	(nc)
Managers of scientific and technical personnel .....	660	0.1	(nc)
Computer and information systems managers .....	140	<	13
Engineering managers .....	520	0.1	11
Scientists .....	1,470	0.2	(nc)
Computer scientists .....	1,470	0.2	(nc)
Computer software, systems .....	230	<	42
Computer systems analysts .....	220	<	43
Network and computer systems administrators .....	620	0.1	9
Network systems/data communications analysts .....	400	0.1	23
Engineers .....	5,050	0.6	(nc)
Civil .....	560	0.1	29
Electrical/electronics .....	3,510	0.4	(nc)
Electrical .....	3,130	0.4	13
Electronics .....	380	<	41
Sales .....	810	0.1	23
Other engineers .....	170	<	(nc)
Safety .....	170	<	8
Technicians .....	6,450	0.8	(nc)
Computer, numerical tool, and process control programmers .....	620	0.1	(nc)
Computer programmers .....	620	0.1	12
Drafters .....	3,310	0.4	(nc)
Architectural and civil drafters .....	170	<	26
Electrical and electronics drafters .....	3,080	0.4	12
Mechanical drafters .....	60	<	32
Engineering technicians .....	2,490	0.3	(nc)
Electronical/electronics engineering technicians .....	2,350	0.3	15
Mechanical engineering technicians .....	140	<	27
Surveying, cartographic, photogrammetric, and mapping technicians .....	30	<	(nc)
Surveying and mapping technicians .....	30	<	31
Masonry, stonework, and plastering (SIC 1740)			
Scientific and technical personnel.....	640	0.1	(nc)
Managers of scientific and technical personnel .....	80	<	(nc)
Engineering managers .....	80	<	21

See explanatory information and SOURCE at end of table.



Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Masonry, stonework, and plastering (SIC 1740) -- continued:			
Engineers .....	370	0.1	(nc)
Civil .....	230	<	23
Sales .....	80	<	18
Other engineers .....	60	<	(nc)
Safety .....	60	<	7
Technicians .....	190	<	(nc)
Drafters .....	190	<	(nc)
Architectural and civil drafters .....	190	<	25
Carpentry and floor work (SIC 1750)			
Scientific and technical personnel.....	660	0.2	(nc)
Managers of scientific and technical personnel .....	40	<	(nc)
Engineering managers .....	40	<	33
Engineers .....	170	0.1	(nc)
Civil .....	80	<	19
Sales .....	90	<	23
Technicians .....	450	0.1	(nc)
Drafters .....	450	0.1	(nc)
Architectural and civil drafters .....	450	0.1	19
Roofing, siding, and sheet-metal work (SIC 1760)			
Scientific and technical personnel.....	500	0.2	(nc)
Managers of scientific and technical personnel .....	40	<	(nc)
Engineering managers .....	40	<	23
Scientists .....	50	<	(nc)
Computer scientists .....	50	<	(nc)
Network and computer systems administrators .....	50	<	44
Engineers .....	230	0.1	(nc)
Civil .....	50	<	21
Sales .....	120	0.1	15
Other engineers .....	60	<	(nc)
Safety .....	60	<	12
Technicians .....	180	0.1	(nc)
Drafters .....	180	0.1	(nc)
Architectural and civil drafters .....	180	0.1	15
Concrete work (SIC 1770)			
Scientific and technical personnel.....	1,180	0.3	(nc)
Managers of scientific and technical personnel .....	150	<	(nc)
Engineering managers .....	150	<	24

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Engineers .....	750	0.2	(nc)
Civil .....	640	0.2	22
Sales .....	60	<	17
Other engineers .....	50	<	(nc)
Safety .....	50	<	10
Technicians .....	280	0.1	(nc)
Drafters .....	70	<	(nc)
Architectural and civil drafters .....	70	<	15
Engineering technicians .....	70	<	(nc)
Civil engineering technicians .....	40	<	17
Mechanical engineering technicians .....	30	<	6
Surveying, cartographic, photogrammetric, and mapping technicians .....	140	<	(nc)
Surveyors .....	140	<	15
Misc. special trade contractors (SIC 1790)			
Scientific and technical personnel.....	8,000	1.0	(nc)
Managers of scientific and technical personnel .....	350	0.1	(nc)
Engineering managers .....	350	0.1	19
Scientists .....	320	<	(nc)
Computer scientists .....	100	<	(nc)
Network and computer systems administrators .....	100	<	8
Physical scientists .....	170	<	(nc)
Chemists .....	80	<	19
Environmental scientists and specialists, including health .....	30	<	26
Geoscientists, except hydrologists and geographers .....	30	<	37
Hydrologists .....	30	<	22
Social scientists .....	50	<	(nc)
Market research analysts .....	50	<	44
Engineers .....	4,190	0.5	(nc)
Civil .....	1,430	0.2	11
Electrical/electronics .....	340	<	(nc)
Electrical .....	340	<	45
Industrial .....	140	<	16
Mechanical .....	1,150	0.2	28
Sales .....	650	0.1	20
Other engineers .....	480	0.1	(nc)
Environmental .....	170	<	20
Safety .....	310	<	9

See explanatory information and SOURCE at end of table.

Table 5. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 07 and 10-17 (agricultural services, mining, and construction),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Misc. special trade contractors (SIC 1790) -- continued:			
Technicians .....	3,140	0.4	(nc)
Computer, numerical tool, and process control programmers .....	140	<	(nc)
Computer programmers .....	140	<	19
Drafters .....	1,530	0.2	(nc)
Architectural and civil drafters .....	1,470	0.2	10
Mechanical drafters .....	60	<	21
Engineering technicians .....	930	0.1	(nc)
Civil engineering technicians .....	320	<	29
Electrical/electronics engineering technicians .....	260	<	40
Environmental engineering technicians .....	280	<	27
Industrial engineering technicians .....	70	<	22
Physical and life science technicians .....	60	<	(nc)
Environmental science and protection technicians, including health .....	60	<	36
Surveying, cartographic, photogrammetric, and mapping technicians .....	480	0.1	(nc)
Surveying and mapping technicians .....	100	<	21
Surveyors .....	380	0.1	10

<sup>1</sup> SET intensity = the ratio of SET employment (including SET managers) in a given SIC to total employment in that SIC, expressed in percentage terms.

<sup>2</sup> Relative standard error of the estimate of filled positions, expressed as a percentage.

KEY:       nc       = Not computed  
          <       = The estimated actual value is less than 0.05 for percentages when used to characterize SET intensity.  
          n.e.c.   = Not elsewhere classified.  
          SIC     = Standard Industrial Classification. See Technical Notes for explanation.

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

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

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
<b>Meat products (SIC 2010)</b>			
Scientific and technical personnel.....	3,460	0.7	(nc)
Managers of scientific and technical personnel .....	540	0.1	(nc)
Computer and information systems managers .....	270	0.1	9
Engineering managers .....	230	<	5
Natural sciences managers .....	40	<	11
Scientists .....	520	0.1	(nc)
Computer scientists .....	110	<	(nc)
Network and computer systems administrators .....	110	<	9
Life scientists .....	220	<	(nc)
Agricultural scientists .....	220	<	8
Physical scientists .....	190	<	(nc)
Chemists .....	190	<	9
Engineers .....	650	0.1	(nc)
Industrial .....	360	0.1	4
Mechanical .....	170	<	7
Other engineers .....	120	<	(nc)
Safety .....	120	<	6
Technicians .....	1,750	0.3	(nc)
Computer, numerical tool, and process control programmers .....	430	0.1	(nc)
Computer programmers .....	430	0.1	50
Engineering technicians .....	220	<	(nc)
Electrical/electronics engineering technicians .....	40	<	25
Mechanical engineering technicians .....	180	<	48
Physical and life science technicians .....	1,100	0.2	(nc)
Agricultural and food science technicians .....	730	0.1	12
Biological technicians .....	190	<	8
Chemical technicians, except health .....	180	<	14
<b>Dairy products (SIC 2020)</b>			
Scientific and technical personnel.....	4,320	3.0	(nc)
Managers of scientific and technical personnel .....	570	0.4	(nc)
Computer and information systems managers .....	240	0.2	7
Engineering managers .....	260	0.2	9
Natural sciences managers .....	70	0.1	18
Scientists .....	1,070	0.7	(nc)
Computer scientists .....	320	0.2	(nc)
Computer systems analysts .....	180	0.1	13
Network and computer systems administrators .....	110	0.1	23
Network systems/data communications analysts .....	30	<	32
Life scientists .....	480	0.3	(nc)
Agricultural scientists .....	480	0.3	11

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Dairy products (SIC 2020) -- continued:			
Physical scientists .....	200	0.1	(nc)
Chemists .....	200	0.1	11
Social scientists .....	70	0.1	(nc)
Market research analysts .....	70	0.1	25
Engineers .....	580	0.4	(nc)
Industrial .....	300	0.2	10
Mechanical .....	160	0.1	12
Other engineers .....	120	0.1	(nc)
Chemical .....	40	<	31
Safety .....	80	0.1	13
Technicians .....	2,100	1.5	(nc)
Computer, numerical tool, and process control programmers .....	230	0.2	(nc)
Computer programmers .....	230	0.2	11
Engineering technicians .....	230	0.2	(nc)
Industrial engineering technicians .....	130	0.1	15
Mechanical engineering technicians .....	100	0.1	19
Physical and life science technicians .....	1,640	1.1	(nc)
Agricultural and food science technicians .....	1,040	0.7	7
Biological technicians .....	320	0.2	11
Chemical technicians, except health .....	280	0.2	12
Preserved fruits & vegetables (SIC 2030)			
Scientific and technical personnel.....	5,720	2.7	(nc)
Managers of scientific and technical personnel .....	810	0.4	(nc)
Computer and information systems managers .....	370	0.2	8
Engineering managers .....	310	0.2	7
Natural sciences managers .....	130	0.1	17
Scientists .....	2,020	1.0	(nc)
Computer scientists .....	830	0.4	(nc)
Computer software, systems .....	200	0.1	26
Computer systems analysts .....	380	0.2	8
Network and computer systems administrators .....	200	0.1	7
Network systems/data communications analysts .....	50	<	13
Life scientists .....	980	0.5	(nc)
Agricultural scientists .....	910	0.4	17
Biochemists and biophysicists .....	30	<	17
Microbiologists .....	40	<	12
Social scientists .....	210	0.1	(nc)
Market research analysts .....	210	0.1	8

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Preserved fruits & vegetables (SIC 2030) -- continued:			
Engineers .....	990	0.5	(nc)
Electrical/electronics .....	30	<	(nc)
Electrical .....	30	<	37
Industrial .....	580	0.3	13
Mechanical .....	150	0.1	14
Other engineers .....	230	0.1	(nc)
Agricultural .....	80	<	27
Chemical .....	30	<	25
Metallurgical/metallurgists .....	30	<	41
Safety .....	90	<	9
Technicians .....	1,900	0.9	(nc)
Computer, numerical tool, and process control programmers .....	270	0.1	(nc)
Computer programmers .....	270	0.1	11
Engineering technicians .....	420	0.2	(nc)
Electrical/electronics engineering technicians .....	50	<	22
Industrial engineering technicians .....	320	0.2	28
Mechanical engineering technicians .....	50	<	30
Physical and life science technicians .....	1,210	0.6	(nc)
Agricultural and food science technicians .....	780	0.4	12
Biological technicians .....	240	0.1	17
Chemical technicians, except health .....	150	0.1	14
Environmental science and protection technicians, including health .....	40	<	24
Grain mill products (SIC 2040)			
Scientific and technical personnel.....	4,860	4.0	(nc)
Managers of scientific and technical personnel .....	620	0.5	(nc)
Computer and information systems managers .....	180	0.2	9
Engineering managers .....	320	0.3	13
Natural sciences managers .....	120	0.1	16
Scientists .....	1,700	1.4	(nc)
Computer scientists .....	490	0.4	(nc)
Computer software, applications .....	50	<	24
Computer systems analysts .....	170	0.1	11
Network and computer systems administrators .....	190	0.2	13
Network systems/data communications analysts .....	80	0.1	31
Life scientists .....	460	0.4	(nc)
Agricultural scientists .....	390	0.3	12
Biochemists and biophysicists .....	70	0.1	22
Physical scientists .....	630	0.5	(nc)
Chemists .....	630	0.5	19
Social scientists .....	120	0.1	(nc)
Market research analysts .....	120	0.1	12

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Grain mill products (SIC 2040) -- continued:			
Engineers .....	1,090	0.9	(nc)
Industrial .....	600	0.5	18
Mechanical .....	210	0.2	15
Other engineers .....	280	0.2	(nc)
Chemical .....	190	0.2	25
Safety .....	90	0.1	37
Technicians .....	1,450	1.2	(nc)
Computer, numerical tool, and process control programmers .....	160	0.1	(nc)
Computer programmers .....	160	0.1	14
Engineering technicians .....	200	0.2	(nc)
Industrial engineering technicians .....	70	0.1	8
Mechanical engineering technicians .....	130	0.1	10
Physical and life science technicians .....	1,090	0.9	(nc)
Agricultural and food science technicians .....	660	0.5	12
Biological technicians .....	80	0.1	15
Chemical technicians, except health .....	350	0.3	11
Bakery products (SIC 2050)			
Scientific and technical personnel .....	1,610	0.8	(nc)
Managers of scientific and technical personnel .....	400	0.2	(nc)
Computer and information systems managers .....	150	0.1	6
Engineering managers .....	250	0.1	8
Scientists .....	280	0.1	(nc)
Computer scientists .....	130	0.1	(nc)
Computer systems analysts .....	80	<	14
Network and computer systems administrators .....	50	<	20
Life scientists .....	100	0.1	(nc)
Agricultural scientists .....	100	0.1	15
Social scientists .....	50	<	(nc)
Market research analysts .....	50	<	16
Engineers .....	580	0.3	(nc)
Industrial .....	340	0.2	13
Mechanical .....	200	0.1	18
Other engineers .....	40	<	(nc)
Safety .....	40	<	9
Technicians .....	350	0.2	(nc)
Computer, numerical tool, and process control programmers .....	140	0.1	(nc)
Computer programmers .....	140	0.1	14
Engineering technicians .....	130	0.1	(nc)
Electrical/electronics engineering technicians .....	30	<	6
Industrial engineering technicians .....	100	0.1	15
Physical and life science technicians .....	80	<	(nc)
Agricultural and food science technicians .....	80	<	14

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Sugar and confectionery products (SIC 2060)			
Scientific and technical personnel.....	2,550	2.7	(nc)
Managers of scientific and technical personnel .....	350	0.4	(nc)
Computer and information systems managers .....	130	0.1	11
Engineering managers .....	170	0.2	13
Natural sciences managers .....	50	0.1	13
Scientists .....	700	0.7	(nc)
Computer scientists .....	220	0.2	(nc)
Computer systems analysts .....	110	0.1	16
Network and computer systems administrators .....	110	0.1	12
Life scientists .....	240	0.3	(nc)
Agricultural scientists .....	240	0.3	14
Physical scientists .....	200	0.2	(nc)
Chemists .....	200	0.2	13
Social scientists .....	40	<	(nc)
Market research analysts .....	40	<	19
Engineers .....	400	0.4	(nc)
Industrial .....	190	0.2	10
Mechanical .....	170	0.2	19
Other engineers .....	40	<	(nc)
Agricultural .....	40	<	26
Technicians .....	1,100	1.1	(nc)
Computer, numerical tool, and process control programmers .....	120	0.1	(nc)
Computer programmers .....	120	0.1	18
Engineering technicians .....	140	0.1	(nc)
Electrical/electronics engineering technicians .....	50	0.1	37
Industrial engineering technicians .....	90	0.1	14
Physical and life science technicians .....	840	0.9	(nc)
Agricultural and food science technicians .....	490	0.5	21
Chemical technicians, except health .....	350	0.4	24
Fats and oils (SIC 2070)			
Scientific and technical personnel.....	970	3.5	(nc)
Managers of scientific and technical personnel .....	100	0.4	(nc)
Computer and information systems managers .....	50	0.2	14
Engineering managers .....	50	0.2	8
Scientists .....	360	1.3	(nc)
Computer scientists .....	50	0.2	(nc)
Computer systems analysts .....	50	0.2	27
Life scientists .....	70	0.3	(nc)
Agricultural scientists .....	70	0.3	9
Physical scientists .....	240	0.9	(nc)
Chemists .....	240	0.9	19

See explanatory information and SOURCE at end of table.



Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Fats and oils (SIC 2070) -- continued:			
Engineers .....	240	0.9	(nc)
Industrial .....	120	0.4	26
Mechanical .....	40	0.1	15
Other engineers .....	80	0.3	(nc)
Chemical .....	50	0.2	17
Safety .....	30	0.1	16
Technicians .....	270	1.0	(nc)
Computer, numerical tool, and process control programmers .....	40	0.1	(nc)
Computer programmers .....	40	0.1	13
Physical and life science technicians .....	230	0.8	(nc)
Agricultural and food science technicians .....	150	0.5	9
Chemical technicians, except health .....	80	0.3	15
Beverages (SIC 2080)			
Scientific and technical personnel.....	9,890	5.3	(nc)
Managers of scientific and technical personnel .....	1,760	0.9	(nc)
Computer and information systems managers .....	920	0.5	24
Engineering managers .....	620	0.3	25
Natural sciences managers .....	220	0.1	25
Scientists .....	3,750	2.0	(nc)
Computer scientists .....	2,580	1.4	(nc)
Computer systems analysts .....	2,440	1.3	29
Network and computer systems administrators .....	140	0.1	10
Life scientists .....	270	0.1	(nc)
Agricultural scientists .....	270	0.1	12
Physical scientists .....	750	0.4	(nc)
Chemists .....	750	0.4	9
Social scientists .....	150	0.1	(nc)
Market research analysts .....	150	0.1	28
Engineers .....	2,510	1.4	(nc)
Industrial .....	1,950	1.1	28
Mechanical .....	310	0.2	19
Other engineers .....	250	0.1	(nc)
Agricultural .....	50	<	25
Chemical .....	150	0.1	29
Safety .....	50	<	12

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Beverages (SIC 2080) -- continued:			
Technicians .....	1,870	1.0	(nc)
Computer, numerical tool, and process control programmers .....	180	0.1	(nc)
Computer programmers .....	180	0.1	12
Engineering technicians .....	690	0.4	(nc)
Industrial engineering technicians .....	340	0.2	16
Mechanical engineering technicians .....	350	0.2	36
Physical and life science technicians .....	1,000	0.5	(nc)
Agricultural and food science technicians .....	460	0.3	12
Biological technicians .....	80	<	16
Chemical technicians, except health .....	460	0.3	13
Misc. food and kindred products (SIC 2090)			
Scientific and technical personnel.....	2,420	1.3	(nc)
Managers of scientific and technical personnel .....	410	0.2	(nc)
Computer and information systems managers .....	190	0.1	8
Engineering managers .....	140	0.1	8
Natural sciences managers .....	80	<	15
Scientists .....	830	0.5	(nc)
Computer scientists .....	270	0.2	(nc)
Computer systems analysts .....	140	0.1	18
Network and computer systems administrators .....	130	0.1	10
Life scientists .....	290	0.2	(nc)
Agricultural scientists .....	290	0.2	15
Physical scientists .....	210	0.1	(nc)
Chemists .....	210	0.1	16
Social scientists .....	60	<	(nc)
Market research analysts .....	60	<	44
Engineers .....	290	0.2	(nc)
Industrial .....	140	0.1	8
Mechanical .....	110	0.1	10
Other engineers .....	40	<	(nc)
Safety .....	40	<	12
Technicians .....	890	0.5	(nc)
Computer, numerical tool, and process control programmers .....	130	0.1	(nc)
Computer programmers .....	130	0.1	9
Engineering technicians .....	80	<	(nc)
Industrial engineering technicians .....	80	<	26
Physical and life science technicians .....	680	0.4	(nc)
Agricultural and food science technicians .....	400	0.2	21
Biological technicians .....	100	0.1	23
Chemical technicians, except health .....	180	0.1	6

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
<b>Cigarettes (SIC 2110)</b>			
Scientific and technical personnel.....	870	4.3	(nc)
Scientists .....	510	2.5	(nc)
Computer scientists .....	510	2.5	(nc)
Computer systems analysts .....	390	1.9	38
Network and computer systems administrators .....	120	0.6	42
Technicians .....	360	1.8	(nc)
Computer, numerical tool, and process control programmers .....	330	1.6	(nc)
Computer programmers .....	330	1.6	29
Physical and life science technicians .....	30	0.2	(nc)
Agricultural and food science technicians .....	30	0.2	45
<b>Chewing and smoking tobacco (SIC 2130)</b>			
Scientific and technical personnel.....	30	0.9	(nc)
Technicians .....	30	0.9	(nc)
Physical and life science technicians .....	30	0.9	(nc)
Chemical technicians, except health .....	30	0.9	26
<b>Broadwoven fabric mills, cotton (SIC 2210)</b>			
Scientific and technical personnel.....	380	0.8	(nc)
Managers of scientific and technical personnel .....	90	0.2	(nc)
Computer and information systems managers .....	50	0.1	9
Engineering managers .....	40	0.1	13
Engineers .....	160	0.3	(nc)
Industrial .....	160	0.3	9
Technicians .....	130	0.3	(nc)
Computer, numerical tool, and process control programmers .....	60	0.1	(nc)
Computer programmers .....	60	0.1	8
Engineering technicians .....	70	0.2	(nc)
Industrial engineering technicians .....	70	0.2	10
<b>Broadwoven fabric mills, manmade (SIC 2220)</b>			
Scientific and technical personnel.....	720	1.6	(nc)
Managers of scientific and technical personnel .....	150	0.3	(nc)
Engineering managers .....	150	0.3	15
Scientists .....	60	0.1	(nc)
Computer scientists .....	30	0.1	(nc)
Computer systems analysts .....	30	0.1	2
Physical scientists .....	30	0.1	(nc)
Chemists .....	30	0.1	5

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Broadwoven fabric mills, manmade (SIC 2220) -- continued:			
Engineers .....	370	0.8	(nc)
Industrial .....	230	0.5	6
Mechanical .....	50	0.1	13
Sales .....	50	0.1	10
Other engineers .....	40	0.1	(nc)
Metallurgical/metallurgists .....	40	0.1	9
Technicians .....	140	0.3	(nc)
Computer, numerical tool, and process control programmers .....	50	0.1	(nc)
Computer programmers .....	50	0.1	17
Engineering technicians .....	90	0.2	(nc)
Industrial engineering technicians .....	90	0.2	7
Narrow fabric mills (SIC 2240)			
Scientific and technical personnel.....	40	0.2	(nc)
Engineers .....	40	0.2	(nc)
Industrial .....	40	0.2	18
Knitting mills (SIC 2250)			
Scientific and technical personnel.....	1,170	1.2	(nc)
Managers of scientific and technical personnel .....	350	0.4	(nc)
Computer and information systems managers .....	240	0.2	16
Engineering managers .....	110	0.1	12
Scientists .....	120	0.1	(nc)
Computer scientists .....	80	0.1	(nc)
Network and computer systems administrators .....	80	0.1	18
Physical scientists .....	40	<	(nc)
Chemists .....	40	<	12
Engineers .....	240	0.2	(nc)
Industrial .....	210	0.2	5
Mechanical .....	30	<	15
Technicians .....	460	0.5	(nc)
Computer, numerical tool, and process control programmers .....	210	0.2	(nc)
Computer programmers .....	210	0.2	17
Engineering technicians .....	120	0.1	(nc)
Industrial engineering technicians .....	120	0.1	4
Physical and life science technicians .....	130	0.1	(nc)
Chemical technicians, except health .....	130	0.1	16
Textile finishing, except wool (SIC 2260)			
Scientific and technical personnel.....	680	1.5	(nc)
Managers of scientific and technical personnel .....	120	0.3	(nc)
Computer and information systems managers .....	60	0.1	14
Engineering managers .....	60	0.1	8

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Textile finishing, except wool (SIC 2260) -- continued:			
Scientists .....	140	0.3	(nc)
Computer scientists .....	40	0.1	(nc)
Network and computer systems administrators .....	40	0.1	19
Physical scientists .....	100	0.2	(nc)
Chemists .....	100	0.2	10
Engineers .....	130	0.3	(nc)
Industrial .....	100	0.2	10
Mechanical .....	30	0.1	23
Technicians .....	290	0.6	(nc)
Computer, numerical tool, and process control programmers .....	50	0.1	(nc)
Computer programmers .....	50	0.1	26
Physical and life science technicians .....	240	0.5	(nc)
Chemical technicians, except health .....	240	0.5	11
Carpets and rugs (SIC 2270)			
Scientific and technical personnel.....	790	1.3	(nc)
Managers of scientific and technical personnel .....	160	0.3	(nc)
Computer and information systems managers .....	90	0.2	29
Engineering managers .....	70	0.1	10
Scientists .....	50	0.1	(nc)
Computer scientists .....	50	0.1	(nc)
Network and computer systems administrators .....	50	0.1	28
Engineers .....	230	0.4	(nc)
Industrial .....	160	0.3	8
Mechanical .....	70	0.1	24
Technicians .....	350	0.6	(nc)
Computer, numerical tool, and process control programmers .....	230	0.4	(nc)
Computer programmers .....	230	0.4	29
Engineering technicians .....	60	0.1	(nc)
Industrial engineering technicians .....	60	0.1	18
Physical and life science technicians .....	60	0.1	(nc)
Chemical technicians, except health .....	60	0.1	27
Yarn and thread mills (SIC 2280)			
Scientific and technical personnel.....	570	0.9	(nc)
Managers of scientific and technical personnel .....	120	0.2	(nc)
Computer and information systems managers .....	50	0.1	12
Engineering managers .....	70	0.1	8
Engineers .....	210	0.3	(nc)
Industrial .....	210	0.3	7

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Technicians .....	240	0.4	(nc)
Computer, numerical tool, and process control programmers .....	90	0.1	(nc)
Computer programmers .....	90	0.1	28
Engineering technicians .....	100	0.2	(nc)
Industrial engineering technicians .....	100	0.2	6
Physical and life science technicians .....	50	0.1	(nc)
Chemical technicians, except health .....	50	0.1	15
Miscellaneous textile goods (SIC 2290)			
Scientific and technical personnel.....	1,360	2.8	(nc)
Managers of scientific and technical personnel .....	230	0.5	(nc)
Computer and information systems managers .....	90	0.2	10
Engineering managers .....	140	0.3	10
Scientists .....	160	0.3	(nc)
Computer scientists .....	50	0.1	(nc)
Network and computer systems administrators .....	50	0.1	8
Physical scientists .....	110	0.2	(nc)
Chemists .....	110	0.2	9
Engineers .....	600	1.2	(nc)
Electrical/electronics .....	30	0.1	(nc)
Electrical .....	30	0.1	11
Industrial .....	290	0.6	7
Mechanical .....	200	0.4	8
Other engineers .....	80	0.2	(nc)
Chemical .....	50	0.1	6
Safety .....	30	0.1	11
Technicians .....	370	0.8	(nc)
Computer, numerical tool, and process control programmers .....	50	0.1	(nc)
Computer programmers .....	50	0.1	10
Engineering technicians .....	120	0.2	(nc)
Industrial engineering technicians .....	90	0.2	11
Mechanical engineering technicians .....	30	0.1	9
Physical and life science technicians .....	200	0.4	(nc)
Chemical technicians, except health .....	200	0.4	10
Men's & boys' furnishings (SIC 2320)			
Scientific and technical personnel.....	990	1.0	(nc)
Managers of scientific and technical personnel .....	250	0.2	(nc)
Computer and information systems managers .....	210	0.2	15
Engineering managers .....	40	<	11
Scientists .....	340	0.3	(nc)
Computer scientists .....	100	0.1	(nc)
Network and computer systems administrators .....	100	0.1	40
Social scientists .....	240	0.2	(nc)
Market research analysts .....	240	0.2	28

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Men's & boys' furnishings (SIC 2320) -- continued:			
Engineers .....	190	0.2	(nc)
Industrial .....	190	0.2	8
Technicians .....	210	0.2	(nc)
Computer, numerical tool, and process control programmers .....	170	0.2	(nc)
Computer programmers .....	170	0.2	15
Engineering technicians .....	40	<	(nc)
Industrial engineering technicians .....	40	<	19
Women's and misses' outerwear (SIC 2330)			
Scientific and technical personnel.....	570	0.4	(nc)
Managers of scientific and technical personnel .....	100	0.1	(nc)
Computer and information systems managers .....	100	0.1	15
Scientists .....	220	0.2	(nc)
Computer scientists .....	220	0.2	(nc)
Computer systems analysts .....	120	0.1	43
Network and computer systems administrators .....	100	0.1	20
Engineers .....	80	0.1	(nc)
Industrial .....	80	0.1	21
Technicians .....	170	0.1	(nc)
Computer, numerical tool, and process control programmers .....	170	0.1	(nc)
Computer programmers .....	170	0.1	19
Women's and children's undergarments (SIC 2340)			
Scientific and technical personnel.....	110	0.7	(nc)
Managers of scientific and technical personnel .....	30	0.2	(nc)
Computer and information systems managers .....	30	0.2	10
Engineers .....	40	0.3	(nc)
Industrial .....	40	0.3	12
Technicians .....	40	0.3	(nc)
Computer, numerical tool, and process control programmers .....	40	0.3	(nc)
Computer programmers .....	40	0.3	15
Girls' and children's outerwear (SIC 2360)			
Scientific and technical personnel.....	50	0.5	(nc)
Technicians .....	50	0.5	(nc)
Computer, numerical tool, and process control programmers .....	50	0.5	(nc)
Computer programmers .....	50	0.5	36

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Miscellaneous apparel and accessories (SIC 2380)			
Scientific and technical personnel.....	170	0.7	(nc)
Managers of scientific and technical personnel .....	60	0.2	(nc)
Computer and information systems managers .....	60	0.2	11
Engineers .....	50	0.2	(nc)
Industrial .....	50	0.2	21
Technicians .....	60	0.2	(nc)
Computer, numerical tool, and process control programmers .....	60	0.2	(nc)
Computer programmers .....	60	0.2	14
Misc. fabricated textile products (SIC 2390)			
Scientific and technical personnel.....	1,570	0.8	(nc)
Managers of scientific and technical personnel .....	370	0.2	(nc)
Computer and information systems managers .....	180	0.1	6
Engineering managers .....	190	0.1	6
Scientists .....	100	0.1	(nc)
Computer scientists .....	100	0.1	(nc)
Network and computer systems administrators .....	100	0.1	8
Engineers .....	600	0.3	(nc)
Industrial .....	290	0.2	12
Mechanical .....	270	0.1	6
Sales .....	40	<	19
Technicians .....	500	0.3	(nc)
Computer, numerical tool, and process control programmers .....	200	0.1	(nc)
Computer programmers .....	200	0.1	6
Drafters .....	30	<	(nc)
Mechanical drafters .....	30	<	12
Engineering technicians .....	270	0.1	(nc)
Industrial engineering technicians .....	170	0.1	10
Mechanical engineering technicians .....	100	0.1	18
Logging (SIC 2410)			
Scientific and technical personnel.....	880	1.2	(nc)
Scientists .....	630	0.9	(nc)
Life scientists .....	630	0.9	(nc)
Foresters .....	630	0.9	13
Technicians .....	250	0.3	(nc)
Physical and life science technicians .....	250	0.3	(nc)
Forest and conservation technicians .....	250	0.3	28

See explanatory information and SOURCE at end of table.



Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
<b>Sawmills and planing mills (SIC 2420)</b>			
Scientific and technical personnel.....	1,910	1.2	(nc)
Managers of scientific and technical personnel .....	210	0.1	(nc)
Computer and information systems managers .....	110	0.1	8
Engineering managers .....	100	0.1	10
Scientists .....	1,170	0.7	(nc)
Computer scientists .....	140	0.1	(nc)
Network and computer systems administrators .....	140	0.1	7
Life scientists .....	1,030	0.6	(nc)
Foresters .....	1,030	0.6	8
Engineers .....	160	0.1	(nc)
Industrial .....	110	0.1	9
Mechanical .....	50	<	14
Technicians .....	370	0.2	(nc)
Computer, numerical tool, and process control programmers .....	110	0.1	(nc)
Computer programmers .....	110	0.1	21
Engineering technicians .....	80	0.1	(nc)
Electrical/electronics engineering technicians .....	50	<	33
Industrial engineering technicians .....	30	<	17
Physical and life science technicians .....	180	0.1	(nc)
Forest and conservation technicians .....	180	0.1	12
<b>Millwork, plywood &amp; structural members (SIC 2430)</b>			
Scientific and technical personnel.....	5,170	1.6	(nc)
Managers of scientific and technical personnel .....	790	0.2	(nc)
Computer and information systems managers .....	370	0.1	10
Engineering managers .....	420	0.1	8
Scientists .....	570	0.2	(nc)
Computer scientists .....	310	0.1	(nc)
Network and computer systems administrators .....	310	0.1	25
Life scientists .....	160	0.1	(nc)
Foresters .....	160	0.1	15
Social scientists .....	100	<	(nc)
Market research analysts .....	100	<	15
Engineers .....	1,480	0.5	(nc)
Civil .....	130	<	14
Industrial .....	880	0.3	13
Mechanical .....	220	0.1	8
Sales .....	220	0.1	20
Other engineers .....	30	<	(nc)
Metallurgical/metallurgists .....	30	<	24

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Millwork, plywood & structural members (SIC 2430) -- continued:			
Technicians .....	2,330	0.7	(nc)
Computer, numerical tool, and process control programmers .....	450	0.1	(nc)
Computer programmers .....	340	0.1	25
Numerical tool and process control programmers .....	110	<	21
Drafters .....	1,000	0.3	(nc)
Architectural and civil drafters .....	330	0.1	12
Electrical and electronics drafters .....	190	0.1	16
Mechanical drafters .....	480	0.2	9
Engineering technicians .....	690	0.2	(nc)
Industrial engineering technicians .....	590	0.2	14
Mechanical engineering technicians .....	100	<	18
Physical and life science technicians .....	190	0.1	(nc)
Environmental science and protection technicians, including health .....	80	<	34
Forest and conservation technicians .....	110	<	22
Wood containers (SIC 2440)			
Scientific and technical personnel.....	30	0.1	(nc)
Scientists .....	30	0.1	(nc)
Life scientists .....	30	0.1	(nc)
Foresters .....	30	0.1	19
Wood buildings and mobile homes (SIC 2450)			
Scientific and technical personnel.....	1,190	1.5	(nc)
Managers of scientific and technical personnel .....	200	0.3	(nc)
Computer and information systems managers .....	40	0.1	14
Engineering managers .....	160	0.2	6
Scientists .....	30	<	(nc)
Computer scientists .....	30	<	(nc)
Network and computer systems administrators .....	30	<	12
Engineers .....	230	0.3	(nc)
Industrial .....	190	0.2	11
Mechanical .....	40	0.1	29
Technicians .....	730	0.9	(nc)
Drafters .....	550	0.7	(nc)
Architectural and civil drafters .....	230	0.3	7
Electrical and electronics drafters .....	170	0.2	13
Mechanical drafters .....	150	0.2	15
Engineering technicians .....	180	0.2	(nc)
Industrial engineering technicians .....	150	0.2	15
Mechanical engineering technicians .....	30	<	4

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Miscellaneous wood products (SIC 2490)			
Scientific and technical personnel.....	650	0.9	(nc)
Managers of scientific and technical personnel .....	110	0.2	(nc)
Computer and information systems managers .....	60	0.1	8
Engineering managers .....	50	0.1	13
Scientists .....	130	0.2	(nc)
Computer scientists .....	50	0.1	(nc)
Network and computer systems administrators .....	50	0.1	19
Life scientists .....	80	0.1	(nc)
Foresters .....	80	0.1	33
Engineers .....	140	0.2	(nc)
Industrial .....	80	0.1	13
Mechanical .....	60	0.1	19
Technicians .....	270	0.4	(nc)
Computer, numerical tool, and process control programmers .....	50	0.1	(nc)
Computer programmers .....	50	0.1	15
Engineering technicians .....	80	0.1	(nc)
Electrical/electronics engineering technicians .....	40	0.1	31
Industrial engineering technicians .....	40	0.1	28
Physical and life science technicians .....	140	0.2	(nc)
Environmental science and protection technicians, including health .....	140	0.2	48
Household furniture (SIC 2510)			
Scientific and technical personnel.....	2,140	0.9	(nc)
Managers of scientific and technical personnel .....	570	0.2	(nc)
Computer and information systems managers .....	320	0.1	10
Engineering managers .....	250	0.1	6
Scientists .....	150	0.1	(nc)
Computer scientists .....	150	0.1	(nc)
Network and computer systems administrators .....	150	0.1	22
Engineers .....	570	0.2	(nc)
Industrial .....	410	0.2	6
Mechanical .....	160	0.1	10
Technicians .....	850	0.4	(nc)
Computer, numerical tool, and process control programmers .....	450	0.2	(nc)
Computer programmers .....	280	0.1	12
Numerical tool and process control programmers .....	170	0.1	30
Drafters .....	180	0.1	(nc)
Electrical and electronics drafters .....	40	<	21
Mechanical drafters .....	140	0.1	15
Engineering technicians .....	220	0.1	(nc)
Industrial engineering technicians .....	170	0.1	6
Mechanical engineering technicians .....	50	<	12

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Office furniture (SIC 2520)			
Scientific and technical personnel.....	2,800	4.1	(nc)
Managers of scientific and technical personnel .....	430	0.6	(nc)
Computer and information systems managers .....	190	0.3	7
Engineering managers .....	240	0.4	7
Scientists .....	160	0.2	(nc)
Computer scientists .....	160	0.2	(nc)
Network and computer systems administrators .....	160	0.2	4
Engineers .....	1,040	1.5	(nc)
Industrial .....	700	1.0	3
Mechanical .....	340	0.5	18
Technicians .....	1,170	1.7	(nc)
Computer, numerical tool, and process control programmers .....	510	0.7	(nc)
Computer programmers .....	360	0.5	8
Numerical tool and process control programmers .....	150	0.2	4
Drafters .....	180	0.3	(nc)
Electrical and electronics drafters .....	40	0.1	44
Mechanical drafters .....	140	0.2	5
Engineering technicians .....	480	0.7	(nc)
Industrial engineering technicians .....	400	0.6	3
Mechanical engineering technicians .....	80	0.1	13
Public building & related furniture (SIC 2530)			
Scientific and technical personnel.....	2,400	4.8	(nc)
Managers of scientific and technical personnel .....	440	0.9	(nc)
Computer and information systems managers .....	100	0.2	8
Engineering managers .....	340	0.7	6
Scientists .....	100	0.2	(nc)
Computer scientists .....	100	0.2	(nc)
Network and computer systems administrators .....	100	0.2	9
Engineers .....	1,300	2.6	(nc)
Industrial .....	1,050	2.1	4
Mechanical .....	250	0.5	10
Technicians .....	560	1.1	(nc)
Computer, numerical tool, and process control programmers .....	130	0.3	(nc)
Computer programmers .....	100	0.2	13
Numerical tool and process control programmers .....	30	0.1	22
Drafters .....	150	0.3	(nc)
Electrical and electronics drafters .....	40	0.1	11
Mechanical drafters .....	110	0.2	8
Engineering technicians .....	280	0.6	(nc)
Industrial engineering technicians .....	190	0.4	16
Mechanical engineering technicians .....	90	0.2	29

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Partitions and fixtures (SIC 2540)			
Scientific and technical personnel.....	1,830	2.2	(nc)
Managers of scientific and technical personnel .....	260	0.3	(nc)
Computer and information systems managers .....	90	0.1	8
Engineering managers .....	170	0.2	9
Scientists .....	70	0.1	(nc)
Computer scientists .....	70	0.1	(nc)
Network and computer systems administrators .....	70	0.1	7
Engineers .....	470	0.6	(nc)
Industrial .....	310	0.4	7
Mechanical .....	160	0.2	10
Technicians .....	1,030	1.2	(nc)
Computer, numerical tool, and process control programmers .....	260	0.3	(nc)
Computer programmers .....	110	0.1	10
Numerical tool and process control programmers .....	150	0.2	15
Drafters .....	520	0.6	(nc)
Architectural and civil drafters .....	80	0.1	18
Electrical and electronics drafters .....	70	0.1	19
Mechanical drafters .....	370	0.4	12
Engineering technicians .....	250	0.3	(nc)
Industrial engineering technicians .....	250	0.3	8
Miscellaneous furniture and fixtures (SIC 2590)			
Scientific and technical personnel.....	590	1.5	(nc)
Managers of scientific and technical personnel .....	120	0.3	(nc)
Computer and information systems managers .....	60	0.2	8
Engineering managers .....	60	0.2	8
Scientists .....	50	0.1	(nc)
Computer scientists .....	50	0.1	(nc)
Network and computer systems administrators .....	50	0.1	9
Engineers .....	240	0.6	(nc)
Industrial .....	110	0.3	14
Mechanical .....	70	0.2	12
Sales .....	60	0.2	28
Technicians .....	180	0.5	(nc)
Computer, numerical tool, and process control programmers .....	60	0.2	(nc)
Computer programmers .....	60	0.2	17
Drafters .....	90	0.2	(nc)
Mechanical drafters .....	90	0.2	14
Engineering technicians .....	30	0.1	(nc)
Industrial engineering technicians .....	30	0.1	18

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
<b>Pulp mills (SIC 2610)</b>			
Scientific and technical personnel.....	440	4.1	(nc)
Managers of scientific and technical personnel .....	30	0.3	(nc)
Engineering managers .....	30	0.3	9
Scientists .....	140	1.3	(nc)
Computer scientists .....	50	0.5	(nc)
Computer systems analysts .....	50	0.5	20
Life scientists .....	90	0.8	(nc)
Foresters .....	90	0.8	15
Engineers .....	270	2.5	(nc)
Electrical/electronics .....	30	0.3	(nc)
Electrical .....	30	0.3	34
Industrial .....	70	0.6	20
Mechanical .....	40	0.4	9
Other engineers .....	130	1.2	(nc)
Chemical .....	60	0.6	10
Environmental .....	40	0.4	12
Metallurgical/metallurgists .....	30	0.3	36
<b>Paper mills (SIC 2620)</b>			
Scientific and technical personnel.....	6,610	5.3	(nc)
Managers of scientific and technical personnel .....	700	0.6	(nc)
Computer and information systems managers .....	250	0.2	13
Engineering managers .....	380	0.3	7
Natural sciences managers .....	70	0.1	44
Scientists .....	1,320	1.1	(nc)
Computer scientists .....	770	0.6	(nc)
Computer software, applications .....	190	0.2	14
Computer software, systems .....	70	0.1	17
Computer systems analysts .....	350	0.3	13
Network and computer systems administrators .....	160	0.1	11
Life scientists .....	200	0.2	(nc)
Foresters .....	200	0.2	21
Physical scientists .....	350	0.3	(nc)
Chemists .....	310	0.3	22
Environmental scientists and specialists, including health .....	40	<	16

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001

[Filled positions]

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Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Paper mills (SIC 2620) -- continued:			
Engineers .....	3,310	2.7	(nc)
Civil .....	100	0.1	18
Electrical/electronics .....	310	0.3	(nc)
Electrical .....	310	0.3	9
Industrial .....	1,020	0.8	8
Mechanical .....	890	0.7	9
Sales .....	40	<	4
Other engineers .....	950	0.8	(nc)
Chemical .....	520	0.4	10
Environmental .....	240	0.2	6
Metallurgical/metallurgists .....	70	0.1	7
Safety .....	120	0.1	6
Technicians .....	1,280	1.0	(nc)
Drafters .....	50	<	(nc)
Mechanical drafters .....	50	<	19
Engineering technicians .....	660	0.5	(nc)
Environmental engineering technicians .....	140	0.1	14
Industrial engineering technicians .....	520	0.4	12
Physical and life science technicians .....	570	0.5	(nc)
Chemical technicians, except health .....	450	0.4	10
Environmental science and protection technicians, including health .....	70	0.1	7
Forest and conservation technicians .....	50	<	7
Paperboard mills (SIC 2630)			
Scientific and technical personnel .....	1,780	4.3	(nc)
Managers of scientific and technical personnel .....	140	0.3	(nc)
Engineering managers .....	140	0.3	9
Scientists .....	170	0.4	(nc)
Computer scientists .....	60	0.1	(nc)
Computer systems analysts .....	60	0.1	17
Physical scientists .....	110	0.3	(nc)
Chemists .....	110	0.3	29
Engineers .....	1,080	2.6	(nc)
Electrical/electronics .....	110	0.3	(nc)
Electrical .....	110	0.3	11
Industrial .....	260	0.6	7
Mechanical .....	310	0.8	9
Other engineers .....	400	1.0	(nc)
Chemical .....	170	0.4	14
Environmental .....	150	0.4	9
Safety .....	80	0.2	13

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Paperboard mills (SIC 2630) -- continued:			
Technicians .....	390	0.9	(nc)
Drafters .....	30	0.1	(nc)
Mechanical drafters .....	30	0.1	19
Engineering technicians .....	110	0.3	(nc)
Environmental engineering technicians .....	40	0.1	36
Industrial engineering technicians .....	70	0.2	15
Physical and life science technicians .....	250	0.6	(nc)
Chemical technicians, except health .....	200	0.5	23
Environmental science and protection technicians, including health .....	50	0.1	25
Paperboard containers and boxes (SIC 2650)			
Scientific and technical personnel.....	1,720	0.8	(nc)
Managers of scientific and technical personnel .....	290	0.1	(nc)
Computer and information systems managers .....	150	0.1	6
Engineering managers .....	140	0.1	7
Scientists .....	190	0.1	(nc)
Computer scientists .....	190	0.1	(nc)
Computer systems analysts .....	60	<	12
Network and computer systems administrators .....	130	0.1	10
Engineers .....	630	0.3	(nc)
Industrial .....	260	0.1	8
Mechanical .....	120	0.1	12
Sales .....	80	<	13
Other engineers .....	170	0.1	(nc)
Metallurgical/metallurgists .....	100	0.1	12
Safety .....	70	<	8
Technicians .....	610	0.3	(nc)
Computer, numerical tool, and process control programmers .....	150	0.1	(nc)
Computer programmers .....	150	0.1	18
Drafters .....	250	0.1	(nc)
Mechanical drafters .....	250	0.1	9
Engineering technicians .....	210	0.1	(nc)
Electronical/electronics engineering technicians .....	50	<	29
Industrial engineering technicians .....	160	0.1	22
Misc. converted paper products (SIC 2670)			
Scientific and technical personnel.....	4,230	1.9	(nc)
Managers of scientific and technical personnel .....	1,030	0.5	(nc)
Computer and information systems managers .....	570	0.3	3
Engineering managers .....	460	0.2	5

See explanatory information and SOURCE at end of table.



Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Misc. converted paper products (SIC 2670) -- continued:			
Scientists .....	1,240	0.6	(nc)
Computer scientists .....	580	0.3	(nc)
Computer systems analysts .....	270	0.1	7
Network and computer systems administrators .....	310	0.1	7
Physical scientists .....	660	0.3	(nc)
Chemists .....	630	0.3	7
Materials scientists .....	30	<	22
Engineers .....	1,040	0.5	(nc)
Electrical/electronics .....	150	0.1	(nc)
Electrical .....	150	0.1	5
Mechanical .....	340	0.2	7
Sales .....	70	<	17
Other engineers .....	480	0.2	(nc)
Chemical .....	200	0.1	23
Environmental .....	60	<	8
Metallurgical/metallurgists .....	110	0.1	13
Safety .....	110	0.1	7
Technicians .....	920	0.4	(nc)
Computer, numerical tool, and process control programmers .....	290	0.1	(nc)
Computer programmers .....	290	0.1	7
Drafters .....	90	<	(nc)
Mechanical drafters .....	90	<	14
Engineering technicians .....	260	0.1	(nc)
Electrical/electronics engineering technicians .....	130	0.1	7
Mechanical engineering technicians .....	130	0.1	12
Physical and life science technicians .....	280	0.1	(nc)
Biological technicians .....	40	<	43
Chemical technicians, except health .....	240	0.1	13
Newspapers (SIC 2710)			
Scientific and technical personnel.....	7,880	1.9	(nc)
Managers of scientific and technical personnel .....	1,390	0.3	(nc)
Computer and information systems managers .....	1,350	0.3	6
Engineering managers .....	40	<	16
Scientists .....	4,620	1.1	(nc)
Computer scientists .....	3,750	0.9	(nc)
Computer software, applications .....	280	0.1	20
Computer software, systems .....	170	<	19
Computer systems analysts .....	1,260	0.3	9
Network and computer systems administrators .....	1,340	0.3	6
Network systems/data communications analysts .....	700	0.2	18

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Newspapers (SIC 2710) -- continued:			
Mathematical scientists .....	70	<	(nc)
Operations and systems researchers and analysts .....	30	<	24
Statisticians .....	40	<	24
Social scientists .....	800	0.2	(nc)
Market research analysts .....	660	0.2	13
Survey researchers .....	140	<	34
Engineers .....	110	<	(nc)
Industrial .....	40	<	14
Mechanical .....	70	<	26
Technicians .....	1,760	0.4	(nc)
Computer, numerical tool, and process control programmers .....	1,400	0.3	(nc)
Computer programmers .....	1,400	0.3	9
Engineering technicians .....	360	0.1	(nc)
Electrical/electronics engineering technicians .....	120	<	18
Electro-mechanical technicians .....	50	<	38
All other engineering technicians .....	190	0.1	(nc)
Audio and video equipment technicians .....	190	0.1	17
Periodicals (SIC 2720)			
Scientific and technical personnel.....	6,310	4.6	(nc)
Managers of scientific and technical personnel .....	710	0.5	(nc)
Computer and information systems managers .....	710	0.5	6
Scientists .....	3,920	2.8	(nc)
Computer scientists .....	2,850	2.1	(nc)
Computer software, applications .....	320	0.2	18
Computer software, systems .....	40	<	22
Computer systems analysts .....	1,260	0.9	14
Network and computer systems administrators .....	810	0.6	6
Network systems/data communications analysts .....	420	0.3	13
Social scientists .....	1,070	0.8	(nc)
Market research analysts .....	1,070	0.8	17
Engineers .....	100	0.1	(nc)
Industrial .....	100	0.1	32
Technicians .....	1,580	1.1	(nc)
Computer, numerical tool, and process control programmers .....	1,550	1.1	(nc)
Computer programmers .....	1,550	1.1	8
Engineering technicians .....	30	<	(nc)
All other engineering technicians .....	30	<	(nc)
Audio and video equipment technicians .....	30	<	35

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Books (SIC 2730)			
Scientific and technical personnel.....	4,700	4.0	(nc)
Managers of scientific and technical personnel .....	730	0.6	(nc)
Computer and information systems managers .....	700	0.6	5
Engineering managers .....	30	<	19
Scientists .....	2,640	2.2	(nc)
Computer scientists .....	1,710	1.4	(nc)
Computer software, systems .....	340	0.3	14
Computer systems analysts .....	590	0.5	11
Network and computer systems administrators .....	550	0.5	8
Network systems/data communications analysts .....	230	0.2	11
Mathematical scientists .....	30	<	(nc)
Operations and systems researchers and analysts .....	30	<	30
Social scientists .....	900	0.8	(nc)
Market research analysts .....	900	0.8	15
Engineers .....	140	0.1	(nc)
Industrial .....	140	0.1	20
Technicians .....	1,190	1.0	(nc)
Computer, numerical tool, and process control programmers .....	1,190	1.0	(nc)
Computer programmers .....	1,190	1.0	23
Miscellaneous publishing (SIC 2740)			
Scientific and technical personnel.....	4,830	5.7	(nc)
Managers of scientific and technical personnel .....	540	0.6	(nc)
Computer and information systems managers .....	480	0.6	11
Engineering managers .....	60	0.1	31
Scientists .....	2,830	3.4	(nc)
Computer scientists .....	2,260	2.7	(nc)
Computer software, applications .....	600	0.7	27
Computer software, systems .....	430	0.5	21
Computer systems analysts .....	400	0.5	13
Network and computer systems administrators .....	660	0.8	10
Network systems/data communications analysts .....	170	0.2	17
Mathematical scientists .....	30	<	(nc)
Statisticians .....	30	<	35
Social scientists .....	540	0.6	(nc)
Market research analysts .....	540	0.6	14
Engineers .....	100	0.1	(nc)
Electrical/electronics .....	100	0.1	(nc)
Electrical .....	60	0.1	42
Electronics .....	40	0.1	48

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Miscellaneous publishing (SIC 2740) -- continued:			
Technicians .....	1,360	1.6	(nc)
Computer, numerical tool, and process control programmers .....	1,040	1.2	(nc)
Computer programmers .....	1,040	1.2	8
Surveying, cartographic, photogrammetric, and mapping technicians .....	320	0.4	(nc)
Cartographers and photogrammetrists .....	200	0.2	16
Surveying and mapping technicians .....	120	0.1	34
Commercial printing (SIC 2750)			
Scientific and technical personnel.....	5,170	1.0	(nc)
Managers of scientific and technical personnel .....	1,000	0.2	(nc)
Computer and information systems managers .....	800	0.2	4
Engineering managers .....	200	<	8
Scientists .....	1,870	0.4	(nc)
Computer scientists .....	1,610	0.3	(nc)
Computer software, applications .....	120	<	17
Computer systems analysts .....	650	0.1	10
Network and computer systems administrators .....	710	0.1	5
Network systems/data communications analysts .....	130	<	24
Social scientists .....	260	0.1	(nc)
Market research analysts .....	260	0.1	14
Engineers .....	580	0.1	(nc)
Industrial .....	330	0.1	8
Mechanical .....	160	<	12
Other engineers .....	90	<	(nc)
Metallurgical/metallurgists .....	90	<	14
Technicians .....	1,720	0.3	(nc)
Computer, numerical tool, and process control programmers .....	1,370	0.3	(nc)
Computer programmers .....	1,370	0.3	8
Engineering technicians .....	350	0.1	(nc)
Electronical/electronics engineering technicians .....	110	<	15
Industrial engineering technicians .....	240	0.1	10
Manifold business forms (SIC 2760)			
Scientific and technical personnel.....	590	1.6	(nc)
Managers of scientific and technical personnel .....	60	0.2	(nc)
Computer and information systems managers .....	60	0.2	10
Scientists .....	220	0.6	(nc)
Computer scientists .....	220	0.6	(nc)
Computer systems analysts .....	140	0.4	14
Network and computer systems administrators .....	80	0.2	14

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Manifold business forms (SIC 2760) -- continued:			
Engineers .....	30	0.1	(nc)
Industrial .....	30	0.1	14
Technicians .....	280	0.8	(nc)
Computer, numerical tool, and process control programmers .....	250	0.7	(nc)
Computer programmers .....	250	0.7	19
Engineering technicians .....	30	0.1	(nc)
Electrical/electronics engineering technicians .....	30	0.1	32
Greeting cards (SIC 2770)			
Scientific and technical personnel.....	150	0.6	(nc)
Managers of scientific and technical personnel .....	70	0.3	(nc)
Computer and information systems managers .....	70	0.3	41
Scientists .....	80	0.3	(nc)
Computer scientists .....	80	0.3	(nc)
Computer systems analysts .....	80	0.3	31
Blankbooks and bookbinding (SIC 2780)			
Scientific and technical personnel.....	920	1.8	(nc)
Managers of scientific and technical personnel .....	110	0.2	(nc)
Computer and information systems managers .....	110	0.2	21
Scientists .....	500	1.0	(nc)
Computer scientists .....	400	0.8	(nc)
Computer systems analysts .....	230	0.4	25
Network and computer systems administrators .....	80	0.2	13
Network systems/data communications analysts .....	90	0.2	47
Social scientists .....	100	0.2	(nc)
Market research analysts .....	100	0.2	21
Engineers .....	80	0.2	(nc)
Industrial .....	40	0.1	14
Mechanical .....	40	0.1	21
Technicians .....	230	0.4	(nc)
Computer, numerical tool, and process control programmers .....	110	0.2	(nc)
Computer programmers .....	110	0.2	15
Engineering technicians .....	120	0.2	(nc)
Electrical/electronics engineering technicians .....	60	0.1	31
Industrial engineering technicians .....	60	0.1	34

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Printing trade services (SIC 2790)			
Scientific and technical personnel.....	840	2.0	(nc)
Managers of scientific and technical personnel .....	140	0.3	(nc)
Computer and information systems managers .....	140	0.3	8
Scientists .....	380	0.9	(nc)
Computer scientists .....	380	0.9	(nc)
Computer software, systems .....	60	0.2	19
Computer systems analysts .....	90	0.2	46
Network and computer systems administrators .....	180	0.4	15
Network systems/data communications analysts .....	50	0.1	37
Technicians .....	320	0.8	(nc)
Computer, numerical tool, and process control programmers .....	320	0.8	(nc)
Computer programmers .....	320	0.8	13
Industrial inorganic chemicals (SIC 2810)			
Scientific and technical personnel.....	13,580	14.9	(nc)
Managers of scientific and technical personnel .....	1,290	1.4	(nc)
Computer and information systems managers .....	380	0.4	17
Engineering managers .....	650	0.7	11
Natural sciences managers .....	260	0.3	15
Scientists .....	3,810	4.2	(nc)
Computer scientists .....	960	1.1	(nc)
Computer software, applications .....	50	0.1	23
Computer systems analysts .....	720	0.8	20
Network and computer systems administrators .....	190	0.2	10
Physical scientists .....	2,850	3.1	(nc)
Chemists .....	2,110	2.3	7
Environmental scientists and specialists, including health .....	680	0.8	30
Materials scientists .....	60	0.1	25
Engineers .....	4,660	5.1	(nc)
Civil .....	240	0.3	27
Electrical/electronics .....	120	0.1	(nc)
Electrical .....	120	0.1	10
Industrial .....	380	0.4	10
Mechanical .....	370	0.4	10
Sales .....	240	0.3	19
Other engineers .....	3,310	3.6	(nc)
Chemical .....	2,730	3.0	26
Environmental .....	170	0.2	8
Metallurgical/metallurgists .....	150	0.2	20
Safety .....	260	0.3	12

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Industrial inorganic chemicals (SIC 2810) -- continued:			
Technicians .....	3,820	4.2	(nc)
Computer, numerical tool, and process control programmers .....	150	0.2	(nc)
Computer programmers .....	150	0.2	15
Drafters .....	60	0.1	(nc)
Mechanical drafters .....	60	0.1	14
Engineering technicians .....	740	0.8	(nc)
Electronical/electronics engineering technicians .....	160	0.2	16
Environmental engineering technicians .....	80	0.1	20
Industrial engineering technicians .....	500	0.6	16
Physical and life science technicians .....	2,870	3.2	(nc)
Chemical technicians, except health .....	2,770	3.0	15
Environmental science and protection technicians, including health .....	100	0.1	14
Plastics materials and synthetics (SIC 2820)			
Scientific and technical personnel.....	19,090	14.1	(nc)
Managers of scientific and technical personnel .....	1,250	0.9	(nc)
Computer and information systems managers .....	290	0.2	9
Engineering managers .....	680	0.5	9
Natural sciences managers .....	280	0.2	15
Scientists .....	4,280	3.2	(nc)
Computer scientists .....	1,040	0.8	(nc)
Computer software, applications .....	90	0.1	33
Computer systems analysts .....	680	0.5	20
Network and computer systems administrators .....	190	0.1	8
Network systems/data communications analysts .....	80	0.1	30
Mathematical scientists .....	230	0.2	(nc)
Operations and systems researchers and analysts .....	230	0.2	38
Physical scientists .....	2,840	2.1	(nc)
Chemists .....	2,530	1.9	13
Environmental scientists and specialists, including health .....	100	0.1	21
Materials scientists .....	210	0.2	23
Social scientists .....	170	0.1	(nc)
Market research analysts .....	170	0.1	10
Engineers .....	6,480	4.8	(nc)
Civil .....	100	0.1	25
Computer .....	40	<	39
Electrical/electronics .....	290	0.2	(nc)
Electrical .....	240	0.2	10
Electronics .....	50	<	19
Industrial .....	1,060	0.8	10
Mechanical .....	1,140	0.8	10
Sales .....	140	0.1	10
Other engineers .....	3,710	2.8	(nc)
Chemical .....	2,770	2.1	9
Environmental .....	350	0.3	9
Metallurgical/metallurgists .....	210	0.2	19
Safety .....	380	0.3	8

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Plastics materials and synthetics (SIC 2820) -- continued:			
Technicians .....	7,080	5.2	(nc)
Computer, numerical tool, and process control programmers .....	120	0.1	(nc)
Computer programmers .....	120	0.1	11
Drafters .....	90	0.1	(nc)
Mechanical drafters .....	90	0.1	11
Engineering technicians .....	1,160	0.9	(nc)
Electronical/electronics engineering technicians .....	280	0.2	12
Environmental engineering technicians .....	100	0.1	16
Industrial engineering technicians .....	540	0.4	22
Mechanical engineering technicians .....	240	0.2	30
Physical and life science technicians .....	5,710	4.2	(nc)
Biological technicians .....	70	0.1	42
Chemical technicians, except health .....	5,530	4.1	9
Environmental science and protection technicians, including health .....	110	0.1	18
Drugs (SIC 2830)			
Scientific and technical personnel.....	70,100	21.6	(nc)
Managers of scientific and technical personnel .....	9,200	2.8	(nc)
Computer and information systems managers .....	2,700	0.8	20
Engineering managers .....	1,660	0.5	8
Natural sciences managers .....	4,840	1.5	20
Scientists .....	36,130	11.1	(nc)
Computer scientists .....	4,300	1.3	(nc)
Computer and information scientists, research .....	80	<	27
Computer software, applications .....	470	0.1	34
Computer systems analysts .....	2,750	0.9	17
Network and computer systems administrators .....	830	0.3	8
Network systems/data communications analysts .....	170	0.1	15
Life scientists .....	15,850	4.9	(nc)
Agricultural scientists .....	80	<	24
Biochemists and biophysicists .....	5,400	1.7	12
Medical scientists, except epidemiologists .....	6,980	2.2	15
Microbiologists .....	3,390	1.0	11
Mathematical scientists .....	530	0.2	(nc)
Mathematicians .....	140	<	44
Statisticians .....	390	0.1	19
Physical scientists .....	14,800	4.6	(nc)
Chemists .....	14,620	4.5	11
Environmental scientists and specialists, including health .....	180	0.1	21
Social scientists .....	650	0.2	(nc)
Market research analysts .....	620	0.2	28
Survey researchers .....	30	<	39

See explanatory information and SOURCE at end of table.



Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Drugs (SIC 2830) -- continued:			
Engineers .....	7,120	2.2	(nc)
Civil .....	130	<	13
Electrical/electronics .....	140	<	(nc)
Electrical .....	140	<	16
Industrial .....	2,040	0.6	7
Mechanical .....	580	0.2	10
Sales .....	50	<	29
Other engineers .....	4,180	1.3	(nc)
Biomedical .....	950	0.3	18
Chemical .....	2,070	0.6	23
Environmental .....	370	0.1	24
Metallurgical/metallurgists .....	140	<	12
Safety .....	650	0.2	20
Technicians .....	17,650	5.4	(nc)
Computer, numerical tool, and process control programmers .....	1,020	0.3	(nc)
Computer programmers .....	1,020	0.3	10
Drafters .....	410	0.1	(nc)
Electrical and electronics drafters .....	60	<	32
Mechanical drafters .....	350	0.1	20
Engineering technicians .....	2,410	0.7	(nc)
Electrical/electronics engineering technicians .....	780	0.2	16
Environmental engineering technicians .....	60	<	12
Industrial engineering technicians .....	840	0.3	12
Mechanical engineering technicians .....	730	0.2	14
Physical and life science technicians .....	13,810	4.3	(nc)
Agricultural and food science technicians .....	120	<	20
Biological technicians .....	6,630	2.0	8
Chemical technicians, except health .....	6,420	2.0	11
Environmental science and protection technicians, including health .....	500	0.2	40
Nuclear technicians .....	140	<	29
Soap, cleaners, and toilet goods (SIC 2840)			
Scientific and technical personnel.....	13,080	8.8	(nc)
Managers of scientific and technical personnel .....	1,680	1.1	(nc)
Computer and information systems managers .....	580	0.4	16
Engineering managers .....	460	0.3	11
Natural sciences managers .....	640	0.4	16
Scientists .....	5,990	4.0	(nc)
Computer scientists .....	930	0.6	(nc)
Computer software, applications .....	110	0.1	18
Computer software, systems .....	30	<	29
Computer systems analysts .....	370	0.3	44
Network and computer systems administrators .....	390	0.3	15
Network systems/data communications analysts .....	30	<	48

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Soap, cleaners, and toilet goods (SIC 2840) -- continued:			
Life scientists .....	370	0.3	(nc)
Biochemists and biophysicists .....	100	0.1	49
Microbiologists .....	270	0.2	12
Physical scientists .....	4,460	3.0	(nc)
Chemists .....	4,110	2.8	10
Environmental scientists and specialists, including health .....	30	<	33
Materials scientists .....	320	0.2	23
Social scientists .....	230	0.2	(nc)
Market research analysts .....	230	0.2	9
Engineers .....	1,850	1.3	(nc)
Civil .....	40	<	36
Computer .....	50	<	47
Electrical/electronics .....	70	0.1	(nc)
Electrical .....	70	0.1	23
Industrial .....	680	0.5	13
Mechanical .....	220	0.2	16
Sales .....	40	<	13
Other engineers .....	750	0.5	(nc)
Chemical .....	450	0.3	8
Environmental .....	100	0.1	16
Metallurgical/metallurgists .....	40	<	19
Safety .....	160	0.1	10
Technicians .....	3,560	2.4	(nc)
Computer, numerical tool, and process control programmers .....	470	0.3	(nc)
Computer programmers .....	470	0.3	19
Engineering technicians .....	440	0.3	(nc)
Electrical/electronics engineering technicians .....	110	0.1	21
Environmental engineering technicians .....	50	<	20
Industrial engineering technicians .....	160	0.1	14
Mechanical engineering technicians .....	120	0.1	24
Physical and life science technicians .....	2,650	1.8	(nc)
Biological technicians .....	110	0.1	22
Chemical technicians, except health .....	2,540	1.7	12
Paints and allied products (SIC 2850)			
Scientific and technical personnel.....	5,550	11.6	(nc)
Managers of scientific and technical personnel .....	540	1.1	(nc)
Computer and information systems managers .....	220	0.5	27
Engineering managers .....	180	0.4	11
Natural sciences managers .....	140	0.3	24

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001

[Filled positions]

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Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Paints and allied products (SIC 2850) -- continued:			
Scientists .....	2,540	5.3	(nc)
Computer scientists .....	410	0.9	(nc)
Computer systems analysts .....	320	0.7	35
Network and computer systems administrators .....	90	0.2	10
Physical scientists .....	2,090	4.4	(nc)
Chemists .....	1,940	4.1	12
Environmental scientists and specialists, including health .....	70	0.2	21
Materials scientists .....	80	0.2	24
Social scientists .....	40	0.1	(nc)
Market research analysts .....	40	0.1	10
Engineers .....	730	1.5	(nc)
Industrial .....	110	0.2	23
Sales .....	140	0.3	26
Other engineers .....	480	1.0	(nc)
Chemical .....	230	0.5	10
Environmental .....	140	0.3	23
Metallurgical/metallurgists .....	50	0.1	30
Safety .....	60	0.1	9
Technicians .....	1,740	3.6	(nc)
Computer, numerical tool, and process control programmers .....	250	0.5	(nc)
Computer programmers .....	250	0.5	25
Engineering technicians .....	30	0.1	(nc)
Industrial engineering technicians .....	30	0.1	20
Physical and life science technicians .....	1,460	3.1	(nc)
Biological technicians .....	50	0.1	27
Chemical technicians, except health .....	1,410	3.0	5
Industrial organic chemicals (SIC 2860)			
Scientific and technical personnel.....	23,740	21.5	(nc)
Managers of scientific and technical personnel .....	1,660	1.5	(nc)
Computer and information systems managers .....	480	0.4	13
Engineering managers .....	840	0.8	17
Natural sciences managers .....	340	0.3	16
Scientists .....	6,830	6.2	(nc)
Computer scientists .....	730	0.7	(nc)
Computer systems analysts .....	450	0.4	9
Network and computer systems administrators .....	170	0.2	7
Network systems/data communications analysts .....	110	0.1	17
Life scientists .....	880	0.8	(nc)
Biochemists and biophysicists .....	460	0.4	33
Microbiologists .....	420	0.4	48

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Industrial organic chemicals (SIC 2860) -- continued:			
Mathematical scientists .....	60	0.1	(nc)
Operations and systems researchers and analysts .....	60	0.1	29
Physical scientists .....	5,100	4.6	(nc)
Chemists .....	3,670	3.3	13
Environmental scientists and specialists, including health .....	220	0.2	22
Materials scientists .....	1,170	1.1	47
Physicists .....	40	<	33
Social scientists .....	60	0.1	(nc)
Market research analysts .....	60	0.1	16
Engineers .....	6,360	5.8	(nc)
Civil .....	190	0.2	17
Electrical/electronics .....	420	0.4	(nc)
Electrical .....	370	0.3	20
Electronics .....	50	0.1	15
Industrial .....	870	0.8	12
Mechanical .....	780	0.7	15
Sales .....	70	0.1	13
Other engineers .....	4,030	3.6	(nc)
Chemical .....	2,790	2.5	9
Environmental .....	420	0.4	21
Metallurgical/metallurgists .....	200	0.2	18
Petroleum .....	160	0.1	41
Safety .....	460	0.4	14
Technicians .....	8,890	8.0	(nc)
Computer, numerical tool, and process control programmers .....	590	0.5	(nc)
Computer programmers .....	590	0.5	22
Drafters .....	230	0.2	(nc)
Mechanical drafters .....	230	0.2	16
Engineering technicians .....	970	0.9	(nc)
Electrical/electronics engineering technicians .....	190	0.2	32
Environmental engineering technicians .....	120	0.1	31
Industrial engineering technicians .....	330	0.3	18
Mechanical engineering technicians .....	330	0.3	38
Physical and life science technicians .....	7,100	6.4	(nc)
Biological technicians .....	710	0.6	44
Chemical technicians, except health .....	6,140	5.6	14
Environmental science and protection technicians, including health .....	190	0.2	17
Geological and petroleum technicians .....	60	0.1	28
Agricultural chemicals (SIC 2870)			
Scientific and technical personnel.....	5,780	12.4	(nc)
Managers of scientific and technical personnel .....	390	0.8	(nc)
Computer and information systems managers .....	90	0.2	15
Engineering managers .....	150	0.3	10
Natural sciences managers .....	150	0.3	29

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Agricultural chemicals (SIC 2870) -- continued:			
Scientists .....	1,810	3.9	(nc)
Computer scientists .....	470	1.0	(nc)
Computer systems analysts .....	230	0.5	29
Network and computer systems administrators .....	80	0.2	13
Network systems/data communications analysts .....	160	0.3	18
Life scientists .....	90	0.2	(nc)
Agricultural scientists .....	60	0.1	17
Biochemists and biophysicists .....	30	0.1	32
Physical scientists .....	1,220	2.6	(nc)
Chemists .....	950	2.0	30
Environmental scientists and specialists, including health .....	270	0.6	39
Social scientists .....	30	0.1	(nc)
Market research analysts .....	30	0.1	6
Engineers .....	1,910	4.1	(nc)
Civil .....	30	0.1	21
Electrical/electronics .....	70	0.2	(nc)
Electrical .....	70	0.2	17
Industrial .....	150	0.3	20
Mechanical .....	440	1.0	14
Sales .....	90	0.2	18
Other engineers .....	1,130	2.4	(nc)
Chemical .....	750	1.6	10
Environmental .....	120	0.3	15
Safety .....	260	0.6	14
Technicians .....	1,670	3.6	(nc)
Computer, numerical tool, and process control programmers .....	80	0.2	(nc)
Computer programmers .....	80	0.2	23
Drafters .....	40	0.1	(nc)
Mechanical drafters .....	40	0.1	15
Engineering technicians .....	260	0.6	(nc)
Electronical/electronics engineering technicians .....	100	0.2	30
Environmental engineering technicians .....	40	0.1	22
Industrial engineering technicians .....	120	0.3	25
Physical and life science technicians .....	1,290	2.8	(nc)
Agricultural and food science technicians .....	60	0.1	26
Biological technicians .....	160	0.3	38
Chemical technicians, except health .....	890	1.9	9
Environmental science and protection technicians, including health .....	180	0.4	28
Miscellaneous chemical products (SIC 2890)			
Scientific and technical personnel.....	10,070	11.1	(nc)
Managers of scientific and technical personnel .....	950	1.1	(nc)
Computer and information systems managers .....	370	0.4	11
Engineering managers .....	470	0.5	8
Natural sciences managers .....	110	0.1	9

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Miscellaneous chemical products (SIC 2890) -- continued:			
Scientists .....	3,330	3.7	(nc)
Computer scientists .....	480	0.5	(nc)
Computer software, applications .....	40	<	27
Computer systems analysts .....	180	0.2	10
Network and computer systems administrators .....	260	0.3	12
Physical scientists .....	2,770	3.1	(nc)
Chemists .....	2,610	2.9	7
Environmental scientists and specialists, including health .....	40	<	18
Materials scientists .....	120	0.1	12
Social scientists .....	80	0.1	(nc)
Market research analysts .....	80	0.1	29
Engineers .....	2,150	2.4	(nc)
Electrical/electronics .....	60	0.1	(nc)
Electrical .....	60	0.1	15
Industrial .....	410	0.5	10
Mechanical .....	230	0.3	10
Sales .....	370	0.4	12
Other engineers .....	1,080	1.2	(nc)
Chemical .....	640	0.7	8
Environmental .....	130	0.1	8
Metallurgical/metallurgists .....	150	0.2	13
Safety .....	160	0.2	10
Technicians .....	3,640	4.0	(nc)
Computer, numerical tool, and process control programmers .....	230	0.3	(nc)
Computer programmers .....	230	0.3	15
Drafters .....	50	0.1	(nc)
Mechanical drafters .....	50	0.1	14
Engineering technicians .....	680	0.7	(nc)
Electronical/electronics engineering technicians .....	100	0.1	26
Environmental engineering technicians .....	40	<	35
Industrial engineering technicians .....	410	0.5	29
Mechanical engineering technicians .....	130	0.1	25
Physical and life science technicians .....	2,680	3.0	(nc)
Biological technicians .....	50	0.1	38
Chemical technicians, except health .....	2,550	2.8	6
Environmental science and protection technicians, including health .....	80	0.1	18
Petroleum refining (SIC 2910)			
Scientific and technical personnel.....	11,390	13.9	(nc)
Managers of scientific and technical personnel .....	810	1.0	(nc)
Computer and information systems managers .....	210	0.3	10
Engineering managers .....	600	0.7	6

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Petroleum refining (SIC 2910) -- continued:			
Scientists .....	3,560	4.4	(nc)
Computer scientists .....	2,410	3.0	(nc)
Computer software, applications .....	50	0.1	13
Computer systems analysts .....	2,140	2.6	14
Network and computer systems administrators .....	120	0.2	11
Network systems/data communications analysts .....	100	0.1	8
Physical scientists .....	1,070	1.3	(nc)
Chemists .....	560	0.7	7
Environmental scientists and specialists, including health .....	240	0.3	14
Geoscientists, except hydrologists and geographers .....	270	0.3	18
Social scientists .....	80	0.1	(nc)
Market research analysts .....	80	0.1	12
Engineers .....	3,900	4.8	(nc)
Civil .....	200	0.2	12
Electrical/electronics .....	240	0.3	(nc)
Electrical .....	200	0.2	15
Electronics .....	40	0.1	21
Industrial .....	900	1.1	14
Mechanical .....	470	0.6	13
Other engineers .....	2,090	2.6	(nc)
Chemical .....	920	1.1	14
Environmental .....	300	0.4	9
Metallurgical/metallurgists .....	70	0.1	16
Petroleum .....	590	0.7	14
Safety .....	210	0.3	10
Technicians .....	3,120	3.8	(nc)
Computer, numerical tool, and process control programmers .....	500	0.6	(nc)
Computer programmers .....	500	0.6	17
Drafters .....	80	0.1	(nc)
Mechanical drafters .....	80	0.1	13
Engineering technicians .....	590	0.7	(nc)
Electronical/electronics engineering technicians .....	190	0.2	40
Environmental engineering technicians .....	120	0.2	11
Industrial engineering technicians .....	140	0.2	13
Mechanical engineering technicians .....	140	0.2	45
Physical and life science technicians .....	1,950	2.4	(nc)
Biological technicians .....	50	0.1	29
Chemical technicians, except health .....	1,360	1.7	23
Environmental science and protection technicians, including health .....	150	0.2	17
Geological and petroleum technicians .....	390	0.5	17

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
<b>Asphalt paving and roofing materials (SIC 2950)</b>			
Scientific and technical personnel.....	490	1.6	(nc)
Managers of scientific and technical personnel .....	100	0.3	(nc)
Computer and information systems managers .....	30	0.1	15
Engineering managers .....	70	0.2	11
Scientists .....	60	0.2	(nc)
Physical scientists .....	60	0.2	(nc)
Chemists .....	60	0.2	12
Engineers .....	190	0.6	(nc)
Civil .....	50	0.2	13
Industrial .....	50	0.2	21
Mechanical .....	50	0.2	11
Other engineers .....	40	0.1	(nc)
Chemical .....	40	0.1	15
Technicians .....	140	0.5	(nc)
Physical and life science technicians .....	140	0.5	(nc)
Chemical technicians, except health .....	140	0.5	10
<b>Misc. petroleum and coal products (SIC 2990)</b>			
Scientific and technical personnel.....	1,170	8.3	(nc)
Managers of scientific and technical personnel .....	90	0.6	(nc)
Computer and information systems managers .....	50	0.4	7
Engineering managers .....	40	0.3	14
Scientists .....	380	2.7	(nc)
Physical scientists .....	380	2.7	(nc)
Chemists .....	380	2.7	8
Engineers .....	270	1.9	(nc)
Sales .....	80	0.6	15
Other engineers .....	190	1.4	(nc)
Chemical .....	160	1.1	9
Safety .....	30	0.2	9
Technicians .....	430	3.1	(nc)
Physical and life science technicians .....	430	3.1	(nc)
Chemical technicians, except health .....	430	3.1	9
<b>Tires and inner tubes (SIC 3010)</b>			
Scientific and technical personnel.....	2,940	4.0	(nc)
Managers of scientific and technical personnel .....	260	0.4	(nc)
Computer and information systems managers .....	60	0.1	26
Engineering managers .....	200	0.3	11

See explanatory information and SOURCE at end of table.



Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Tires and inner tubes (SIC 3010) -- continued:			
Scientists .....	270	0.4	(nc)
Computer scientists .....	130	0.2	(nc)
Computer software, applications .....	40	0.1	29
Computer systems analysts .....	90	0.1	17
Physical scientists .....	140	0.2	(nc)
Chemists .....	140	0.2	18
Engineers .....	1,420	1.9	(nc)
Electrical/electronics .....	280	0.4	(nc)
Electrical .....	280	0.4	10
Industrial .....	340	0.5	9
Mechanical .....	460	0.6	13
Other engineers .....	340	0.5	(nc)
Chemical .....	90	0.1	21
Environmental .....	30	<	14
Metallurgical/metallurgists .....	80	0.1	39
Safety .....	140	0.2	34
Technicians .....	990	1.3	(nc)
Computer, numerical tool, and process control programmers .....	60	0.1	(nc)
Computer programmers .....	60	0.1	11
Drafters .....	70	0.1	(nc)
Mechanical drafters .....	70	0.1	28
Engineering technicians .....	680	0.9	(nc)
Electrical/electronics engineering technicians .....	290	0.4	13
Industrial engineering technicians .....	30	<	24
Mechanical engineering technicians .....	360	0.5	14
Physical and life science technicians .....	180	0.2	(nc)
Chemical technicians, except health .....	180	0.2	27
Hose & belting & gaskets & packing (SIC 3050)			
Scientific and technical personnel .....	3,470	5.1	(nc)
Managers of scientific and technical personnel .....	400	0.6	(nc)
Computer and information systems managers .....	110	0.2	7
Engineering managers .....	290	0.4	5
Scientists .....	380	0.6	(nc)
Computer scientists .....	240	0.4	(nc)
Computer systems analysts .....	120	0.2	10
Network and computer systems administrators .....	120	0.2	8
Physical scientists .....	90	0.1	(nc)
Chemists .....	90	0.1	11
Social scientists .....	50	0.1	(nc)
Market research analysts .....	50	0.1	9

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Hose & belting & gaskets & packing (SIC 3050) -- continued:			
Engineers .....	1,720	2.5	(nc)
Industrial .....	680	1.0	5
Mechanical .....	530	0.8	9
Sales .....	240	0.4	20
Other engineers .....	270	0.4	(nc)
Chemical .....	90	0.1	12
Metallurgical/metallurgists .....	130	0.2	11
Safety .....	50	0.1	16
Technicians .....	970	1.4	(nc)
Computer, numerical tool, and process control programmers .....	160	0.2	(nc)
Computer programmers .....	60	0.1	13
Numerical tool and process control programmers .....	100	0.2	29
Drafters .....	100	0.2	(nc)
Mechanical drafters .....	100	0.2	7
Engineering technicians .....	520	0.8	(nc)
Electronical/electronics engineering technicians .....	60	0.1	7
Electro-mechanical technicians .....	70	0.1	32
Industrial engineering technicians .....	260	0.4	11
Mechanical engineering technicians .....	130	0.2	10
Physical and life science technicians .....	190	0.3	(nc)
Chemical technicians, except health .....	190	0.3	12
Fabricated rubber products, n.e.c. (SIC 3060)			
Scientific and technical personnel.....	4,100	4.3	(nc)
Managers of scientific and technical personnel .....	500	0.5	(nc)
Computer and information systems managers .....	140	0.2	7
Engineering managers .....	360	0.4	6
Scientists .....	530	0.6	(nc)
Computer scientists .....	120	0.1	(nc)
Network and computer systems administrators .....	120	0.1	8
Physical scientists .....	410	0.4	(nc)
Chemists .....	410	0.4	9
Engineers .....	1,830	1.9	(nc)
Industrial .....	730	0.8	7
Mechanical .....	690	0.7	6
Sales .....	130	0.1	7
Other engineers .....	280	0.3	(nc)
Chemical .....	170	0.2	7
Metallurgical/metallurgists .....	40	<	19
Safety .....	70	0.1	7

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Fabricated rubber products, n.e.c. (SIC 3060) -- continued:			
Technicians .....	1,240	1.3	(nc)
Computer, numerical tool, and process control programmers .....	160	0.2	(nc)
Computer programmers .....	160	0.2	8
Engineering technicians .....	660	0.7	(nc)
Industrial engineering technicians .....	330	0.4	6
Mechanical engineering technicians .....	330	0.4	8
Physical and life science technicians .....	420	0.4	(nc)
Chemical technicians, except health .....	420	0.4	8
Miscellaneous plastics products, n.e.c. (SIC 3080)			
Scientific and technical personnel.....	23,340	3.5	(nc)
Managers of scientific and technical personnel .....	2,880	0.4	(nc)
Computer and information systems managers .....	890	0.1	4
Engineering managers .....	1,940	0.3	3
Natural sciences managers .....	50	<	15
Scientists .....	2,780	0.4	(nc)
Computer scientists .....	1,700	0.3	(nc)
Computer software, applications .....	310	0.1	16
Computer software, systems .....	50	<	27
Computer systems analysts .....	560	0.1	12
Network and computer systems administrators .....	600	0.1	4
Network systems/data communications analysts .....	180	<	11
Physical scientists .....	770	0.1	(nc)
Chemists .....	530	0.1	9
Materials scientists .....	240	<	24
Social scientists .....	310	0.1	(nc)
Market research analysts .....	310	0.1	17
Engineers .....	10,800	1.6	(nc)
Civil .....	60	<	13
Electrical/electronics .....	490	0.1	(nc)
Electrical .....	410	0.1	11
Electronics .....	80	<	12
Industrial .....	4,840	0.7	6
Mechanical .....	2,600	0.4	6
Sales .....	1,100	0.2	11
Other engineers .....	1,710	0.3	(nc)
Chemical .....	560	0.1	9
Environmental .....	120	<	8
Metallurgical/metallurgists .....	720	0.1	7
Safety .....	310	0.1	6

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Miscellaneous plastics products, n.e.c. (SIC 3080) -- continued:			
Technicians .....	6,880	1.0	(nc)
Computer, numerical tool, and process control programmers .....	1,660	0.2	(nc)
Computer programmers .....	680	0.1	11
Numerical tool and process control programmers .....	980	0.1	11
Drafters .....	820	0.1	(nc)
Architectural and civil drafters .....	70	<	39
Electrical and electronics drafters .....	40	<	21
Mechanical drafters .....	710	0.1	6
Engineering technicians .....	3,450	0.5	(nc)
Electrical/electronics engineering technicians .....	410	0.1	11
Electro-mechanical technicians .....	310	0.1	10
Environmental engineering technicians .....	50	<	16
Industrial engineering technicians .....	1,940	0.3	6
Mechanical engineering technicians .....	740	0.1	11
Physical and life science technicians .....	950	0.1	(nc)
Chemical technicians, except health .....	900	0.1	8
Environmental science and protection technicians, including health .....	50	<	13
Footwear, except rubber (SIC 3140)			
Scientific and technical personnel.....	210	0.9	(nc)
Managers of scientific and technical personnel .....	50	0.2	(nc)
Computer and information systems managers .....	50	0.2	19
Scientists .....	80	0.4	(nc)
Computer scientists .....	80	0.4	(nc)
Computer systems analysts .....	80	0.4	36
Engineers .....	30	0.1	(nc)
Industrial .....	30	0.1	10
Technicians .....	50	0.2	(nc)
Computer, numerical tool, and process control programmers .....	50	0.2	(nc)
Computer programmers .....	50	0.2	3
Luggage (SIC 3160)			
Scientific and technical personnel.....	30	0.4	(nc)
Engineers .....	30	0.4	(nc)
Industrial .....	30	0.4	20
Flat glass (SIC 3210)			
Scientific and technical personnel.....	310	2.0	(nc)
Managers of scientific and technical personnel .....	50	0.3	(nc)
Engineering managers .....	50	0.3	11

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Flat glass (SIC 3210) -- continued:			
Engineers .....	180	1.2	(nc)
Electrical/electronics .....	30	0.2	(nc)
Electrical .....	30	0.2	16
Industrial .....	40	0.3	30
Mechanical .....	60	0.4	11
Other engineers .....	50	0.3	(nc)
Metallurgical/metallurgists .....	50	0.3	17
Technicians .....	80	0.5	(nc)
Engineering technicians .....	80	0.5	(nc)
Electronical/electronics engineering technicians .....	40	0.3	24
Industrial engineering technicians .....	40	0.3	33
Glass and glassware, pressed or blown (SIC 3220)			
Scientific and technical personnel.....	1,680	2.8	(nc)
Managers of scientific and technical personnel .....	240	0.4	(nc)
Computer and information systems managers .....	70	0.1	8
Engineering managers .....	170	0.3	8
Scientists .....	190	0.3	(nc)
Computer scientists .....	190	0.3	(nc)
Computer software, applications .....	100	0.2	10
Computer systems analysts .....	40	0.1	27
Network and computer systems administrators .....	50	0.1	21
Engineers .....	750	1.3	(nc)
Electrical/electronics .....	120	0.2	(nc)
Electrical .....	120	0.2	13
Industrial .....	180	0.3	9
Mechanical .....	300	0.5	9
Sales .....	30	0.1	19
Other engineers .....	120	0.2	(nc)
Environmental .....	40	0.1	14
Metallurgical/metallurgists .....	80	0.1	12
Technicians .....	500	0.8	(nc)
Computer, numerical tool, and process control programmers .....	80	0.1	(nc)
Computer programmers .....	80	0.1	25
Drafters .....	40	0.1	(nc)
Mechanical drafters .....	40	0.1	21
Engineering technicians .....	380	0.6	(nc)
Electronical/electronics engineering technicians .....	40	0.1	10
Electro-mechanical technicians .....	200	0.3	27
Mechanical engineering technicians .....	140	0.2	18

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001

[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Products of purchased glass (SIC 3230)			
Scientific and technical personnel.....	1,500	2.4	(nc)
Managers of scientific and technical personnel .....	250	0.4	(nc)
Computer and information systems managers .....	70	0.1	9
Engineering managers .....	180	0.3	7
Scientists .....	150	0.2	(nc)
Computer scientists .....	150	0.2	(nc)
Computer software, applications .....	30	0.1	48
Computer systems analysts .....	50	0.1	17
Network and computer systems administrators .....	70	0.1	11
Engineers .....	760	1.2	(nc)
Electrical/electronics .....	100	0.2	(nc)
Electrical .....	100	0.2	15
Industrial .....	320	0.5	9
Mechanical .....	270	0.4	9
Other engineers .....	70	0.1	(nc)
Metallurgical/metallurgists .....	70	0.1	11
Technicians .....	340	0.5	(nc)
Computer, numerical tool, and process control programmers .....	70	0.1	(nc)
Computer programmers .....	70	0.1	28
Drafters .....	50	0.1	(nc)
Mechanical drafters .....	50	0.1	14
Engineering technicians .....	220	0.4	(nc)
Electronical/electronics engineering technicians .....	50	0.1	26
Industrial engineering technicians .....	120	0.2	17
Mechanical engineering technicians .....	50	0.1	28
Cement, hydraulic (SIC 3240)			
Scientific and technical personnel.....	1,050	6.0	(nc)
Managers of scientific and technical personnel .....	80	0.5	(nc)
Computer and information systems managers .....	40	0.2	10
Engineering managers .....	40	0.2	11
Scientists .....	220	1.3	(nc)
Physical scientists .....	220	1.3	(nc)
Chemists .....	220	1.3	12
Engineers .....	370	2.1	(nc)
Electrical/electronics .....	50	0.3	(nc)
Electrical .....	50	0.3	10
Industrial .....	110	0.6	11
Mechanical .....	70	0.4	11
Other engineers .....	140	0.8	(nc)
Chemical .....	50	0.3	16
Environmental .....	60	0.3	12
Mining and geological .....	30	0.2	11

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Cement, hydraulic (SIC 3240) -- continued:			
Technicians .....	380	2.2	(nc)
Engineering technicians .....	70	0.4	(nc)
Electronical/electronics engineering technicians .....	70	0.4	15
Physical and life science technicians .....	310	1.8	(nc)
Chemical technicians, except health .....	310	1.8	11
Structural clay products (SIC 3250)			
Scientific and technical personnel.....	320	1.0	(nc)
Managers of scientific and technical personnel .....	90	0.3	(nc)
Computer and information systems managers .....	40	0.1	17
Engineering managers .....	50	0.2	12
Engineers .....	180	0.6	(nc)
Industrial .....	60	0.2	18
Mechanical .....	40	0.1	17
Other engineers .....	80	0.3	(nc)
Metallurgical/metallurgists .....	80	0.3	12
Technicians .....	50	0.2	(nc)
Physical and life science technicians .....	50	0.2	(nc)
Chemical technicians, except health .....	50	0.2	35
Pottery and related products (SIC 3260)			
Scientific and technical personnel.....	640	2.0	(nc)
Managers of scientific and technical personnel .....	150	0.5	(nc)
Computer and information systems managers .....	40	0.1	9
Engineering managers .....	110	0.3	7
Engineers .....	380	1.2	(nc)
Industrial .....	110	0.3	7
Mechanical .....	110	0.3	8
Other engineers .....	160	0.5	(nc)
Chemical .....	40	0.1	25
Metallurgical/metallurgists .....	120	0.4	7
Technicians .....	110	0.3	(nc)
Engineering technicians .....	70	0.2	(nc)
Industrial engineering technicians .....	70	0.2	12
Physical and life science technicians .....	40	0.1	(nc)
Chemical technicians, except health .....	40	0.1	15
Concrete, gypsum, and plaster products (SIC 3270)			
Scientific and technical personnel.....	3,420	1.4	(nc)
Managers of scientific and technical personnel .....	520	0.2	(nc)
Computer and information systems managers .....	150	0.1	12
Engineering managers .....	370	0.2	7

See explanatory information and SOURCE at end of table.

Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Concrete, gypsum, and plaster products (SIC 3270) -- continued:			
Scientists .....	350	0.1	(nc)
Computer scientists .....	200	0.1	(nc)
Computer software, applications .....	30	<	17
Computer systems analysts .....	60	<	9
Network and computer systems administrators .....	110	0.1	12
Physical scientists .....	90	<	(nc)
Chemists .....	30	<	21
Materials scientists .....	60	<	37
Social scientists .....	60	<	(nc)
Market research analysts .....	60	<	20
Engineers .....	1,320	0.6	(nc)
Civil .....	380	0.2	14
Industrial .....	420	0.2	8
Mechanical .....	260	0.1	23
Sales .....	180	0.1	10
Other engineers .....	80	<	(nc)
Environmental .....	40	<	13
Mining and geological .....	40	<	22
Technicians .....	1,230	0.5	(nc)
Computer, numerical tool, and process control programmers .....	70	<	(nc)
Computer programmers .....	70	<	11
Drafters .....	300	0.1	(nc)
Architectural and civil drafters .....	120	0.1	19
Mechanical drafters .....	180	0.1	12
Engineering technicians .....	700	0.3	(nc)
Civil engineering technicians .....	220	0.1	10
Electronical/electronics engineering technicians .....	90	<	24
Electro-mechanical technicians .....	40	<	36
Industrial engineering technicians .....	350	0.1	9
Physical and life science technicians .....	160	0.1	(nc)
Chemical technicians, except health .....	160	0.1	15
Misc. nonmetallic mineral products (SIC 3290)			
Scientific and technical personnel.....	2,810	4.2	(nc)
Managers of scientific and technical personnel .....	410	0.6	(nc)
Computer and information systems managers .....	100	0.2	6
Engineering managers .....	260	0.4	5
Natural sciences managers .....	50	0.1	13

See explanatory information and SOURCE at end of table.



Table 6. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 20-32 (selected manufacturing industries), and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Misc. nonmetallic mineral products (SIC 3290) -- continued:			
Scientists .....	360	0.5	(nc)
Computer scientists .....	200	0.3	(nc)
Computer software, applications .....	30	<	16
Computer systems analysts .....	40	0.1	12
Network and computer systems administrators .....	80	0.1	5
Network systems/data communications analysts .....	50	0.1	27
Physical scientists .....	160	0.2	(nc)
Chemists .....	100	0.2	13
Materials scientists .....	60	0.1	11
Engineers .....	1,110	1.6	(nc)
Electrical/electronics .....	50	0.1	(nc)
Electrical .....	50	0.1	11
Industrial .....	290	0.4	5
Mechanical .....	260	0.4	8
Sales .....	130	0.2	18
Other engineers .....	380	0.6	(nc)
Chemical .....	110	0.2	15
Environmental .....	50	0.1	11
Metallurgical/metallurgists .....	220	0.3	7
Technicians .....	930	1.4	(nc)
Computer, numerical tool, and process control programmers .....	80	0.1	(nc)
Computer programmers .....	80	0.1	8
Drafters .....	140	0.2	(nc)
Electrical and electronics drafters .....	70	0.1	35
Mechanical drafters .....	70	0.1	12
Engineering technicians .....	380	0.6	(nc)
Electrical/electronics engineering technicians .....	140	0.2	15
Electro-mechanical technicians .....	40	0.1	46
Industrial engineering technicians .....	160	0.2	9
Mechanical engineering technicians .....	40	0.1	12
Physical and life science technicians .....	330	0.5	(nc)
Chemical technicians, except health .....	330	0.5	12

<sup>1</sup> SET intensity = the ratio of SET employment (including SET managers) in a given SIC to total employment in that SIC, expressed in percentage terms.

<sup>2</sup> Relative standard error of the estimate of filled positions, expressed as a percentage.

KEY:       nc       = Not computed  
           <       = The estimated actual value is less than 0.05 for percentages when used  
                   to characterize SET intensity.  
           n.e.c.   = Not elsewhere classified.  
           SIC     = Standard Industrial Classification. See Technical Notes for explanation.

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

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

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Blast furnace and basic steel products (SIC 3310)			
Scientific and technical personnel.....	7,910	4.1	(nc)
Managers of scientific and technical personnel .....	730	0.4	(nc)
Computer and information systems managers .....	330	0.2	10
Engineering managers .....	400	0.2	6
Scientists .....	1,320	0.7	(nc)
Computer scientists .....	920	0.5	(nc)
Computer software, applications .....	160	0.1	16
Computer software, systems .....	120	0.1	24
Computer systems analysts .....	430	0.2	20
Network and computer systems administrators .....	160	0.1	14
Network systems/data communications analysts .....	50	<	19
Mathematical scientists .....	170	0.1	(nc)
Operations and systems researchers and analysts .....	170	0.1	15
Physical scientists .....	230	0.1	(nc)
Chemists .....	180	0.1	13
Materials scientists .....	50	<	14
Engineers .....	3,420	1.8	(nc)
Civil .....	40	<	16
Electrical/electronics .....	270	0.1	(nc)
Electrical .....	240	0.1	8
Electronics .....	30	<	13
Industrial .....	890	0.5	8
Mechanical .....	780	0.4	11
Sales .....	90	0.1	17
Other engineers .....	1,350	0.7	(nc)
Environmental .....	150	0.1	6
Metallurgical/metallurgists .....	1,020	0.5	13
Safety .....	180	0.1	11
Technicians .....	2,440	1.3	(nc)
Computer, numerical tool, and process control programmers .....	320	0.2	(nc)
Computer programmers .....	320	0.2	11
Drafters .....	380	0.2	(nc)
Architectural and civil drafters .....	50	<	2
Electrical and electronics drafters .....	100	0.1	36
Mechanical drafters .....	230	0.1	11
Engineering technicians .....	1,120	0.6	(nc)
Electrical/electronics engineering technicians .....	400	0.2	12
Electro-mechanical technicians .....	140	0.1	13
Environmental engineering technicians .....	50	<	19
Industrial engineering technicians .....	150	0.1	15
Mechanical engineering technicians .....	380	0.2	17
Physical and life science technicians .....	620	0.3	(nc)
Chemical technicians, except health .....	570	0.3	12
Environmental science and protection technicians, including health .....	50	<	17

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Iron and steel foundries (SIC 3320)			
Scientific and technical personnel.....	3,570	3.3	(nc)
Managers of scientific and technical personnel .....	460	0.4	(nc)
Computer and information systems managers .....	150	0.1	9
Engineering managers .....	310	0.3	4
Scientists .....	240	0.2	(nc)
Computer scientists .....	210	0.2	(nc)
Computer software, applications .....	70	0.1	22
Computer systems analysts .....	60	0.1	13
Network and computer systems administrators .....	80	0.1	23
Physical scientists .....	30	<	(nc)
Materials scientists .....	30	<	14
Engineers .....	2,020	1.9	(nc)
Electrical/electronics .....	50	0.1	(nc)
Electrical .....	50	0.1	13
Industrial .....	820	0.8	5
Mechanical .....	350	0.3	7
Sales .....	150	0.1	16
Other engineers .....	650	0.6	(nc)
Environmental .....	80	0.1	10
Metallurgical/metallurgists .....	430	0.4	8
Safety .....	140	0.1	6
Technicians .....	850	0.8	(nc)
Computer, numerical tool, and process control programmers .....	180	0.2	(nc)
Computer programmers .....	100	0.1	12
Numerical tool and process control programmers .....	80	0.1	20
Drafters .....	160	0.2	(nc)
Architectural and civil drafters .....	40	<	14
Mechanical drafters .....	120	0.1	11
Engineering technicians .....	410	0.4	(nc)
Electrical/electronics engineering technicians .....	80	0.1	14
Industrial engineering technicians .....	220	0.2	11
Mechanical engineering technicians .....	110	0.1	15
Physical and life science technicians .....	100	0.1	(nc)
Chemical technicians, except health .....	100	0.1	23
Primary nonferrous metals (SIC 3330)			
Scientific and technical personnel.....	2,010	6.9	(nc)
Managers of scientific and technical personnel .....	130	0.4	(nc)
Computer and information systems managers .....	30	0.1	16
Engineering managers .....	100	0.3	11

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Primary nonferrous metals (SIC 3330) -- continued:			
Scientists .....	370	1.3	(nc)
Computer scientists .....	110	0.4	(nc)
Computer systems analysts .....	70	0.2	14
Network and computer systems administrators .....	40	0.1	14
Physical scientists .....	260	0.9	(nc)
Chemists .....	260	0.9	15
Engineers .....	740	2.6	(nc)
Computer .....	30	0.1	26
Electrical/electronics .....	90	0.3	(nc)
Electrical .....	90	0.3	21
Industrial .....	110	0.4	15
Mechanical .....	130	0.5	14
Sales .....	50	0.2	22
Other engineers .....	330	1.1	(nc)
Chemical .....	110	0.4	18
Environmental .....	60	0.2	16
Metallurgical/metallurgists .....	120	0.4	11
Safety .....	40	0.1	12
Technicians .....	770	2.6	(nc)
Computer, numerical tool, and process control programmers .....	50	0.2	(nc)
Computer programmers .....	50	0.2	10
Drafters .....	70	0.2	(nc)
Mechanical drafters .....	70	0.2	19
Engineering technicians .....	420	1.4	(nc)
Electrical/electronics engineering technicians .....	70	0.2	27
Industrial engineering technicians .....	70	0.2	14
Mechanical engineering technicians .....	280	1.0	30
Physical and life science technicians .....	230	0.8	(nc)
Chemical technicians, except health .....	230	0.8	16
Secondary nonferrous metals (SIC 3340)			
Scientific and technical personnel.....	350	2.4	(nc)
Scientists .....	100	0.7	(nc)
Physical scientists .....	100	0.7	(nc)
Chemists .....	100	0.7	13
Engineers .....	100	0.7	(nc)
Industrial .....	40	0.3	15
Other engineers .....	60	0.4	(nc)
Metallurgical/metallurgists .....	60	0.4	9
Technicians .....	150	1.0	(nc)
Physical and life science technicians .....	150	1.0	(nc)
Chemical technicians, except health .....	100	0.7	7
Environmental science and protection technicians, including health .....	50	0.3	27

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Nonferrous rolling and drawing (SIC 3350)			
Scientific and technical personnel.....	9,070	6.0	(nc)
Managers of scientific and technical personnel .....	1,120	0.7	(nc)
Computer and information systems managers .....	390	0.3	5
Engineering managers .....	670	0.4	4
Natural sciences managers .....	60	<	17
Scientists .....	1,220	0.8	(nc)
Computer scientists .....	860	0.6	(nc)
Computer software, applications .....	140	0.1	12
Computer systems analysts .....	430	0.3	7
Network and computer systems administrators .....	230	0.2	6
Network systems/data communications analysts .....	60	<	8
Physical scientists .....	360	0.2	(nc)
Chemists .....	190	0.1	12
Materials scientists .....	170	0.1	13
Engineers .....	3,750	2.5	(nc)
Electrical/electronics .....	730	0.5	(nc)
Electrical .....	450	0.3	11
Electronics .....	280	0.2	12
Industrial .....	1,170	0.8	5
Mechanical .....	860	0.6	7
Sales .....	180	0.1	10
Other engineers .....	810	0.5	(nc)
Chemical .....	60	<	9
Environmental .....	110	0.1	6
Metallurgical/metallurgists .....	500	0.3	8
Safety .....	140	0.1	6
Technicians .....	2,980	2.0	(nc)
Computer, numerical tool, and process control programmers .....	420	0.3	(nc)
Computer programmers .....	310	0.2	10
Numerical tool and process control programmers .....	110	0.1	21
Drafters .....	420	0.3	(nc)
Architectural and civil drafters .....	50	<	18
Electrical and electronics drafters .....	40	<	11
Mechanical drafters .....	330	0.2	12
Engineering technicians .....	1,440	1.0	(nc)
Electronical/electronics engineering technicians .....	520	0.3	8
Electro-mechanical technicians .....	120	0.1	19
Environmental engineering technicians .....	50	<	17
Industrial engineering technicians .....	480	0.3	15
Mechanical engineering technicians .....	270	0.2	14
Physical and life science technicians .....	700	0.5	(nc)
Chemical technicians, except health .....	650	0.4	20
Environmental science and protection technicians, including health .....	50	<	20

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Nonferrous foundries (castings) (SIC 3360)			
Scientific and technical personnel.....	2,680	3.2	(nc)
Managers of scientific and technical personnel .....	360	0.4	(nc)
Computer and information systems managers .....	80	0.1	8
Engineering managers .....	280	0.3	7
Scientists .....	70	0.1	(nc)
Computer scientists .....	70	0.1	(nc)
Network and computer systems administrators .....	70	0.1	15
Engineers .....	1,390	1.7	(nc)
Electrical/electronics .....	40	0.1	(nc)
Electrical .....	40	0.1	15
Industrial .....	500	0.6	8
Mechanical .....	540	0.7	6
Sales .....	90	0.1	19
Other engineers .....	220	0.3	(nc)
Metallurgical/metallurgists .....	180	0.2	12
Safety .....	40	0.1	9
Technicians .....	860	1.0	(nc)
Computer, numerical tool, and process control programmers .....	300	0.4	(nc)
Computer programmers .....	60	0.1	16
Numerical tool and process control programmers .....	240	0.3	16
Drafters .....	220	0.3	(nc)
Mechanical drafters .....	220	0.3	17
Engineering technicians .....	340	0.4	(nc)
Industrial engineering technicians .....	260	0.3	8
Mechanical engineering technicians .....	80	0.1	15
Miscellaneous primary metal products (SIC 3390)			
Scientific and technical personnel.....	880	3.5	(nc)
Managers of scientific and technical personnel .....	150	0.6	(nc)
Computer and information systems managers .....	30	0.1	16
Engineering managers .....	120	0.5	22
Scientists .....	50	0.2	(nc)
Physical scientists .....	50	0.2	(nc)
Chemists .....	50	0.2	20
Engineers .....	390	1.5	(nc)
Industrial .....	120	0.5	9
Mechanical .....	80	0.3	11
Sales .....	40	0.2	21
Other engineers .....	150	0.6	(nc)
Metallurgical/metallurgists .....	150	0.6	12

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Miscellaneous primary metal products (SIC 3390) -- continued:			
Technicians .....	290	1.1	(nc)
Engineering technicians .....	160	0.6	(nc)
Electro-mechanical technicians .....	40	0.2	25
Industrial engineering technicians .....	120	0.5	21
Physical and life science technicians .....	130	0.5	(nc)
Chemical technicians, except health .....	130	0.5	18
Metal cans and shipping containers (SIC 3410)			
Scientific and technical personnel.....	720	2.2	(nc)
Managers of scientific and technical personnel .....	170	0.5	(nc)
Engineering managers .....	170	0.5	21
Scientists .....	30	0.1	(nc)
Physical scientists .....	30	0.1	(nc)
Materials scientists .....	30	0.1	31
Engineers .....	370	1.1	(nc)
Electrical/electronics .....	30	0.1	(nc)
Electrical .....	30	0.1	21
Industrial .....	120	0.4	16
Mechanical .....	180	0.6	29
Other engineers .....	40	0.1	(nc)
Environmental .....	40	0.1	20
Technicians .....	150	0.5	(nc)
Engineering technicians .....	150	0.5	(nc)
Electrical/electronics engineering technicians .....	100	0.3	13
Industrial engineering technicians .....	50	0.2	12
Cutlery, hand tools, and hardware (SIC 3420)			
Scientific and technical personnel.....	4,400	4.2	(nc)
Managers of scientific and technical personnel .....	690	0.7	(nc)
Computer and information systems managers .....	230	0.2	9
Engineering managers .....	460	0.4	7
Scientists .....	410	0.4	(nc)
Computer scientists .....	380	0.4	(nc)
Computer software, applications .....	90	0.1	15
Computer systems analysts .....	120	0.1	9
Network and computer systems administrators .....	130	0.1	7
Network systems/data communications analysts .....	40	<	12
Social scientists .....	30	<	(nc)
Market research analysts .....	30	<	14

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Cutlery, hand tools, and hardware (SIC 3420) -- continued:			
Engineers .....	1,950	1.9	(nc)
Electrical/electronics .....	80	0.1	(nc)
Electrical .....	40	<	16
Electronics .....	40	<	24
Industrial .....	740	0.7	12
Mechanical .....	810	0.8	4
Sales .....	80	0.1	19
Other engineers .....	240	0.2	(nc)
Environmental .....	30	<	10
Metallurgical/metallurgists .....	160	0.2	18
Safety .....	50	0.1	10
Technicians .....	1,350	1.3	(nc)
Computer, numerical tool, and process control programmers .....	400	0.4	(nc)
Computer programmers .....	200	0.2	17
Numerical tool and process control programmers .....	200	0.2	4
Drafters .....	410	0.4	(nc)
Mechanical drafters .....	410	0.4	7
Engineering technicians .....	540	0.5	(nc)
Electrical/electronics engineering technicians .....	80	0.1	15
Electro-mechanical technicians .....	50	0.1	36
Industrial engineering technicians .....	150	0.1	9
Mechanical engineering technicians .....	260	0.3	7
Plumbing and heating, except electric (SIC 3430)			
Scientific and technical personnel.....	2,540	4.5	(nc)
Managers of scientific and technical personnel .....	370	0.7	(nc)
Computer and information systems managers .....	110	0.2	7
Engineering managers .....	260	0.5	5
Scientists .....	190	0.3	(nc)
Computer scientists .....	140	0.2	(nc)
Computer systems analysts .....	70	0.1	4
Network and computer systems administrators .....	70	0.1	8
Social scientists .....	50	0.1	(nc)
Market research analysts .....	50	0.1	10
Engineers .....	1,000	1.8	(nc)
Electrical/electronics .....	50	0.1	(nc)
Electrical .....	50	0.1	8
Industrial .....	440	0.8	12
Mechanical .....	400	0.7	5
Sales .....	60	0.1	12
Other engineers .....	50	0.1	(nc)
Metallurgical/metallurgists .....	50	0.1	7

See explanatory information and SOURCE at end of table.



Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Plumbing and heating, except electric (SIC 3430) -- continued:			
Technicians .....	980	1.7	(nc)
Computer, numerical tool, and process control programmers .....	130	0.2	(nc)
Computer programmers .....	70	0.1	7
Numerical tool and process control programmers .....	60	0.1	11
Drafters .....	330	0.6	(nc)
Electrical and electronics drafters .....	50	0.1	15
Mechanical drafters .....	280	0.5	6
Engineering technicians .....	520	0.9	(nc)
Electrical/electronics engineering technicians .....	70	0.1	17
Electro-mechanical technicians .....	100	0.2	3
Environmental engineering technicians .....	40	0.1	24
Industrial engineering technicians .....	150	0.3	4
Mechanical engineering technicians .....	160	0.3	11
Fabricated structural metal products (SIC 3440)			
Scientific and technical personnel.....	23,180	4.9	(nc)
Managers of scientific and technical personnel .....	2,780	0.6	(nc)
Computer and information systems managers .....	670	0.1	5
Engineering managers .....	2,110	0.5	6
Scientists .....	1,290	0.3	(nc)
Computer scientists .....	1,100	0.2	(nc)
Computer software, applications .....	270	0.1	13
Computer software, systems .....	40	<	32
Computer systems analysts .....	290	0.1	10
Network and computer systems administrators .....	380	0.1	16
Network systems/data communications analysts .....	120	<	20
Social scientists .....	190	<	(nc)
Market research analysts .....	190	<	18
Engineers .....	7,540	1.6	(nc)
Civil .....	900	0.2	11
Computer .....	40	<	49
Electrical/electronics .....	260	0.1	(nc)
Electrical .....	260	0.1	18
Industrial .....	2,100	0.4	6
Mechanical .....	2,760	0.6	4
Sales .....	650	0.1	7
Other engineers .....	830	0.2	(nc)
Chemical .....	80	<	16
Environmental .....	40	<	8
Metallurgical/metallurgists .....	510	0.1	14
Safety .....	200	<	7

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Fabricated structural metal products (SIC 3440) -- continued:			
Technicians .....	11,570	2.5	(nc)
Computer, numerical tool, and process control programmers .....	1,410	0.3	(nc)
Computer programmers .....	680	0.1	13
Numerical tool and process control programmers .....	730	0.2	10
Drafters .....	8,060	1.7	(nc)
Architectural and civil drafters .....	3,590	0.8	9
Electrical and electronics drafters .....	270	0.1	18
Mechanical drafters .....	4,200	0.9	5
Engineering technicians .....	2,010	0.4	(nc)
Civil engineering technicians .....	70	<	25
Electrical/electronics engineering technicians .....	180	<	10
Electro-mechanical technicians .....	240	0.1	19
Environmental engineering technicians .....	30	<	22
Industrial engineering technicians .....	1,080	0.2	12
Mechanical engineering technicians .....	410	0.1	9
Physical and life science technicians .....	30	<	(nc)
Environmental science and protection technicians, including health .....	30	<	11
Surveying, cartographic, photogrammetric, and mapping technicians .....	60	<	(nc)
Surveying and mapping technicians .....	60	<	40
Screw machine products, bolts, etc. (SIC 3450)			
Scientific and technical personnel.....	2,920	3.2	(nc)
Managers of scientific and technical personnel .....	450	0.5	(nc)
Computer and information systems managers .....	140	0.2	18
Engineering managers .....	310	0.3	8
Scientists .....	160	0.2	(nc)
Computer scientists .....	160	0.2	(nc)
Computer systems analysts .....	80	0.1	10
Network and computer systems administrators .....	80	0.1	8
Engineers .....	1,380	1.5	(nc)
Industrial .....	530	0.6	7
Mechanical .....	600	0.7	5
Sales .....	100	0.1	9
Other engineers .....	150	0.2	(nc)
Metallurgical/metallurgists .....	150	0.2	14
Technicians .....	930	1.0	(nc)
Computer, numerical tool, and process control programmers .....	410	0.5	(nc)
Computer programmers .....	90	0.1	13
Numerical tool and process control programmers .....	320	0.4	13
Drafters .....	200	0.2	(nc)
Mechanical drafters .....	200	0.2	9
Engineering technicians .....	320	0.3	(nc)
Electrical/electronics engineering technicians .....	50	0.1	29
Industrial engineering technicians .....	120	0.1	18
Mechanical engineering technicians .....	150	0.2	11

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Metal forgings and stampings (SIC 3460)			
Scientific and technical personnel.....	9,080	4.2	(nc)
Managers of scientific and technical personnel .....	1,270	0.6	(nc)
Computer and information systems managers .....	340	0.2	6
Engineering managers .....	930	0.4	7
Scientists .....	470	0.2	(nc)
Computer scientists .....	470	0.2	(nc)
Computer software, applications .....	80	<	10
Computer systems analysts .....	170	0.1	10
Network and computer systems administrators .....	180	0.1	7
Network systems/data communications analysts .....	40	<	15
Engineers .....	4,690	2.2	(nc)
Computer .....	90	<	48
Electrical/electronics .....	230	0.1	(nc)
Electrical .....	190	0.1	29
Electronics .....	40	<	20
Industrial .....	2,030	0.9	10
Mechanical .....	1,680	0.8	7
Sales .....	270	0.1	10
Other engineers .....	390	0.2	(nc)
Environmental .....	40	<	25
Metallurgical/metallurgists .....	240	0.1	6
Safety .....	110	0.1	9
Technicians .....	2,650	1.2	(nc)
Computer, numerical tool, and process control programmers .....	680	0.3	(nc)
Computer programmers .....	250	0.1	7
Numerical tool and process control programmers .....	430	0.2	6
Drafters .....	940	0.4	(nc)
Electrical and electronics drafters .....	40	<	20
Mechanical drafters .....	900	0.4	8
Engineering technicians .....	1,030	0.5	(nc)
Electrical/electronics engineering technicians .....	120	0.1	12
Electro-mechanical technicians .....	50	<	18
Industrial engineering technicians .....	480	0.2	18
Mechanical engineering technicians .....	380	0.2	17
Metal services, n.e.c. (SIC 3470)			
Scientific and technical personnel.....	2,570	2.0	(nc)
Managers of scientific and technical personnel .....	280	0.2	(nc)
Computer and information systems managers .....	100	0.1	8
Engineering managers .....	180	0.1	8

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Metal services, n.e.c. (SIC 3470) -- continued:			
Scientists .....	310	0.2	(nc)
Computer scientists .....	80	0.1	(nc)
Computer systems analysts .....	40	<	15
Network and computer systems administrators .....	40	<	9
Physical scientists .....	230	0.2	(nc)
Chemists .....	230	0.2	8
Engineers .....	1,150	0.9	(nc)
Electrical/electronics .....	50	<	(nc)
Electrical .....	50	<	14
Industrial .....	330	0.3	9
Mechanical .....	340	0.3	18
Sales .....	70	0.1	8
Other engineers .....	360	0.3	(nc)
Chemical .....	110	0.1	43
Environmental .....	70	0.1	13
Metallurgical/metallurgists .....	110	0.1	12
Safety .....	70	0.1	10
Technicians .....	830	0.6	(nc)
Computer, numerical tool, and process control programmers .....	100	0.1	(nc)
Computer programmers .....	60	0.1	12
Numerical tool and process control programmers .....	40	<	20
Drafters .....	60	0.1	(nc)
Mechanical drafters .....	60	0.1	16
Engineering technicians .....	380	0.3	(nc)
Electrical/electronics engineering technicians .....	50	<	23
Electro-mechanical technicians .....	30	<	25
Environmental engineering technicians .....	120	0.1	14
Industrial engineering technicians .....	100	0.1	13
Mechanical engineering technicians .....	80	0.1	15
Physical and life science technicians .....	290	0.2	(nc)
Chemical technicians, except health .....	220	0.2	7
Environmental science and protection technicians, including health .....	70	0.1	14
Ordnance and accessories, n.e.c. (SIC 3480)			
Scientific and technical personnel .....	4,510	11.5	(nc)
Managers of scientific and technical personnel .....	580	1.5	(nc)
Computer and information systems managers .....	150	0.4	10
Engineering managers .....	430	1.1	9
Scientists .....	570	1.5	(nc)
Computer scientists .....	530	1.4	(nc)
Computer software, applications .....	190	0.5	35
Computer systems analysts .....	270	0.7	23
Network and computer systems administrators .....	70	0.2	3
Social scientists .....	40	0.1	(nc)
Market research analysts .....	40	0.1	24

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Ordnance and accessories, n.e.c. (SIC 3480) -- continued:			
Engineers .....	2,120	5.4	(nc)
Electrical/electronics .....	220	0.6	(nc)
Electronics .....	220	0.6	6
Industrial .....	540	1.4	7
Mechanical .....	1,210	3.1	28
Other engineers .....	150	0.4	(nc)
Environmental .....	150	0.4	3
Technicians .....	1,240	3.2	(nc)
Computer, numerical tool, and process control programmers .....	270	0.7	(nc)
Numerical tool and process control programmers .....	270	0.7	29
Drafters .....	110	0.3	(nc)
Mechanical drafters .....	110	0.3	7
Engineering technicians .....	860	2.2	(nc)
Electrical/electronics engineering technicians .....	290	0.7	3
Electro-mechanical technicians .....	30	0.1	<
Industrial engineering technicians .....	240	0.6	6
Mechanical engineering technicians .....	300	0.8	6
Misc. fabricated metal products (SIC 3490)			
Scientific and technical personnel .....	12,080	4.8	(nc)
Managers of scientific and technical personnel .....	1,640	0.6	(nc)
Computer and information systems managers .....	430	0.2	4
Engineering managers .....	1,210	0.5	3
Scientists .....	950	0.4	(nc)
Computer scientists .....	800	0.3	(nc)
Computer software, applications .....	150	0.1	12
Computer systems analysts .....	270	0.1	5
Network and computer systems administrators .....	300	0.1	6
Network systems/data communications analysts .....	80	<	11
Physical scientists .....	60	<	(nc)
Chemists .....	60	<	20
Social scientists .....	90	<	(nc)
Market research analysts .....	90	<	8

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Misc. fabricated metal products (SIC 3490) -- continued:			
Engineers .....	5,410	2.1	(nc)
Civil .....	90	<	49
Computer .....	30	<	20
Electrical/electronics .....	250	0.1	(nc)
Electrical .....	150	0.1	8
Electronics .....	100	<	13
Industrial .....	1,760	0.7	5
Mechanical .....	2,230	0.9	3
Sales .....	510	0.2	13
Other engineers .....	540	0.2	(nc)
Chemical .....	40	<	12
Environmental .....	60	<	12
Metallurgical/metallurgists .....	330	0.1	7
Safety .....	110	<	5
Technicians .....	4,080	1.6	(nc)
Computer, numerical tool, and process control programmers .....	960	0.4	(nc)
Computer programmers .....	370	0.1	8
Numerical tool and process control programmers .....	590	0.2	11
Drafters .....	1,420	0.6	(nc)
Architectural and civil drafters .....	40	<	14
Electrical and electronics drafters .....	50	<	12
Mechanical drafters .....	1,330	0.5	5
Engineering technicians .....	1,570	0.6	(nc)
Electrical/electronics engineering technicians .....	270	0.1	11
Electro-mechanical technicians .....	170	0.1	13
Environmental engineering technicians .....	40	<	28
Industrial engineering technicians .....	590	0.2	8
Mechanical engineering technicians .....	500	0.2	6
Physical and life science technicians .....	130	0.1	(nc)
Chemical technicians, except health .....	90	<	20
Environmental science and protection technicians, including health .....	40	<	21
Engines and turbines (SIC 3510)			
Scientific and technical personnel.....	10,130	12.3	(nc)
Managers of scientific and technical personnel .....	1,050	1.3	(nc)
Computer and information systems managers .....	110	0.1	18
Engineering managers .....	940	1.1	15
Scientists .....	620	0.8	(nc)
Computer scientists .....	620	0.8	(nc)
Computer software, applications .....	170	0.2	38
Computer software, systems .....	140	0.2	22
Computer systems analysts .....	270	0.3	29
Network and computer systems administrators .....	40	0.1	24

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Engines and turbines (SIC 3510) -- continued:			
Engineers .....	6,360	7.7	(nc)
Electrical/electronics .....	330	0.4	(nc)
Electrical .....	270	0.3	27
Electronics .....	60	0.1	10
Industrial .....	1,550	1.9	17
Mechanical .....	3,840	4.6	21
Sales .....	210	0.3	12
Other engineers .....	430	0.5	(nc)
Metallurgical/metallurgists .....	330	0.4	24
Safety .....	100	0.1	23
Technicians .....	2,100	2.5	(nc)
Computer, numerical tool, and process control programmers .....	300	0.4	(nc)
Computer programmers .....	70	0.1	20
Numerical tool and process control programmers .....	230	0.3	8
Drafters .....	630	0.8	(nc)
Electrical and electronics drafters .....	30	<	20
Mechanical drafters .....	600	0.7	22
Engineering technicians .....	1,170	1.4	(nc)
Electrical/electronics engineering technicians .....	230	0.3	34
Electro-mechanical technicians .....	80	0.1	33
Industrial engineering technicians .....	430	0.5	29
Mechanical engineering technicians .....	430	0.5	25
Farm and garden machinery (SIC 3520)			
Scientific and technical personnel.....	5,920	6.7	(nc)
Managers of scientific and technical personnel .....	710	0.8	(nc)
Computer and information systems managers .....	190	0.2	18
Engineering managers .....	520	0.6	10
Scientists .....	210	0.2	(nc)
Computer scientists .....	100	0.1	(nc)
Computer software, applications .....	70	0.1	23
Network systems/data communications analysts .....	30	<	26
Social scientists .....	110	0.1	(nc)
Market research analysts .....	110	0.1	47
Engineers .....	2,110	2.4	(nc)
Electrical/electronics .....	40	0.1	(nc)
Electronics .....	40	0.1	23
Industrial .....	560	0.6	12
Mechanical .....	1,150	1.3	12
Sales .....	80	0.1	15
Other engineers .....	280	0.3	(nc)
Agricultural .....	50	0.1	20
Chemical .....	100	0.1	40
Metallurgical/metallurgists .....	100	0.1	23
Safety .....	30	<	10

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Farm and garden machinery (SIC 3520) -- continued:			
Technicians .....	2,890	3.3	(nc)
Computer, numerical tool, and process control programmers .....	1,350	1.5	(nc)
Computer programmers .....	120	0.1	13
Numerical tool and process control programmers .....	1,230	1.4	50
Drafters .....	680	0.8	(nc)
Electrical and electronics drafters .....	60	0.1	35
Mechanical drafters .....	620	0.7	10
Engineering technicians .....	860	1.0	(nc)
Electrical/electronics engineering technicians .....	190	0.2	25
Electro-mechanical technicians .....	70	0.1	23
Industrial engineering technicians .....	240	0.3	9
Mechanical engineering technicians .....	360	0.4	9
Construction and related machinery (SIC 3530)			
Scientific and technical personnel.....	24,000	11.0	(nc)
Managers of scientific and technical personnel .....	2,780	1.3	(nc)
Computer and information systems managers .....	730	0.3	11
Engineering managers .....	2,050	0.9	5
Scientists .....	1,400	0.7	(nc)
Computer scientists .....	1,320	0.6	(nc)
Computer and information scientists, research .....	40	<	23
Computer software, applications .....	290	0.1	8
Computer software, systems .....	230	0.1	18
Computer systems analysts .....	660	0.3	10
Network and computer systems administrators .....	100	0.1	13
Social scientists .....	80	<	(nc)
Market research analysts .....	80	<	11
Engineers .....	12,780	5.9	(nc)
Civil .....	60	<	36
Computer .....	100	0.1	17
Electrical/electronics .....	1,110	0.5	(nc)
Electrical .....	920	0.4	8
Electronics .....	190	0.1	14
Industrial .....	2,420	1.1	7
Mechanical .....	7,480	3.4	5
Sales .....	1,080	0.5	7
Other engineers .....	530	0.2	(nc)
Chemical .....	80	<	36
Metallurgical/metallurgists .....	330	0.2	10
Safety .....	120	0.1	6

See explanatory information and SOURCE at end of table.



Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Construction and related machinery (SIC 3530) -- continued:			
Technicians .....	7,040	3.2	(nc)
Computer, numerical tool, and process control programmers .....	1,060	0.5	(nc)
Computer programmers .....	490	0.2	8
Numerical tool and process control programmers .....	570	0.3	10
Drafters .....	3,190	1.5	(nc)
Electrical and electronics drafters .....	250	0.1	12
Mechanical drafters .....	2,940	1.4	6
Engineering technicians .....	2,640	1.2	(nc)
Electrical/electronics engineering technicians .....	540	0.3	9
Electro-mechanical technicians .....	210	0.1	10
Industrial engineering technicians .....	960	0.4	13
Mechanical engineering technicians .....	930	0.4	10
Physical and life science technicians .....	150	0.1	(nc)
Chemical technicians, except health .....	100	0.1	10
Geological and petroleum technicians .....	50	<	26
Metalworking machinery (SIC 3540)			
Scientific and technical personnel.....	25,280	9.0	(nc)
Managers of scientific and technical personnel .....	2,300	0.8	(nc)
Computer and information systems managers .....	640	0.2	8
Engineering managers .....	1,660	0.6	5
Scientists .....	1,350	0.5	(nc)
Computer scientists .....	1,240	0.4	(nc)
Computer software, applications .....	620	0.2	18
Computer software, systems .....	250	0.1	12
Computer systems analysts .....	280	0.1	6
Network and computer systems administrators .....	90	<	13
Physical scientists .....	40	<	(nc)
Materials scientists .....	40	<	34
Social scientists .....	70	<	(nc)
Market research analysts .....	70	<	11
Engineers .....	11,260	4.0	(nc)
Computer .....	130	0.1	33
Electrical/electronics .....	1,430	0.5	(nc)
Electrical .....	1,010	0.4	7
Electronics .....	420	0.2	17
Industrial .....	1,840	0.7	9
Mechanical .....	6,020	2.1	4
Sales .....	1,530	0.5	11
Other engineers .....	310	0.1	(nc)
Metallurgical/metallurgists .....	240	0.1	10
Safety .....	70	<	7

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Metalworking machinery (SIC 3540) -- continued:			
Technicians .....	10,370	3.7	(nc)
Computer, numerical tool, and process control programmers .....	4,040	1.4	(nc)
Computer programmers .....	920	0.3	8
Numerical tool and process control programmers .....	3,120	1.1	6
Drafters .....	4,410	1.6	(nc)
Electrical and electronics drafters .....	270	0.1	16
Mechanical drafters .....	4,140	1.5	7
Engineering technicians .....	1,890	0.7	(nc)
Electrical/electronics engineering technicians .....	540	0.2	10
Electro-mechanical technicians .....	230	0.1	16
Industrial engineering technicians .....	480	0.2	8
Mechanical engineering technicians .....	640	0.2	16
Physical and life science technicians .....	30	<	(nc)
Chemical technicians, except health .....	30	<	26
Special industry machinery (SIC 3550)			
Scientific and technical personnel.....	24,990	17.1	(nc)
Managers of scientific and technical personnel .....	2,890	2.0	(nc)
Computer and information systems managers .....	510	0.4	7
Engineering managers .....	2,380	1.6	10
Scientists .....	2,340	1.6	(nc)
Computer scientists .....	2,050	1.4	(nc)
Computer and information scientists, research .....	30	<	16
Computer software, applications .....	900	0.6	8
Computer software, systems .....	650	0.4	15
Computer systems analysts .....	340	0.2	14
Network and computer systems administrators .....	80	0.1	17
Network systems/data communications analysts .....	50	<	32
Mathematical scientists .....	70	0.1	(nc)
Operations and systems researchers and analysts .....	70	0.1	7
Physical scientists .....	120	0.1	(nc)
Materials scientists .....	120	0.1	29
Social scientists .....	100	0.1	(nc)
Market research analysts .....	100	0.1	12
Engineers .....	11,900	8.1	(nc)
Computer .....	190	0.1	14
Electrical/electronics .....	2,920	2.0	(nc)
Electrical .....	2,030	1.4	7
Electronics .....	890	0.6	25
Industrial .....	1,500	1.0	6
Mechanical .....	5,560	3.8	5
Sales .....	1,270	0.9	6
Other engineers .....	460	0.3	(nc)
Chemical .....	120	0.1	27
Metallurgical/metallurgists .....	270	0.2	14
Safety .....	70	0.1	11

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Special industry machinery (SIC 3550) -- continued:			
Technicians .....	7,860	5.4	(nc)
Computer, numerical tool, and process control programmers .....	1,020	0.7	(nc)
Computer programmers .....	530	0.4	10
Numerical tool and process control programmers .....	490	0.3	12
Drafters .....	2,820	1.9	(nc)
Electrical and electronics drafters .....	610	0.4	26
Mechanical drafters .....	2,210	1.5	6
Engineering technicians .....	3,930	2.7	(nc)
Aerospace engineering and operations technicians .....	40	<	18
Electrical/electronics engineering technicians .....	1,560	1.1	8
Electro-mechanical technicians .....	640	0.4	23
Industrial engineering technicians .....	830	0.6	15
Mechanical engineering technicians .....	860	0.6	10
Physical and life science technicians .....	90	0.1	(nc)
Chemical technicians, except health .....	90	0.1	20
General industrial machinery (SIC 3560)			
Scientific and technical personnel.....	26,430	11.6	(nc)
Managers of scientific and technical personnel .....	3,090	1.4	(nc)
Computer and information systems managers .....	690	0.3	4
Engineering managers .....	2,400	1.1	7
Scientists .....	1,770	0.8	(nc)
Computer scientists .....	1,490	0.7	(nc)
Computer and information scientists, research .....	40	<	14
Computer software, applications .....	620	0.3	9
Computer software, systems .....	290	0.1	11
Computer systems analysts .....	440	0.2	9
Network and computer systems administrators .....	70	<	8
Network systems/data communications analysts .....	30	<	8
Mathematical scientists .....	40	<	(nc)
Operations and systems researchers and analysts .....	40	<	20
Physical scientists .....	50	<	(nc)
Materials scientists .....	50	<	21
Social scientists .....	190	0.1	(nc)
Market research analysts .....	190	0.1	12

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
General industrial machinery (SIC 3560) -- continued:			
Engineers .....	14,090	6.2	(nc)
Aeronautical .....	70	<	6
Civil .....	40	<	13
Computer .....	70	<	19
Electrical/electronics .....	2,150	1.0	(nc)
Electrical .....	1,560	0.7	9
Electronics .....	590	0.3	8
Industrial .....	3,290	1.4	15
Mechanical .....	5,670	2.5	3
Sales .....	2,180	1.0	5
Other engineers .....	620	0.3	(nc)
Chemical .....	140	0.1	11
Metallurgical/metallurgists .....	370	0.2	10
Safety .....	110	0.1	7
Technicians .....	7,480	3.3	(nc)
Computer, numerical tool, and process control programmers .....	1,270	0.6	(nc)
Computer programmers .....	540	0.2	4
Numerical tool and process control programmers .....	730	0.3	7
Drafters .....	2,850	1.3	(nc)
Electrical and electronics drafters .....	330	0.1	9
Mechanical drafters .....	2,520	1.1	3
Engineering technicians .....	3,240	1.4	(nc)
Electrical/electronics engineering technicians .....	1,000	0.4	7
Electro-mechanical technicians .....	340	0.2	11
Environmental engineering technicians .....	40	<	45
Industrial engineering technicians .....	650	0.3	6
Mechanical engineering technicians .....	1,210	0.5	10
Physical and life science technicians .....	120	0.1	(nc)
Chemical technicians, except health .....	90	<	14
Environmental science and protection technicians, including health .....	30	<	17
Computer and office equipment (SIC 3570)			
Scientific and technical personnel.....	118,650	37.2	(nc)
Managers of scientific and technical personnel .....	9,800	3.1	(nc)
Computer and information systems managers .....	3,620	1.1	8
Engineering managers .....	6,180	1.9	6
Scientists .....	55,100	17.3	(nc)
Computer scientists .....	51,470	16.1	(nc)
Computer and information scientists, research .....	640	0.2	30
Computer software, applications .....	13,470	4.2	12
Computer software, systems .....	27,950	8.8	10
Computer systems analysts .....	5,320	1.7	7
Network and computer systems administrators .....	1,220	0.4	8
Network systems/data communications analysts .....	2,870	0.9	19

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Computer and office equipment (SIC 3570) -- continued:			
Mathematical scientists .....	780	0.2	(nc)
Operations and systems researchers and analysts .....	780	0.2	14
Social scientists .....	2,850	0.9	(nc)
Market research analysts .....	2,850	0.9	11
Engineers .....			
Civil .....	200	0.1	41
Computer .....	11,110	3.5	7
Electrical/electronics .....	11,310	3.6	(nc)
Electrical .....	6,180	1.9	10
Electronics .....	5,130	1.6	14
Industrial .....	4,990	1.6	6
Mechanical .....	2,570	0.8	13
Sales .....	1,190	0.4	13
Other engineers .....	2,040	0.6	(nc)
Chemical .....	200	0.1	21
Environmental .....	880	0.3	46
Metallurgical/metallurgists .....	730	0.2	20
Safety .....	230	0.1	7
Technicians .....			
Computer, numerical tool, and process control programmers .....	20,340	6.4	(nc)
Computer programmers .....	10,350	3.2	(nc)
Numerical tool and process control programmers .....	10,280	3.2	11
Drafters .....	70	<	30
Electrical and electronics drafters .....	1,360	0.4	(nc)
Mechanical drafters .....	940	0.3	17
Engineering technicians .....	420	0.1	8
Electronical/electronics engineering technicians .....	8,500	2.7	(nc)
Electro-mechanical technicians .....	5,860	1.8	7
Industrial engineering technicians .....	1,080	0.3	14
Physical and life science technicians .....	1,560	0.5	13
Chemical technicians, except health .....	130	<	(nc)
Chemical technicians, except health .....	130	<	22
Refrigeration and service machinery (SIC 3580)			
Scientific and technical personnel.....	14,010	7.5	(nc)
Managers of scientific and technical personnel .....			
Computer and information systems managers .....	1,480	0.8	(nc)
Engineering managers .....	350	0.2	4
Engineering managers .....	1,130	0.6	6

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Refrigeration and service machinery (SIC 3580) -- continued:			
Scientists .....	830	0.4	(nc)
Computer scientists .....	680	0.4	(nc)
Computer software, applications .....	270	0.1	10
Computer systems analysts .....	350	0.2	8
Network and computer systems administrators .....	60	<	14
Physical scientists .....	60	<	(nc)
Chemists .....	60	<	24
Social scientists .....	90	0.1	(nc)
Market research analysts .....	90	0.1	12
Engineers .....	7,000	3.8	(nc)
Electrical/electronics .....	770	0.4	(nc)
Electrical .....	490	0.3	8
Electronics .....	280	0.2	13
Industrial .....	2,070	1.1	20
Mechanical .....	2,940	1.6	6
Sales .....	720	0.4	10
Other engineers .....	500	0.3	(nc)
Chemical .....	150	0.1	18
Metallurgical/metallurgists .....	180	0.1	13
Safety .....	170	0.1	6
Technicians .....	4,700	2.5	(nc)
Computer, numerical tool, and process control programmers .....	620	0.3	(nc)
Computer programmers .....	380	0.2	7
Numerical tool and process control programmers .....	240	0.1	12
Drafters .....	1,880	1.0	(nc)
Architectural and civil drafters .....	110	0.1	30
Electrical and electronics drafters .....	190	0.1	17
Mechanical drafters .....	1,580	0.9	5
Engineering technicians .....	2,100	1.1	(nc)
Electronical/electronics engineering technicians .....	300	0.2	7
Electro-mechanical technicians .....	100	0.1	12
Industrial engineering technicians .....	560	0.3	11
Mechanical engineering technicians .....	1,140	0.6	17
Physical and life science technicians .....	100	0.1	(nc)
Chemical technicians, except health .....	100	0.1	16
Industrial machinery, n.e.c. (SIC 3590)			
Scientific and technical personnel.....	17,660	5.3	(nc)
Managers of scientific and technical personnel .....	1,800	0.6	(nc)
Computer and information systems managers .....	450	0.1	5
Engineering managers .....	1,350	0.4	5

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Industrial machinery, n.e.c. (SIC 3590) -- continued:			
Scientists .....	670	0.2	(nc)
Computer scientists .....	570	0.2	(nc)
Computer and information scientists, research .....	70	<	31
Computer software, applications .....	220	0.1	18
Computer software, systems .....	80	<	11
Computer systems analysts .....	160	0.1	7
Network and computer systems administrators .....	40	<	10
Social scientists .....	100	<	(nc)
Market research analysts .....	100	<	19
Engineers .....	7,490	2.3	(nc)
Aeronautical .....	330	0.1	35
Computer .....	50	<	31
Electrical/electronics .....	580	0.2	(nc)
Electrical .....	370	0.1	10
Electronics .....	210	0.1	10
Industrial .....	1,850	0.6	7
Mechanical .....	3,550	1.1	6
Sales .....	690	0.2	10
Other engineers .....	440	0.1	(nc)
Chemical .....	30	<	18
Metallurgical/metallurgists .....	290	0.1	14
Safety .....	120	<	20
Technicians .....	7,700	2.3	(nc)
Computer, numerical tool, and process control programmers .....	3,870	1.2	(nc)
Computer programmers .....	640	0.2	8
Numerical tool and process control programmers .....	3,230	1.0	6
Drafters .....	1,590	0.5	(nc)
Electrical and electronics drafters .....	220	0.1	14
Mechanical drafters .....	1,370	0.4	7
Engineering technicians .....	2,080	0.6	(nc)
Aerospace engineering and operations technicians .....	80	<	21
Electronical/electronics engineering technicians .....	610	0.2	13
Electro-mechanical technicians .....	120	<	10
Industrial engineering technicians .....	490	0.2	14
Mechanical engineering technicians .....	780	0.2	12
Physical and life science technicians .....	160	0.1	(nc)
Chemical technicians, except health .....	160	0.1	31
Electric distribution equipment (SIC 3610)			
Scientific and technical personnel.....	9,990	13.3	(nc)
Managers of scientific and technical personnel .....	880	1.2	(nc)
Computer and information systems managers .....	240	0.3	7
Engineering managers .....	640	0.9	5

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Electric distribution equipment (SIC 3610) -- continued:			
Scientists .....	1,020	1.4	(nc)
Computer scientists .....	880	1.2	(nc)
Computer software, applications .....	200	0.3	7
Computer software, systems .....	260	0.4	11
Computer systems analysts .....	300	0.4	8
Network and computer systems administrators .....	120	0.2	10
Social scientists .....	140	0.2	(nc)
Market research analysts .....	140	0.2	14
Engineers .....	4,660	6.2	(nc)
Computer .....	40	0.1	27
Electrical/electronics .....	2,360	3.1	(nc)
Electrical .....	1,660	2.2	5
Electronics .....	700	0.9	17
Industrial .....	760	1.0	7
Mechanical .....	850	1.1	8
Sales .....	480	0.6	11
Other engineers .....	170	0.2	(nc)
Metallurgical/metallurgists .....	110	0.2	13
Safety .....	60	0.1	9
Technicians .....	3,430	4.6	(nc)
Computer, numerical tool, and process control programmers .....	290	0.4	(nc)
Computer programmers .....	180	0.2	10
Numerical tool and process control programmers .....	110	0.2	14
Drafters .....	1,070	1.4	(nc)
Electrical and electronics drafters .....	660	0.9	8
Mechanical drafters .....	410	0.5	7
Engineering technicians .....	2,070	2.8	(nc)
Electrical/electronics engineering technicians .....	1,430	1.9	8
Electro-mechanical technicians .....	240	0.3	13
Industrial engineering technicians .....	200	0.3	8
Mechanical engineering technicians .....	200	0.3	13
Electrical industrial apparatus (SIC 3620)			
Scientific and technical personnel.....	17,870	13.7	(nc)
Managers of scientific and technical personnel .....	1,470	1.1	(nc)
Computer and information systems managers .....	320	0.2	6
Engineering managers .....	1,150	0.9	4
Scientists .....	1,560	1.2	(nc)
Computer scientists .....	1,290	1.0	(nc)
Computer software, applications .....	570	0.4	10
Computer software, systems .....	240	0.2	19
Computer systems analysts .....	200	0.2	23
Network and computer systems administrators .....	170	0.1	6
Network systems/data communications analysts .....	110	0.1	23

See explanatory information and SOURCE at end of table.



Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Electrical industrial apparatus (SIC 3620) -- continued:			
Social scientists .....	270	0.2	(nc)
Market research analysts .....	270	0.2	28
Engineers .....	8,750	6.7	(nc)
Aeronautical .....	50	<	23
Computer .....	110	0.1	13
Electrical/electronics .....	4,310	3.3	(nc)
Electrical .....	3,170	2.4	6
Electronics .....	1,140	0.9	11
Industrial .....	1,420	1.1	5
Mechanical .....	1,580	1.2	5
Sales .....	1,040	0.8	14
Other engineers .....	240	0.2	(nc)
Chemical .....	60	0.1	23
Environmental .....	40	<	11
Metallurgical/metallurgists .....	70	0.1	11
Safety .....	70	0.1	11
Technicians .....	6,090	4.7	(nc)
Computer, numerical tool, and process control programmers .....	490	0.4	(nc)
Computer programmers .....	260	0.2	8
Numerical tool and process control programmers .....	230	0.2	7
Drafters .....	1,450	1.1	(nc)
Electrical and electronics drafters .....	970	0.7	6
Mechanical drafters .....	480	0.4	7
Engineering technicians .....	4,080	3.1	(nc)
Aerospace engineering and operations technicians .....	40	<	32
Electronical/electronics engineering technicians .....	2,630	2.0	7
Electro-mechanical technicians .....	300	0.2	12
Industrial engineering technicians .....	630	0.5	6
Mechanical engineering technicians .....	480	0.4	10
Physical and life science technicians .....	70	0.1	(nc)
Chemical technicians, except health .....	70	0.1	13
Household appliances (SIC 3630)			
Scientific and technical personnel.....	4,010	3.8	(nc)
Managers of scientific and technical personnel .....	590	0.6	(nc)
Computer and information systems managers .....	250	0.2	13
Engineering managers .....	340	0.3	17
Scientists .....	310	0.3	(nc)
Computer scientists .....	190	0.2	(nc)
Computer software, applications .....	40	<	15
Network and computer systems administrators .....	80	0.1	12
Network systems/data communications analysts .....	70	0.1	23
Social scientists .....	120	0.1	(nc)
Market research analysts .....	120	0.1	22

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Household appliances (SIC 3630) -- continued:			
Engineers .....	1,950	1.9	(nc)
Electrical/electronics .....	210	0.2	(nc)
Electrical .....	180	0.2	8
Electronics .....	30	<	18
Industrial .....	950	0.9	23
Mechanical .....	590	0.6	15
Other engineers .....	200	0.2	(nc)
Environmental .....	60	0.1	41
Metallurgical/metallurgists .....	90	0.1	28
Safety .....	50	0.1	16
Technicians .....	1,160	1.1	(nc)
Computer, numerical tool, and process control programmers .....	250	0.2	(nc)
Computer programmers .....	120	0.1	19
Numerical tool and process control programmers .....	130	0.1	32
Drafters .....	230	0.2	(nc)
Electrical and electronics drafters .....	50	0.1	21
Mechanical drafters .....	180	0.2	17
Engineering technicians .....	680	0.7	(nc)
Electrical/electronics engineering technicians .....	220	0.2	34
Electro-mechanical technicians .....	50	0.1	18
Industrial engineering technicians .....	270	0.3	15
Mechanical engineering technicians .....	140	0.1	16
Electric lighting and wiring equipment (SIC 3640)			
Scientific and technical personnel.....	10,880	6.8	(nc)
Managers of scientific and technical personnel .....	1,250	0.8	(nc)
Computer and information systems managers .....	380	0.2	6
Engineering managers .....	870	0.5	4
Scientists .....	1,420	0.9	(nc)
Computer scientists .....	1,110	0.7	(nc)
Computer software, applications .....	340	0.2	25
Computer software, systems .....	120	0.1	9
Computer systems analysts .....	300	0.2	5
Network and computer systems administrators .....	250	0.2	6
Network systems/data communications analysts .....	100	0.1	14
Mathematical scientists .....	40	<	(nc)
Operations and systems researchers and analysts .....	40	<	24
Physical scientists .....	50	<	(nc)
Chemists .....	50	<	27
Social scientists .....	220	0.1	(nc)
Market research analysts .....	220	0.1	17

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Electric lighting and wiring equipment (SIC 3640) -- continued:			
Engineers .....	4,910	3.1	(nc)
Computer .....	90	0.1	17
Electrical/electronics .....	1,740	1.1	(nc)
Electrical .....	1,030	0.6	7
Electronics .....	710	0.4	11
Industrial .....	1,200	0.7	6
Mechanical .....	1,060	0.7	6
Sales .....	550	0.3	8
Other engineers .....	270	0.2	(nc)
Chemical .....	30	<	9
Metallurgical/metallurgists .....	170	0.1	15
Safety .....	70	<	9
Technicians .....	3,300	2.1	(nc)
Computer, numerical tool, and process control programmers .....	580	0.4	(nc)
Computer programmers .....	300	0.2	8
Numerical tool and process control programmers .....	280	0.2	16
Drafters .....	910	0.6	(nc)
Electrical and electronics drafters .....	490	0.3	10
Mechanical drafters .....	420	0.3	6
Engineering technicians .....	1,760	1.1	(nc)
Electrical/electronics engineering technicians .....	950	0.6	11
Electro-mechanical technicians .....	220	0.1	12
Industrial engineering technicians .....	420	0.3	10
Mechanical engineering technicians .....	170	0.1	14
Physical and life science technicians .....	50	<	(nc)
Chemical technicians, except health .....	50	<	26
Household audio and video equipment (SIC 3650)			
Scientific and technical personnel.....	9,120	13.2	(nc)
Managers of scientific and technical personnel .....	910	1.3	(nc)
Computer and information systems managers .....	310	0.5	19
Engineering managers .....	600	0.9	10
Scientists .....	1,440	2.1	(nc)
Computer scientists .....	1,270	1.8	(nc)
Computer software, applications .....	260	0.4	12
Computer software, systems .....	110	0.2	12
Computer systems analysts .....	560	0.8	26
Network and computer systems administrators .....	200	0.3	12
Network systems/data communications analysts .....	140	0.2	21
Social scientists .....	170	0.3	(nc)
Market research analysts .....	170	0.3	18

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Household audio and video equipment (SIC 3650) -- continued:			
Engineers .....	3,640	5.3	(nc)
Computer .....	40	0.1	24
Electrical/electronics .....	1,950	2.8	(nc)
Electrical .....	1,120	1.6	25
Electronics .....	830	1.2	8
Industrial .....	550	0.8	14
Mechanical .....	850	1.2	26
Sales .....	220	0.3	18
Other engineers .....	30	<	(nc)
Metallurgical/metallurgists .....	30	<	23
Technicians .....	3,130	4.5	(nc)
Computer, numerical tool, and process control programmers .....	170	0.3	(nc)
Computer programmers .....	170	0.3	11
Drafters .....	180	0.3	(nc)
Electrical and electronics drafters .....	130	0.2	15
Mechanical drafters .....	50	0.1	16
Engineering technicians .....	2,780	4.0	(nc)
Electrical/electronics engineering technicians .....	1,610	2.3	10
Electro-mechanical technicians .....	640	0.9	19
Industrial engineering technicians .....	200	0.3	16
Mechanical engineering technicians .....	90	0.1	17
All other engineering technicians .....	240	0.3	(nc)
Audio and video equipment technicians .....	190	0.3	42
Broadcast technicians .....	50	0.1	28
Communication equipment (SIC 3660)			
Scientific and technical personnel.....	64,310	26.6	(nc)
Managers of scientific and technical personnel .....	5,420	2.2	(nc)
Computer and information systems managers .....	1,260	0.5	11
Engineering managers .....	4,160	1.7	6
Scientists .....	19,700	8.1	(nc)
Computer scientists .....	17,860	7.4	(nc)
Computer and information scientists, research .....	760	0.3	37
Computer software, applications .....	6,550	2.7	16
Computer software, systems .....	7,220	3.0	13
Computer systems analysts .....	1,580	0.7	26
Network and computer systems administrators .....	1,100	0.5	12
Network systems/data communications analysts .....	650	0.3	15
Mathematical scientists .....	50	<	(nc)
Operations and systems researchers and analysts .....	50	<	18
Social scientists .....	1,790	0.7	(nc)
Market research analysts .....	1,790	0.7	18

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Communication equipment (SIC 3660) -- continued:			
Engineers .....	23,030	9.5	(nc)
Aeronautical .....	60	<	44
Civil .....	220	0.1	42
Computer .....	3,190	1.3	17
Electrical/electronics .....	10,920	4.5	(nc)
Electrical .....	5,870	2.4	10
Electronics .....	5,050	2.1	7
Industrial .....	4,210	1.7	16
Mechanical .....	2,470	1.0	14
Sales .....	1,660	0.7	16
Other engineers .....	300	0.1	(nc)
Chemical .....	40	<	24
Metallurgical/metallurgists .....	170	0.1	19
Safety .....	90	<	17
Technicians .....	16,160	6.7	(nc)
Computer, numerical tool, and process control programmers .....	2,090	0.9	(nc)
Computer programmers .....	1,950	0.8	31
Numerical tool and process control programmers .....	140	0.1	18
Drafters .....	1,590	0.7	(nc)
Electrical and electronics drafters .....	940	0.4	6
Mechanical drafters .....	650	0.3	12
Engineering technicians .....	12,480	5.2	(nc)
Civil engineering technicians .....	70	<	44
Electrical/electronics engineering technicians .....	9,040	3.7	7
Electro-mechanical technicians .....	1,670	0.7	27
Industrial engineering technicians .....	1,700	0.7	17
Electronic components and accessories (SIC 3670)			
Scientific and technical personnel.....	151,710	26.0	(nc)
Managers of scientific and technical personnel .....	12,620	2.2	(nc)
Computer and information systems managers .....	3,300	0.6	9
Engineering managers .....	9,320	1.6	7
Scientists .....	22,700	3.9	(nc)
Computer scientists .....	19,870	3.4	(nc)
Computer and information scientists, research .....	300	0.1	34
Computer software, applications .....	8,110	1.4	14
Computer software, systems .....	5,810	1.0	10
Computer systems analysts .....	2,510	0.4	7
Network and computer systems administrators .....	1,580	0.3	7
Network systems/data communications analysts .....	1,560	0.3	31
Mathematical scientists .....	100	<	(nc)
Operations and systems researchers and analysts .....	100	<	28

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Electronic components and accessories (SIC 3670) -- continued:			
Physical scientists .....	500	0.1	(nc)
Chemists .....	460	0.1	18
Physicists .....	40	<	38
Social scientists .....	2,230	0.4	(nc)
Market research analysts .....	2,230	0.4	21
Engineers .....	59,070	10.1	(nc)
Aeronautical .....	60	<	32
Civil .....	240	<	37
Computer .....	12,270	2.1	22
Electrical/electronics .....	25,820	4.4	(nc)
Electrical .....	10,420	1.8	14
Electronics .....	15,400	2.6	14
Industrial .....	9,120	1.6	6
Mechanical .....	5,430	0.9	12
Sales .....	2,560	0.4	19
Other engineers .....	3,570	0.6	(nc)
Chemical .....	1,000	0.2	20
Environmental .....	270	0.1	9
Metallurgical/metallurgists .....	1,790	0.3	7
Safety .....	510	0.1	8
Technicians .....	57,320	9.8	(nc)
Computer, numerical tool, and process control programmers .....	3,440	0.6	(nc)
Computer programmers .....	2,990	0.5	10
Numerical tool and process control programmers .....	450	0.1	13
Drafters .....	3,820	0.7	(nc)
Architectural and civil drafters .....	30	<	19
Electrical and electronics drafters .....	2,970	0.5	25
Mechanical drafters .....	820	0.1	8
Engineering technicians .....	49,320	8.4	(nc)
Aerospace engineering and operations technicians .....	370	0.1	35
Electronical/electronics engineering technicians .....	35,760	6.1	12
Electro-mechanical technicians .....	2,750	0.5	8
Environmental engineering technicians .....	370	0.1	14
Industrial engineering technicians .....	7,930	1.4	27
Mechanical engineering technicians .....	2,140	0.4	13
Physical and life science technicians .....	740	0.1	(nc)
Chemical technicians, except health .....	740	0.1	16
Misc. electrical equipment & supplies (SIC 3690)			
Scientific and technical personnel .....	11,820	9.6	(nc)
Managers of scientific and technical personnel .....	1,040	0.9	(nc)
Computer and information systems managers .....	180	0.2	5
Engineering managers .....	860	0.7	5

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Misc. electrical equipment & supplies (SIC 3690) -- continued:			
Scientists .....	1,510	1.2	(nc)
Computer scientists .....	1,170	0.9	(nc)
Computer software, applications .....	420	0.3	9
Computer software, systems .....	330	0.3	8
Computer systems analysts .....	140	0.1	7
Network and computer systems administrators .....	200	0.2	6
Network systems/data communications analysts .....	80	0.1	8
Mathematical scientists .....	40	<	(nc)
Operations and systems researchers and analysts .....	40	<	6
Physical scientists .....	110	0.1	(nc)
Chemists .....	110	0.1	15
Social scientists .....	190	0.2	(nc)
Market research analysts .....	190	0.2	16
Engineers .....	5,120	4.2	(nc)
Aeronautical .....	200	0.2	13
Civil .....	40	<	6
Computer .....	100	0.1	25
Electrical/electronics .....	1,590	1.3	(nc)
Electrical .....	990	0.8	6
Electronics .....	600	0.5	8
Industrial .....	1,260	1.0	6
Mechanical .....	1,240	1.0	6
Sales .....	200	0.2	11
Other engineers .....	490	0.4	(nc)
Chemical .....	160	0.1	9
Environmental .....	50	<	11
Metallurgical/metallurgists .....	180	0.2	20
Safety .....	100	0.1	7
Technicians .....	4,150	3.4	(nc)
Computer, numerical tool, and process control programmers .....	330	0.3	(nc)
Computer programmers .....	170	0.1	11
Numerical tool and process control programmers .....	160	0.1	21
Drafters .....	640	0.5	(nc)
Electrical and electronics drafters .....	290	0.2	7
Mechanical drafters .....	350	0.3	9
Engineering technicians .....	3,020	2.5	(nc)
Electrical/electronics engineering technicians .....	1,690	1.4	5
Electro-mechanical technicians .....	380	0.3	10
Environmental engineering technicians .....	40	<	17
Industrial engineering technicians .....	520	0.4	9
Mechanical engineering technicians .....	390	0.3	9
Physical and life science technicians .....	160	0.1	(nc)
Chemical technicians, except health .....	160	0.1	18

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Motor vehicles and equipment (SIC 3710)			
Scientific and technical personnel.....	46,920	5.1	(nc)
Managers of scientific and technical personnel .....	6,510	0.7	(nc)
Computer and information systems managers .....	1,170	0.1	9
Engineering managers .....	5,340	0.6	3
Scientists .....	2,810	0.3	(nc)
Computer scientists .....	2,110	0.2	(nc)
Computer and information scientists, research .....	50	<	19
Computer software, applications .....	420	0.1	13
Computer software, systems .....	190	<	6
Computer systems analysts .....	1,180	0.1	5
Network and computer systems administrators .....	160	<	7
Network systems/data communications analysts .....	110	<	6
Mathematical scientists .....	380	<	(nc)
Operations and systems researchers and analysts .....	380	<	12
Physical scientists .....	60	<	(nc)
Materials scientists .....	60	<	20
Social scientists .....	260	<	(nc)
Market research analysts .....	260	<	18
Engineers .....	26,060	2.8	(nc)
Civil .....	50	<	15
Computer .....	180	<	28
Electrical/electronics .....	1,460	0.2	(nc)
Electrical .....	1,220	0.1	13
Electronics .....	240	<	8
Industrial .....	12,990	1.4	3
Mechanical .....	8,550	0.9	4
Sales .....	810	0.1	18
Other engineers .....	2,020	0.2	(nc)
Chemical .....	110	<	11
Environmental .....	130	<	36
Metallurgical/metallurgists .....	1,120	0.1	10
Safety .....	660	0.1	9
Technicians .....	11,540	1.3	(nc)
Computer, numerical tool, and process control programmers .....	1,910	0.2	(nc)
Computer programmers .....	1,240	0.1	29
Numerical tool and process control programmers .....	670	0.1	10
Drafters .....	3,080	0.3	(nc)
Electrical and electronics drafters .....	210	<	11
Mechanical drafters .....	2,870	0.3	3

See explanatory information and SOURCE at end of table.



Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Motor vehicles and equipment (SIC 3710) -- continued:			
Engineering technicians .....	6,290	0.7	(nc)
Aerospace engineering and operations technicians .....	40	<	29
Electrical/electronics engineering technicians .....	1,080	0.1	9
Electro-mechanical technicians .....	540	0.1	10
Industrial engineering technicians .....	2,450	0.3	7
Mechanical engineering technicians .....	2,180	0.2	6
Physical and life science technicians .....	260	<	(nc)
Chemical technicians, except health .....	170	<	7
Environmental science and protection technicians, including health .....	90	<	16
Aircraft and parts (SIC 3720)			
Scientific and technical personnel.....	106,730	23.7	(nc)
Managers of scientific and technical personnel .....	9,170	2.0	(nc)
Computer and information systems managers .....	1,820	0.4	8
Engineering managers .....	7,350	1.6	6
Scientists .....	18,780	4.2	(nc)
Computer scientists .....	14,400	3.2	(nc)
Computer and information scientists, research .....	130	<	31
Computer software, applications .....	1,210	0.3	5
Computer software, systems .....	3,620	0.8	11
Computer systems analysts .....	7,120	1.6	8
Network and computer systems administrators .....	1,540	0.3	9
Network systems/data communications analysts .....	780	0.2	18
Mathematical scientists .....	3,450	0.8	(nc)
Mathematicians .....	120	<	33
Operations and systems researchers and analysts .....	3,330	0.7	5
Physical scientists .....	460	0.1	(nc)
Chemists .....	50	<	17
Environmental scientists and specialists, including health .....	30	<	17
Materials scientists .....	380	0.1	36
Social scientists .....	470	0.1	(nc)
Market research analysts .....	470	0.1	15
Engineers .....	55,580	12.3	(nc)
Aeronautical .....	34,840	7.7	7
Civil .....	160	<	16
Computer .....	430	0.1	34
Electrical/electronics .....	2,220	0.5	(nc)
Electrical .....	820	0.2	23
Electronics .....	1,400	0.3	21
Industrial .....	7,760	1.7	5
Mechanical .....	7,450	1.7	10
Sales .....	490	0.1	15

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Aircraft and parts (SIC 3720) -- continued:			
Other engineers .....	2,230	0.5	(nc)
Chemical .....	70	<	17
Environmental .....	190	<	8
Metallurgical/metallurgists .....	1,100	0.2	23
Safety .....	870	0.2	7
Technicians .....	23,200	5.1	(nc)
Computer, numerical tool, and process control programmers .....	3,920	0.9	(nc)
Computer programmers .....	2,470	0.6	8
Numerical tool and process control programmers .....	1,450	0.3	12
Drafters .....	2,200	0.5	(nc)
Electrical and electronics drafters .....	530	0.1	31
Mechanical drafters .....	1,670	0.4	20
Engineering technicians .....	16,090	3.6	(nc)
Aerospace engineering and operations technicians .....	5,640	1.3	9
Electrical/electronics engineering technicians .....	1,390	0.3	7
Electro-mechanical technicians .....	1,360	0.3	14
Environmental engineering technicians .....	50	<	24
Industrial engineering technicians .....	3,580	0.8	9
Mechanical engineering technicians .....	910	0.2	10
All other engineering technicians .....	3,160	0.7	(nc)
Broadcast technicians .....	60	<	50
Transportation inspectors .....	3,100	0.7	5
Physical and life science technicians .....	990	0.2	(nc)
Biological technicians .....	40	<	11
Chemical technicians, except health .....	750	0.2	11
Environmental science and protection technicians, including health .....	200	<	10
Ship and boat building and repairing (SIC 3730)			
Scientific and technical personnel.....	3,440	2.2	(nc)
Managers of scientific and technical personnel .....	1,030	0.7	(nc)
Computer and information systems managers .....	130	0.1	10
Engineering managers .....	900	0.6	7
Scientists .....	310	0.2	(nc)
Computer scientists .....	270	0.2	(nc)
Computer systems analysts .....	210	0.1	6
Network and computer systems administrators .....	60	<	11
Social scientists .....	40	<	(nc)
Market research analysts .....	40	<	20

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Ship and boat building and repairing (SIC 3730) -- continued:			
Engineers .....	1,540	1.0	(nc)
Electrical/electronics .....	230	0.2	(nc)
Electrical .....	230	0.2	11
Industrial .....	390	0.3	9
Sales .....	60	<	19
Other engineers .....	860	0.5	(nc)
Marine .....	620	0.4	9
Metallurgical/metallurgists .....	70	<	5
Safety .....	170	0.1	9
Technicians .....	560	0.4	(nc)
Computer, numerical tool, and process control programmers .....	160	0.1	(nc)
Computer programmers .....	80	0.1	20
Numerical tool and process control programmers .....	80	0.1	25
Engineering technicians .....	360	0.2	(nc)
Industrial engineering technicians .....	310	0.2	16
All other engineering technicians .....	50	<	(nc)
Transportation inspectors .....	50	<	29
Physical and life science technicians .....	40	<	(nc)
Environmental science and protection technicians, including health .....	40	<	20
Railroad equipment (SIC 3740)			
Scientific and technical personnel.....	2,000	7.2	(nc)
Managers of scientific and technical personnel .....	260	0.9	(nc)
Computer and information systems managers .....	50	0.2	8
Engineering managers .....	210	0.8	7
Scientists .....	50	0.2	(nc)
Computer scientists .....	50	0.2	(nc)
Computer systems analysts .....	50	0.2	5
Engineers .....	770	2.8	(nc)
Electrical/electronics .....	80	0.3	(nc)
Electrical .....	80	0.3	24
Industrial .....	470	1.7	3
Mechanical .....	220	0.8	7
Technicians .....	920	3.3	(nc)
Drafters .....	440	1.6	(nc)
Electrical and electronics drafters .....	30	0.1	24
Mechanical drafters .....	410	1.5	6
Engineering technicians .....	480	1.7	(nc)
Electronical/electronics engineering technicians .....	270	1.0	5
Industrial engineering technicians .....	60	0.2	9
Mechanical engineering technicians .....	150	0.5	12

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Motorcycles, bicycles, and parts (SIC 3750)			
Scientific and technical personnel.....	1,610	8.6	(nc)
Managers of scientific and technical personnel .....	140	0.8	(nc)
Computer and information systems managers .....	50	0.3	28
Engineering managers .....	90	0.5	19
Scientists .....	60	0.3	(nc)
Computer scientists .....	60	0.3	(nc)
Computer systems analysts .....	60	0.3	35
Engineers .....	1,220	6.5	(nc)
Industrial .....	120	0.6	22
Mechanical .....	1,010	5.4	33
Other engineers .....	90	0.5	(nc)
Metallurgical/metallurgists .....	90	0.5	40
Technicians .....	190	1.0	(nc)
Computer, numerical tool, and process control programmers .....	30	0.2	(nc)
Numerical tool and process control programmers .....	30	0.2	28
Drafters .....	50	0.3	(nc)
Mechanical drafters .....	50	0.3	19
Engineering technicians .....	110	0.6	(nc)
Mechanical engineering technicians .....	110	0.6	27
Guided missiles, space vehicles, parts (SIC 3760)			
Scientific and technical personnel.....	32,420	41.0	(nc)
Managers of scientific and technical personnel .....	2,350	3.0	(nc)
Computer and information systems managers .....	240	0.3	15
Engineering managers .....	2,110	2.7	14
Scientists .....	6,460	8.2	(nc)
Computer scientists .....	5,560	7.0	(nc)
Computer and information scientists, research .....	220	0.3	34
Computer software, applications .....	1,290	1.6	17
Computer software, systems .....	2,030	2.6	16
Computer systems analysts .....	1,380	1.8	18
Network and computer systems administrators .....	350	0.4	17
Network systems/data communications analysts .....	290	0.4	44
Mathematical scientists .....	690	0.9	(nc)
Operations and systems researchers and analysts .....	690	0.9	25
Physical scientists .....	160	0.2	(nc)
Chemists .....	60	0.1	39
Materials scientists .....	100	0.1	19
Social scientists .....	50	0.1	(nc)
Market research analysts .....	50	0.1	22

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Guided missiles, space vehicles, parts (SIC 3760) -- continued:			
Engineers .....	19,440	24.6	(nc)
Aeronautical .....	13,290	16.8	15
Computer .....	230	0.3	41
Electrical/electronics .....	1,350	1.7	(nc)
Electrical .....	560	0.7	30
Electronics .....	790	1.0	23
Industrial .....	2,800	3.5	30
Mechanical .....	1,450	1.8	17
Sales .....	40	0.1	20
Other engineers .....	280	0.4	(nc)
Chemical .....	110	0.1	40
Environmental .....	40	0.1	20
Safety .....	130	0.2	24
Technicians .....	4,170	5.3	(nc)
Computer, numerical tool, and process control programmers .....	670	0.9	(nc)
Computer programmers .....	670	0.9	20
Drafters .....	290	0.4	(nc)
Electrical and electronics drafters .....	100	0.1	24
Mechanical drafters .....	190	0.2	22
Engineering technicians .....	3,150	4.0	(nc)
Aerospace engineering and operations technicians .....	860	1.1	13
Electrical/electronics engineering technicians .....	1,080	1.4	22
Electro-mechanical technicians .....	420	0.5	24
Industrial engineering technicians .....	240	0.3	32
Mechanical engineering technicians .....	550	0.7	10
Physical and life science technicians .....	60	0.1	(nc)
Environmental science and protection technicians, including health .....	60	0.1	35
Miscellaneous transportation equipment (SIC 3790)			
Scientific and technical personnel .....	1,890	3.3	(nc)
Managers of scientific and technical personnel .....	250	0.4	(nc)
Computer and information systems managers .....	80	0.1	11
Engineering managers .....	170	0.3	8
Scientists .....	90	0.2	(nc)
Computer scientists .....	90	0.2	(nc)
Computer software, applications .....	40	0.1	22
Computer systems analysts .....	50	0.1	29
Engineers .....	850	1.5	(nc)
Electrical/electronics .....	100	0.2	(nc)
Electrical .....	100	0.2	15
Industrial .....	340	0.6	18
Mechanical .....	410	0.7	11

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Miscellaneous transportation equipment (SIC 3790) -- continued:			
Technicians .....	700	1.2	(nc)
Computer, numerical tool, and process control programmers .....	200	0.4	(nc)
Computer programmers .....	160	0.3	11
Numerical tool and process control programmers .....	40	0.1	19
Drafters .....	160	0.3	(nc)
Mechanical drafters .....	160	0.3	13
Engineering technicians .....	340	0.6	(nc)
Electrical/electronics engineering technicians .....	50	0.1	16
Industrial engineering technicians .....	160	0.3	26
Mechanical engineering technicians .....	130	0.2	19
Search and navigation equipment (SIC 3810)			
Scientific and technical personnel.....	62,720	40.8	(nc)
Managers of scientific and technical personnel .....	5,900	3.8	(nc)
Computer and information systems managers .....	1,280	0.8	13
Engineering managers .....	4,620	3.0	4
Scientists .....	12,960	8.4	(nc)
Computer scientists .....	12,290	8.0	(nc)
Computer and information scientists, research .....	150	0.1	41
Computer software, applications .....	3,870	2.5	11
Computer software, systems .....	6,310	4.1	8
Computer systems analysts .....	1,100	0.7	9
Network and computer systems administrators .....	530	0.3	9
Network systems/data communications analysts .....	330	0.2	12
Mathematical scientists .....	180	0.1	(nc)
Operations and systems researchers and analysts .....	180	0.1	19
Physical scientists .....	210	0.1	(nc)
Materials scientists .....	140	0.1	26
Physicists .....	70	0.1	42
Social scientists .....	280	0.2	(nc)
Market research analysts .....	280	0.2	28
Engineers .....	31,730	20.6	(nc)
Aeronautical .....	4,050	2.6	30
Civil .....	170	0.1	16
Computer .....	1,680	1.1	13
Electrical/electronics .....	16,900	11.0	(nc)
Electrical .....	8,360	5.4	13
Electronics .....	8,540	5.6	11
Industrial .....	3,510	2.3	5
Mechanical .....	4,260	2.8	9
Sales .....	330	0.2	6
Other engineers .....	830	0.5	(nc)
Chemical .....	190	0.1	30
Environmental .....	100	0.1	10
Metallurgical/metallurgists .....	390	0.3	13
Safety .....	150	0.1	11

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity	Relative standard error
Search and navigation equipment (SIC 3810) -- continued:			
Technicians .....	12,130	7.9	(nc)
Computer, numerical tool, and process control programmers .....	720	0.5	(nc)
Computer programmers .....	660	0.4	24
Numerical tool and process control programmers .....	60	<	20
Drafters .....	1,340	0.9	(nc)
Architectural and civil drafters .....	260	0.2	44
Electrical and electronics drafters .....	660	0.4	15
Mechanical drafters .....	420	0.3	11
Engineering technicians .....	9,990	6.5	(nc)
Aerospace engineering and operations technicians .....	1,430	0.9	15
Civil engineering technicians .....	30	<	40
Electrical/electronics engineering technicians .....	5,750	3.7	10
Electro-mechanical technicians .....	840	0.6	10
Environmental engineering technicians .....	80	0.1	18
Industrial engineering technicians .....	1,030	0.7	10
Mechanical engineering technicians .....	830	0.5	15
Physical and life science technicians .....	80	0.1	(nc)
Chemical technicians, except health .....	80	0.1	21
Measuring and controlling devices (SIC 3820)			
Scientific and technical personnel.....	71,460	25.3	(nc)
Managers of scientific and technical personnel .....	6,710	2.4	(nc)
Computer and information systems managers .....	1,410	0.5	7
Engineering managers .....	5,190	1.8	3
Natural sciences managers .....	110	<	44
Scientists .....	14,590	5.2	(nc)
Computer scientists .....	12,240	4.3	(nc)
Computer and information scientists, research .....	140	0.1	34
Computer software, applications .....	5,660	2.0	6
Computer software, systems .....	3,750	1.3	7
Computer systems analysts .....	1,420	0.5	10
Network and computer systems administrators .....	910	0.3	5
Network systems/data communications analysts .....	360	0.1	9
Life scientists .....	80	<	(nc)
Biochemists and biophysicists .....	40	<	27
Microbiologists .....	40	<	47
Mathematical scientists .....	230	0.1	(nc)
Operations and systems researchers and analysts .....	230	0.1	33
Physical scientists .....	1,060	0.4	(nc)
Chemists .....	900	0.3	12
Materials scientists .....	60	<	22
Physicists .....	100	<	19
Social scientists .....	980	0.4	(nc)
Market research analysts .....	980	0.4	12

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Measuring and controlling devices (SIC 3820) -- continued:			
Engineers .....	29,440	10.4	(nc)
Aeronautical .....	80	<	32
Civil .....	100	<	20
Computer .....	1,810	0.6	11
Electrical/electronics .....	12,510	4.4	(nc)
Electrical .....	8,130	2.9	11
Electronics .....	4,380	1.6	8
Industrial .....	4,200	1.5	8
Mechanical .....	6,550	2.3	6
Sales .....	3,110	1.1	6
Other engineers .....	1,080	0.4	(nc)
Biomedical .....	60	<	25
Chemical .....	250	0.1	16
Environmental .....	70	<	22
Metallurgical/metallurgists .....	490	0.2	12
Safety .....	210	0.1	22
Technicians .....	20,720	7.3	(nc)
Computer, numerical tool, and process control programmers .....	2,560	0.9	(nc)
Computer programmers .....	2,240	0.8	30
Numerical tool and process control programmers .....	320	0.1	15
Drafters .....	3,200	1.1	(nc)
Electrical and electronics drafters .....	1,550	0.6	6
Mechanical drafters .....	1,650	0.6	6
Engineering technicians .....	14,530	5.1	(nc)
Aerospace engineering and operations technicians .....	120	<	43
Civil engineering technicians .....	170	0.1	5
Electrical/electronics engineering technicians .....	8,020	2.8	4
Electro-mechanical technicians .....	2,120	0.8	9
Environmental engineering technicians .....	50	<	18
Industrial engineering technicians .....	2,200	0.8	16
Mechanical engineering technicians .....	1,850	0.7	9
Physical and life science technicians .....	430	0.2	(nc)
Chemical technicians, except health .....	430	0.2	11
Medical instruments and supplies (SIC 3840)			
Scientific and technical personnel .....	32,510	11.4	(nc)
Managers of scientific and technical personnel .....	3,750	1.3	(nc)
Computer and information systems managers .....	950	0.3	9
Engineering managers .....	2,600	0.9	4
Natural sciences managers .....	200	0.1	16

See explanatory information and SOURCE at end of table.



Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Medical instruments and supplies (SIC 3840) -- continued:			
Scientists .....	6,670	2.3	(nc)
Computer scientists .....	4,040	1.4	(nc)
Computer and information scientists, research .....	70	<	18
Computer software, applications .....	1,380	0.5	10
Computer software, systems .....	660	0.2	9
Computer systems analysts .....	920	0.3	10
Network and computer systems administrators .....	710	0.3	6
Network systems/data communications analysts .....	300	0.1	10
Life scientists .....	310	0.1	(nc)
Biochemists and biophysicists .....	60	<	35
Medical scientists, except epidemiologists .....	140	0.1	21
Microbiologists .....	110	<	21
Mathematical scientists .....	150	0.1	(nc)
Operations and systems researchers and analysts .....	110	<	17
Statisticians .....	40	<	33
Physical scientists .....	1,230	0.4	(nc)
Chemists .....	1,140	0.4	20
Physicists .....	90	<	47
Social scientists .....	940	0.3	(nc)
Market research analysts .....	940	0.3	12
Engineers .....	12,900	4.5	(nc)
Computer .....	230	0.1	15
Electrical/electronics .....	2,580	0.9	(nc)
Electrical .....	1,750	0.6	10
Electronics .....	830	0.3	12
Industrial .....	3,470	1.2	8
Mechanical .....	3,650	1.3	8
Sales .....	470	0.2	23
Other engineers .....	2,500	0.9	(nc)
Biomedical .....	1,650	0.6	10
Chemical .....	140	0.1	24
Environmental .....	50	<	11
Metallurgical/metallurgists .....	530	0.2	8
Safety .....	130	0.1	8
Technicians .....	9,190	3.2	(nc)
Computer, numerical tool, and process control programmers .....	770	0.3	(nc)
Computer programmers .....	710	0.3	8
Numerical tool and process control programmers .....	60	<	16
Drafters .....	1,260	0.4	(nc)
Electrical and electronics drafters .....	230	0.1	15
Mechanical drafters .....	1,030	0.4	8

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Medical instruments and supplies (SIC 3840) -- continued:			
Engineering technicians .....	5,960	2.1	(nc)
Electrical/electronics engineering technicians .....	2,210	0.8	9
Electro-mechanical technicians .....	870	0.3	15
Industrial engineering technicians .....	1,610	0.6	8
Mechanical engineering technicians .....	1,270	0.4	11
Physical and life science technicians .....	1,200	0.4	(nc)
Biological technicians .....	180	0.1	14
Chemical technicians, except health .....	1,020	0.4	26
Ophthalmic goods (SIC 3850)			
Scientific and technical personnel.....	1,550	5.0	(nc)
Managers of scientific and technical personnel .....	230	0.7	(nc)
Computer and information systems managers .....	100	0.3	10
Engineering managers .....	130	0.4	21
Scientists .....	330	1.1	(nc)
Computer scientists .....	270	0.9	(nc)
Computer software, applications .....	40	0.1	18
Computer systems analysts .....	130	0.4	10
Network and computer systems administrators .....	60	0.2	15
Network systems/data communications analysts .....	40	0.1	21
Social scientists .....	60	0.2	(nc)
Market research analysts .....	60	0.2	24
Engineers .....	540	1.7	(nc)
Electrical/electronics .....	50	0.2	(nc)
Electrical .....	50	0.2	47
Industrial .....	360	1.2	12
Other engineers .....	130	0.4	(nc)
Metallurgical/metallurgists .....	130	0.4	21
Technicians .....	450	1.5	(nc)
Computer, numerical tool, and process control programmers .....	80	0.3	(nc)
Computer programmers .....	80	0.3	18
Engineering technicians .....	320	1.0	(nc)
Electrical/electronics engineering technicians .....	80	0.3	23
Industrial engineering technicians .....	240	0.8	8
Physical and life science technicians .....	50	0.2	(nc)
Chemical technicians, except health .....	50	0.2	12
Photographic equipment and supplies (SIC 3860)			
Scientific and technical personnel.....	9,810	15.4	(nc)
Managers of scientific and technical personnel .....	390	0.6	(nc)
Computer and information systems managers .....	220	0.3	39
Engineering managers .....	170	0.3	7

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Photographic equipment and supplies (SIC 3860) -- continued:			
Scientists .....	1,770	2.8	(nc)
Computer scientists .....	1,360	2.1	(nc)
Computer and information scientists, research .....	260	0.4	45
Computer software, applications .....	850	1.3	23
Computer software, systems .....	210	0.3	33
Network systems/data communications analysts .....	40	0.1	30
Physical scientists .....	410	0.7	(nc)
Chemists .....	330	0.5	14
Materials scientists .....	80	0.1	39
Engineers .....	6,330	9.9	(nc)
Computer .....	240	0.4	22
Electrical/electronics .....	720	1.1	(nc)
Electrical .....	220	0.3	15
Electronics .....	500	0.8	17
Industrial .....	1,510	2.4	40
Mechanical .....	1,160	1.8	20
Sales .....	100	0.2	18
Other engineers .....	2,600	4.1	(nc)
Environmental .....	2,400	3.8	22
Metallurgical/metallurgists .....	150	0.2	25
Safety .....	50	0.1	28
Technicians .....	1,320	2.1	(nc)
Computer, numerical tool, and process control programmers .....	180	0.3	(nc)
Computer programmers .....	180	0.3	8
Drafters .....	100	0.2	(nc)
Mechanical drafters .....	100	0.2	28
Engineering technicians .....	1,040	1.6	(nc)
Electrical/electronics engineering technicians .....	570	0.9	19
Industrial engineering technicians .....	470	0.7	18
Jewelry, silverware, and plated ware (SIC 3910)			
Scientific and technical personnel.....	450	1.0	(nc)
Managers of scientific and technical personnel .....	100	0.2	(nc)
Computer and information systems managers .....	100	0.2	6
Scientists .....	180	0.4	(nc)
Computer scientists .....	80	0.2	(nc)
Computer systems analysts .....	40	0.1	17
Network and computer systems administrators .....	40	0.1	12
Social scientists .....	100	0.2	(nc)
Market research analysts .....	100	0.2	26

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Jewelry, silverware, and plated ware (SIC 3910) -- continued:			
Engineers .....	50	0.1	(nc)
Industrial .....	50	0.1	13
Technicians .....	120	0.3	(nc)
Computer, numerical tool, and process control programmers .....	120	0.3	(nc)
Computer programmers .....	120	0.3	12
Musical instruments (SIC 3930)			
Scientific and technical personnel.....	380	2.5	(nc)
Managers of scientific and technical personnel .....	40	0.3	(nc)
Engineering managers .....	40	0.3	15
Scientists .....	40	0.3	(nc)
Computer scientists .....	40	0.3	(nc)
Computer software, systems .....	40	0.3	23
Engineers .....	210	1.4	(nc)
Electrical/electronics .....	120	0.8	(nc)
Electrical .....	40	0.3	22
Electronics .....	80	0.5	18
Industrial .....	50	0.3	15
Mechanical .....	40	0.3	16
Technicians .....	90	0.6	(nc)
Computer, numerical tool, and process control programmers .....	50	0.3	(nc)
Computer programmers .....	50	0.3	16
Engineering technicians .....	40	0.3	(nc)
Electrical/electronics engineering technicians .....	40	0.3	18
Toys and sporting goods (SIC 3940)			
Scientific and technical personnel.....	3,270	3.6	(nc)
Managers of scientific and technical personnel .....	570	0.6	(nc)
Computer and information systems managers .....	240	0.3	8
Engineering managers .....	330	0.4	8
Scientists .....	860	1.0	(nc)
Computer scientists .....	640	0.7	(nc)
Computer software, applications .....	70	0.1	19
Computer software, systems .....	60	0.1	15
Computer systems analysts .....	290	0.3	12
Network and computer systems administrators .....	140	0.2	11
Network systems/data communications analysts .....	80	0.1	16
Physical scientists .....	60	0.1	(nc)
Chemists .....	60	0.1	20
Social scientists .....	160	0.2	(nc)
Market research analysts .....	160	0.2	13

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Toys and sporting goods (SIC 3940) -- continued:			
Engineers .....	1,020	1.1	(nc)
Electrical/electronics .....	60	0.1	(nc)
Electrical .....	60	0.1	16
Industrial .....	380	0.4	7
Mechanical .....	460	0.5	10
Other engineers .....	120	0.1	(nc)
Metallurgical/metallurgists .....	90	0.1	18
Safety .....	30	<	17
Technicians .....	820	0.9	(nc)
Computer, numerical tool, and process control programmers .....	160	0.2	(nc)
Computer programmers .....	160	0.2	9
Drafters .....	270	0.3	(nc)
Mechanical drafters .....	270	0.3	11
Engineering technicians .....	390	0.4	(nc)
Electrical/electronics engineering technicians .....	70	0.1	20
Electro-mechanical technicians .....	80	0.1	20
Industrial engineering technicians .....	90	0.1	11
Mechanical engineering technicians .....	150	0.2	12
Pens, pencils, office, & art supplies (SIC 3950)			
Scientific and technical personnel .....	750	2.8	(nc)
Managers of scientific and technical personnel .....	200	0.7	(nc)
Computer and information systems managers .....	90	0.3	12
Engineering managers .....	110	0.4	12
Scientists .....	180	0.7	(nc)
Computer scientists .....	100	0.4	(nc)
Computer software, applications .....	30	0.1	30
Computer systems analysts .....	30	0.1	20
Network and computer systems administrators .....	40	0.2	12
Physical scientists .....	50	0.2	(nc)
Chemists .....	50	0.2	6
Social scientists .....	30	0.1	(nc)
Market research analysts .....	30	0.1	21
Engineers .....	190	0.7	(nc)
Industrial .....	70	0.3	18
Mechanical .....	120	0.4	18
Technicians .....	180	0.7	(nc)
Computer, numerical tool, and process control programmers .....	60	0.2	(nc)
Computer programmers .....	60	0.2	14
Drafters .....	90	0.3	(nc)
Mechanical drafters .....	90	0.3	30
Engineering technicians .....	30	0.1	(nc)
Mechanical engineering technicians .....	30	0.1	20

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Costume jewelry and notions (SIC 3960)			
Scientific and technical personnel.....	120	0.7	(nc)
Managers of scientific and technical personnel .....	40	0.2	(nc)
Computer and information systems managers .....	40	0.2	14
Engineers .....	40	0.2	(nc)
Mechanical .....	40	0.2	9
Technicians .....	40	0.2	(nc)
Computer, numerical tool, and process control programmers .....	40	0.2	(nc)
Computer programmers .....	40	0.2	24
Miscellaneous manufactures (SIC 3990)			
Scientific and technical personnel.....	5,270	3.1	(nc)
Managers of scientific and technical personnel .....	700	0.4	(nc)
Computer and information systems managers .....	280	0.2	7
Engineering managers .....	420	0.3	7
Scientists .....	1,270	0.8	(nc)
Computer scientists .....	1,060	0.6	(nc)
Computer software, applications .....	370	0.2	14
Computer software, systems .....	200	0.1	20
Computer systems analysts .....	230	0.1	6
Network and computer systems administrators .....	190	0.1	6
Network systems/data communications analysts .....	70	<	13
Physical scientists .....	70	<	(nc)
Chemists .....	70	<	5
Social scientists .....	140	0.1	(nc)
Market research analysts .....	140	0.1	6
Engineers .....	1,540	0.9	(nc)
Civil .....	30	<	9
Computer .....	40	<	31
Electrical/electronics .....	490	0.3	(nc)
Electrical .....	220	0.1	13
Electronics .....	270	0.2	24
Industrial .....	280	0.2	6
Mechanical .....	420	0.3	10
Sales .....	100	0.1	11
Other engineers .....	180	0.1	(nc)
Chemical .....	60	<	2
Metallurgical/metallurgists .....	90	0.1	11
Safety .....	30	<	8

See explanatory information and SOURCE at end of table.

Table 7. Employed scientists, engineers, technicians (SETs), and SET managers  
in SICs 33-39 (selected manufacturing industries, continued),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Miscellaneous manufactures (SIC 3990) -- continued:			
Technicians .....	1,760	1.1	(nc)
Computer, numerical tool, and process control programmers .....	320	0.2	(nc)
Computer programmers .....	210	0.1	10
Numerical tool and process control programmers .....	110	0.1	27
Drafters .....	710	0.4	(nc)
Electrical and electronics drafters .....	260	0.2	23
Mechanical drafters .....	450	0.3	8
Engineering technicians .....	650	0.4	(nc)
Electrical/electronics engineering technicians .....	310	0.2	14
Electro-mechanical technicians .....	80	0.1	24
Industrial engineering technicians .....	150	0.1	12
Mechanical engineering technicians .....	110	0.1	18
Physical and life science technicians .....	80	0.1	(nc)
Chemical technicians, except health .....	80	0.1	12

<sup>1</sup>SET intensity = the ratio of SET employment (including SET managers) in a given SIC to total employment in that SIC, expressed in percentage terms.

<sup>2</sup>Relative standard error of the estimate of filled positions, expressed as a percentage.

KEY:       nc       = Not computed  
          <       = The estimated actual value is less than 0.05 for percentages when used to characterize SET intensity.  
          n.e.c.   = Not elsewhere classified.  
          SIC     = Standard Industrial Classification. See Technical Notes for explanation.

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

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

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
<b>Railroad transportation (SIC 4010)</b>			
Scientific and technical personnel.....	11,930	4.9	(nc)
Managers of scientific and technical personnel .....	300	0.1	(nc)
Computer and information systems managers .....	180	0.1	21
Engineering managers .....	120	0.1	23
Scientists .....	1,170	0.5	(nc)
Computer scientists .....	950	0.4	(nc)
Computer software, systems .....	510	0.2	24
Computer systems analysts .....	340	0.1	14
Network and computer systems administrators .....	100	<	13
Mathematical scientists .....	170	0.1	(nc)
Operations and systems researchers and analysts .....	170	0.1	49
Social scientists .....	50	<	(nc)
Market research analysts .....	50	<	27
Engineers .....	6,000	2.5	(nc)
Civil .....	460	0.2	19
Electrical/electronics .....	190	0.1	(nc)
Electrical .....	190	0.1	29
Other engineers .....	5,350	2.2	(nc)
Environmental .....	50	<	17
Safety .....	5,300	2.2	24
Technicians .....	4,460	1.8	(nc)
Computer, numerical tool, and process control programmers .....	200	0.1	(nc)
Computer programmers .....	200	0.1	11
Engineering technicians .....	4,260	1.7	(nc)
Electrical/electronics engineering technicians .....	200	0.1	16
All other engineering technicians .....	4,060	1.7	(nc)
Traffic technicians .....	60	<	12
Transportation inspectors .....	4,000	1.6	6
<b>Local and suburban transportation (SIC 4110)</b>			
Scientific and technical personnel.....	370	0.2	(nc)
Managers of scientific and technical personnel .....	120	0.1	(nc)
Computer and information systems managers .....	120	0.1	8
Scientists .....	80	<	(nc)
Computer scientists .....	80	<	(nc)
Network and computer systems administrators .....	80	<	9
Engineers .....	30	<	(nc)
Civil .....	30	<	26

See explanatory information and SOURCE at end of table.



Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Local and suburban transportation (SIC 4110) -- continued:			
Technicians .....	140	0.1	(nc)
Computer, numerical tool, and process control programmers .....	60	<	(nc)
Computer programmers .....	60	<	12
Engineering technicians .....	80	<	(nc)
All other engineering technicians .....	80	<	(nc)
Transportation inspectors .....	80	<	4
Trucking and courier services, excl. air (SIC 4210)			
Scientific and technical personnel.....	4,100	0.3	(nc)
Managers of scientific and technical personnel .....	940	0.1	(nc)
Computer and information systems managers .....	840	0.1	7
Engineering managers .....	100	<	22
Scientists .....	1,060	0.1	(nc)
Computer scientists .....	820	0.1	(nc)
Computer systems analysts .....	290	<	31
Network and computer systems administrators .....	480	<	6
Network systems/data communications analysts .....	50	<	18
Mathematical scientists .....	90	<	(nc)
Operations and systems researchers and analysts .....	90	<	14
Social scientists .....	150	<	(nc)
Economists .....	50	<	25
Market research analysts .....	100	<	15
Engineers .....	310	<	(nc)
Sales .....	130	<	16
Other engineers .....	180	<	(nc)
Safety .....	180	<	8
Technicians .....	1,790	0.1	(nc)
Computer, numerical tool, and process control programmers .....	1,110	0.1	(nc)
Computer programmers .....	1,110	0.1	11
Engineering technicians .....	680	<	(nc)
All other engineering technicians .....	680	<	(nc)
Transportation inspectors .....	680	<	18
Public warehousing and storage (SIC 4220)			
Scientific and technical personnel.....	1,940	0.9	(nc)
Managers of scientific and technical personnel .....	510	0.2	(nc)
Computer and information systems managers .....	420	0.2	10
Engineering managers .....	90	<	8

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Public warehousing and storage (SIC 4220) -- continued:			
Scientists .....	1,000	0.5	(nc)
Computer scientists .....	960	0.4	(nc)
Computer software, applications .....	130	0.1	38
Computer software, systems .....	130	0.1	49
Computer systems analysts .....	130	0.1	21
Network and computer systems administrators .....	480	0.2	18
Network systems/data communications analysts .....	90	<	20
Mathematical scientists .....	40	<	(nc)
Operations and systems researchers and analysts .....	40	<	25
Engineers .....	80	<	(nc)
Industrial .....	30	<	19
Other engineers .....	50	<	(nc)
Safety .....	50	<	9
Technicians .....	350	0.2	(nc)
Computer, numerical tool, and process control programmers .....	350	0.2	(nc)
Computer programmers .....	350	0.2	11
Trucking terminal facilities (SIC 4230)			
Scientific and technical personnel.....	50	0.5	(nc)
Technicians .....	50	0.5	(nc)
Engineering technicians .....	50	0.5	(nc)
All other engineering technicians .....	50	0.5	(nc)
Transportation inspectors .....	50	0.5	24
Deep sea foreign transportation of freight (SIC 4410)			
Scientific and technical personnel.....	610	4.6	(nc)
Managers of scientific and technical personnel .....	220	1.7	(nc)
Computer and information systems managers .....	130	1.0	16
Engineering managers .....	90	0.7	32
Scientists .....	50	0.4	(nc)
Computer scientists .....	50	0.4	(nc)
Network and computer systems administrators .....	50	0.4	15
Engineers .....	100	0.8	(nc)
Other engineers .....	100	0.8	(nc)
Marine .....	100	0.8	24
Technicians .....	240	1.8	(nc)
Computer, numerical tool, and process control programmers .....	240	1.8	(nc)
Computer programmers .....	240	1.8	24

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Deep sea domestic transportation of freight (SIC 4420)			
Scientific and technical personnel.....	200	3.0	(nc)
Managers of scientific and technical personnel .....	40	0.6	(nc)
Computer and information systems managers .....	40	0.6	10
Engineers .....	110	1.7	(nc)
Other engineers .....	110	1.7	(nc)
Marine .....	110	1.7	11
Technicians .....	50	0.8	(nc)
Computer, numerical tool, and process control programmers .....	50	0.8	(nc)
Computer programmers .....	50	0.8	13
Water transportation of freight, n.e.c. (SIC 4440)			
Scientific and technical personnel.....	100	0.7	(nc)
Engineers .....	100	0.7	(nc)
Other engineers .....	100	0.7	(nc)
Marine .....	100	0.7	26
Water transportation of passengers (SIC 4480)			
Scientific and technical personnel.....	250	1.1	(nc)
Managers of scientific and technical personnel .....	50	0.2	(nc)
Computer and information systems managers .....	50	0.2	22
Engineers .....	200	0.9	(nc)
Other engineers .....	200	0.9	(nc)
Marine .....	200	0.9	49
Water transportation services (SIC 4490)			
Scientific and technical personnel.....	290	0.2	(nc)
Managers of scientific and technical personnel .....	90	0.1	(nc)
Computer and information systems managers .....	40	<	19
Engineering managers .....	50	<	20
Technicians .....	200	0.2	(nc)
Engineering technicians .....	200	0.2	(nc)
All other engineering technicians .....	200	0.2	(nc)
Transportation inspectors .....	200	0.2	29

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Air transportation, scheduled (SIC 4510)			
Scientific and technical personnel.....	19,550	1.8	(nc)
Managers of scientific and technical personnel .....	1,990	0.2	(nc)
Computer and information systems managers .....	1,410	0.1	16
Engineering managers .....	580	0.1	6
Scientists .....	7,200	0.7	(nc)
Computer scientists .....	4,880	0.5	(nc)
Computer software, applications .....	1,470	0.1	21
Computer software, systems .....	330	<	7
Computer systems analysts .....	1,530	0.1	11
Network and computer systems administrators .....	800	0.1	18
Network systems/data communications analysts .....	750	0.1	12
Mathematical scientists .....	1,120	0.1	(nc)
Operations and systems researchers and analysts .....	1,120	0.1	30
Physical scientists .....	110	<	(nc)
Atmospheric and space scientists .....	110	<	3
Social scientists .....	1,090	0.1	(nc)
Market research analysts .....	1,090	0.1	22
Engineers .....	4,460	0.4	(nc)
Aeronautical .....	3,990	0.4	23
Civil .....	50	<	24
Industrial .....	330	<	12
Other engineers .....	90	<	(nc)
Safety .....	90	<	12
Technicians .....	5,900	0.6	(nc)
Computer, numerical tool, and process control programmers .....	3,070	0.3	(nc)
Computer programmers .....	3,070	0.3	12
Engineering technicians .....	2,830	0.3	(nc)
Electrical/electronics engineering technicians .....	130	<	8
Industrial engineering technicians .....	240	<	18
All other engineering technicians .....	2,460	0.2	(nc)
Transportation inspectors .....	2,460	0.2	8
Air transportation, nonscheduled (SIC 4520)			
Scientific and technical personnel.....	250	0.5	(nc)
Managers of scientific and technical personnel .....	40	0.1	(nc)
Computer and information systems managers .....	40	0.1	23
Scientists .....	60	0.1	(nc)
Computer scientists .....	60	0.1	(nc)
Network and computer systems administrators .....	60	0.1	18

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Air transportation, nonscheduled (SIC 4520) -- continued:			
Engineers .....	30	0.1	(nc)
Aeronautical .....	30	0.1	12
Technicians .....	120	0.3	(nc)
Computer, numerical tool, and process control programmers .....	40	0.1	(nc)
Computer programmers .....	40	0.1	45
Engineering technicians .....	80	0.2	(nc)
All other engineering technicians .....	80	0.2	(nc)
Transportation inspectors .....	80	0.2	17
Airports, flying fields, and services (SIC 4580)			
Scientific and technical personnel.....	3,380	2.4	(nc)
Managers of scientific and technical personnel .....	200	0.1	(nc)
Computer and information systems managers .....	100	0.1	10
Engineering managers .....	100	0.1	15
Scientists .....	470	0.3	(nc)
Computer scientists .....	310	0.2	(nc)
Computer software, applications .....	40	<	33
Computer systems analysts .....	60	<	30
Network and computer systems administrators .....	160	0.1	16
Network systems/data communications analysts .....	50	<	34
Physical scientists .....	120	0.1	(nc)
Atmospheric and space scientists .....	120	0.1	5
Social scientists .....	40	<	(nc)
Market research analysts .....	40	<	27
Engineers .....	750	0.5	(nc)
Aeronautical .....	410	0.3	15
Electrical/electronics .....	80	0.1	(nc)
Electrical .....	50	<	21
Electronics .....	30	<	18
Industrial .....	70	0.1	27
Mechanical .....	90	0.1	26
Other engineers .....	100	0.1	(nc)
Safety .....	100	0.1	29
Technicians .....	1,960	1.4	(nc)
Computer, numerical tool, and process control programmers .....	180	0.1	(nc)
Computer programmers .....	180	0.1	13
Engineering technicians .....	1,780	1.3	(nc)
Aerospace engineering and operations technicians .....	230	0.2	22
Electrical/electronics engineering technicians .....	240	0.2	20
Industrial engineering technicians .....	40	<	45
Mechanical engineering technicians .....	50	<	45
All other engineering technicians .....	1,220	0.9	(nc)
Transportation inspectors .....	1,220	0.9	13

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Pipelines, except natural gas (SIC 4610)			
Scientific and technical personnel.....	1,080	7.9	(nc)
Managers of scientific and technical personnel .....	90	0.7	(nc)
Engineering managers .....	90	0.7	10
Scientists .....	60	0.4	(nc)
Computer scientists .....	60	0.4	(nc)
Computer systems analysts .....	60	0.4	14
Engineers .....	580	4.2	(nc)
Civil .....	170	1.2	18
Electrical/electronics .....	100	0.7	(nc)
Electrical .....	100	0.7	19
Industrial .....	60	0.4	14
Mechanical .....	60	0.4	13
Other engineers .....	190	1.4	(nc)
Environmental .....	70	0.5	12
Petroleum .....	70	0.5	18
Safety .....	50	0.4	19
Technicians .....	350	2.6	(nc)
Computer, numerical tool, and process control programmers .....	80	0.6	(nc)
Computer programmers .....	80	0.6	27
Engineering technicians .....	150	1.1	(nc)
Electrical/electronics engineering technicians .....	120	0.9	40
Mechanical engineering technicians .....	30	0.2	22
Physical and life science technicians .....	120	0.9	(nc)
Chemical technicians, except health .....	120	0.9	41
Passenger transportation arrangements (SIC 4720)			
Scientific and technical personnel.....	3,340	1.7	(nc)
Managers of scientific and technical personnel .....	510	0.3	(nc)
Computer and information systems managers .....	510	0.3	16
Scientists .....	1,840	1.0	(nc)
Computer scientists .....	1,700	0.9	(nc)
Computer software, applications .....	60	<	29
Computer systems analysts .....	1,020	0.5	15
Network and computer systems administrators .....	490	0.3	17
Network systems/data communications analysts .....	130	0.1	14
Mathematical scientists .....	40	<	(nc)
Operations and systems researchers and analysts .....	40	<	18
Social scientists .....	100	0.1	(nc)
Market research analysts .....	100	0.1	19

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Passenger transportation arrangements (SIC 4720) -- continued:			
Engineers .....	180	0.1	(nc)
Computer .....	180	0.1	43
Technicians .....	810	0.4	(nc)
Computer, numerical tool, and process control programmers .....	810	0.4	(nc)
Computer programmers .....	810	0.4	16
Freight transportation arrangements (SIC 4730)			
Scientific and technical personnel.....	2,480	1.3	(nc)
Managers of scientific and technical personnel .....	450	0.2	(nc)
Computer and information systems managers .....	450	0.2	9
Scientists .....	660	0.4	(nc)
Computer scientists .....	440	0.2	(nc)
Computer systems analysts .....	90	0.1	15
Network and computer systems administrators .....	260	0.1	12
Network systems/data communications analysts .....	90	0.1	19
Mathematical scientists .....	130	0.1	(nc)
Operations and systems researchers and analysts .....	130	0.1	25
Social scientists .....	90	0.1	(nc)
Market research analysts .....	90	0.1	45
Engineers .....	130	0.1	(nc)
Sales .....	40	<	48
Other engineers .....	90	0.1	(nc)
Marine .....	40	<	33
Safety .....	50	<	18
Technicians .....	1,240	0.7	(nc)
Computer, numerical tool, and process control programmers .....	980	0.5	(nc)
Computer programmers .....	980	0.5	9
Engineering technicians .....	260	0.1	(nc)
All other engineering technicians .....	260	0.1	(nc)
Transportation inspectors .....	260	0.1	28
Rental of railroad cars (SIC 4740)			
Scientific and technical personnel.....	40	2.1	(nc)
Engineers .....	40	2.1	(nc)
Mechanical .....	40	2.1	36

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Misc. transportation services (SIC 4780)			
Scientific and technical personnel.....	1,170	2.2	(nc)
Engineers .....	140	0.3	(nc)
Industrial .....	40	0.1	36
Other engineers .....	100	0.2	(nc)
Marine .....	100	0.2	33
Technicians .....	1,030	1.9	(nc)
Engineering technicians .....	760	1.4	(nc)
All other engineering technicians .....	760	1.4	(nc)
Transportation inspectors .....	760	1.4	11
Physical and life science technicians .....	40	0.1	(nc)
Chemical technicians, except health .....	40	0.1	17
Surveying, cartographic, photogrammetric, and mapping technicians .....	230	0.4	(nc)
Surveyors .....	230	0.4	48
Telephone communications (SIC 4810)			
Scientific and technical personnel.....	134,540	11.8	(nc)
Managers of scientific and technical personnel .....	13,390	1.2	(nc)
Computer and information systems managers .....	6,750	0.6	6
Engineering managers .....	6,640	0.6	6
Scientists .....	66,340	5.8	(nc)
Computer scientists .....	59,350	5.2	(nc)
Computer and information scientists, research .....	310	<	50
Computer software, applications .....	9,500	0.8	8
Computer software, systems .....	19,040	1.7	10
Computer systems analysts .....	10,410	0.9	6
Network and computer systems administrators .....	12,660	1.1	9
Network systems/data communications analysts .....	7,430	0.7	6
Mathematical scientists .....	1,820	0.2	(nc)
Operations and systems researchers and analysts .....	1,780	0.2	9
Statisticians .....	40	<	21
Social scientists .....	5,170	0.5	(nc)
Economists .....	290	<	14
Market research analysts .....	4,880	0.4	9

See explanatory information and SOURCE at end of table.



Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Telephone communications (SIC 4810) -- continued:			
Engineers .....	31,770	2.8	(nc)
Civil .....	450	<	11
Computer .....	4,380	0.4	8
Electrical/electronics .....	22,710	2.0	(nc)
Electrical .....	4,960	0.4	12
Electronics .....	17,750	1.6	8
Industrial .....	1,000	0.1	13
Mechanical .....	90	<	24
Sales .....	3,050	0.3	10
Other engineers .....	90	<	(nc)
Safety .....	90	<	39
Technicians .....	23,040	2.0	(nc)
Computer, numerical tool, and process control programmers .....	3,640	0.3	(nc)
Computer programmers .....	3,640	0.3	7
Drafters .....	1,130	0.1	(nc)
Architectural and civil drafters .....	120	<	20
Electrical and electronics drafters .....	800	0.1	7
Mechanical drafters .....	210	<	14
Engineering technicians .....	18,270	1.6	(nc)
Civil engineering technicians .....	1,110	0.1	18
Electrical/electronics engineering technicians .....	16,680	1.5	9
Mechanical engineering technicians .....	110	<	16
All other engineering technicians .....	370	<	(nc)
Audio and video equipment technicians .....	180	<	22
Broadcast technicians .....	190	<	48
Telegraph and other communications (SIC 4820)			
Scientific and technical personnel.....	3,920	29.6	(nc)
Managers of scientific and technical personnel .....	630	4.8	(nc)
Computer and information systems managers .....	520	3.9	24
Engineering managers .....	110	0.8	23
Scientists .....	2,140	16.1	(nc)
Computer scientists .....	2,090	15.8	(nc)
Computer software, applications .....	390	2.9	29
Computer software, systems .....	230	1.7	29
Computer systems analysts .....	980	7.4	30
Network and computer systems administrators .....	170	1.3	27
Network systems/data communications analysts .....	320	2.4	34
Social scientists .....	50	0.4	(nc)
Market research analysts .....	50	0.4	20
Engineers .....	70	0.5	(nc)
Sales .....	70	0.5	43

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Telegraph and other communications (SIC 4820) -- continued:			
Technicians .....	1,080	8.1	(nc)
Computer, numerical tool, and process control programmers .....	260	2.0	(nc)
Computer programmers .....	260	2.0	16
Engineering technicians .....	820	6.2	(nc)
Electrical/electronics engineering technicians .....	820	6.2	16
Radio and television broadcasting (SIC 4830)			
Scientific and technical personnel.....	34,790	13.9	(nc)
Managers of scientific and technical personnel .....	2,180	0.9	(nc)
Computer and information systems managers .....	800	0.3	10
Engineering managers .....	1,380	0.6	5
Scientists .....	2,630	1.1	(nc)
Computer scientists .....	1,650	0.7	(nc)
Computer and information scientists, research .....	60	<	30
Computer software, applications .....	150	0.1	12
Computer software, systems .....	140	0.1	25
Computer systems analysts .....	190	0.1	15
Network and computer systems administrators .....	550	0.2	9
Network systems/data communications analysts .....	560	0.2	8
Mathematical scientists .....	90	<	(nc)
Operations and systems researchers and analysts .....	90	<	27
Physical scientists .....	430	0.2	(nc)
Atmospheric and space scientists .....	430	0.2	8
Social scientists .....	460	0.2	(nc)
Market research analysts .....	460	0.2	9
Engineers .....	1,900	0.8	(nc)
Computer .....	70	<	13
Electrical/electronics .....	1,330	0.5	(nc)
Electrical .....	290	0.1	17
Electronics .....	1,040	0.4	30
Industrial .....	450	0.2	39
Mechanical .....	50	<	46
Technicians .....	28,080	11.2	(nc)
Computer, numerical tool, and process control programmers .....	350	0.1	(nc)
Computer programmers .....	350	0.1	12
Engineering technicians .....	27,730	11.1	(nc)
Electrical/electronics engineering technicians .....	1,610	0.6	7
All other engineering technicians .....	26,120	10.4	(nc)
Audio and video equipment technicians .....	4,160	1.7	6
Broadcast technicians .....	21,960	8.8	5

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Cable and other pay TV services (SIC 4840)			
Scientific and technical personnel.....	15,610	6.8	(nc)
Managers of scientific and technical personnel .....	1,950	0.9	(nc)
Computer and information systems managers .....	1,030	0.5	9
Engineering managers .....	920	0.4	8
Scientists .....	5,140	2.2	(nc)
Computer scientists .....	4,440	1.9	(nc)
Computer and information scientists, research .....	30	<	24
Computer software, applications .....	530	0.2	11
Computer software, systems .....	270	0.1	10
Computer systems analysts .....	490	0.2	9
Network and computer systems administrators .....	1,660	0.7	15
Network systems/data communications analysts .....	1,460	0.6	11
Mathematical scientists .....	90	<	(nc)
Operations and systems researchers and analysts .....	90	<	19
Physical scientists .....	80	<	(nc)
Atmospheric and space scientists .....	80	<	14
Social scientists .....	530	0.2	(nc)
Market research analysts .....	530	0.2	10
Engineers .....	1,470	0.7	(nc)
Computer .....	270	0.1	18
Electrical/electronics .....	790	0.4	(nc)
Electrical .....	290	0.1	14
Electronics .....	500	0.2	16
Industrial .....	280	0.1	19
Mechanical .....	40	<	25
Sales .....	60	<	17
Other engineers .....	30	<	(nc)
Safety .....	30	<	22
Technicians .....	7,050	3.1	(nc)
Computer, numerical tool, and process control programmers .....	370	0.2	(nc)
Computer programmers .....	370	0.2	13
Drafters .....	490	0.2	(nc)
Architectural and civil drafters .....	40	<	25
Electrical and electronics drafters .....	380	0.2	11
Mechanical drafters .....	70	<	31
Engineering technicians .....	6,190	2.7	(nc)
Electrical/electronics engineering technicians .....	1,710	0.8	10
Industrial engineering technicians .....	130	0.1	31
All other engineering technicians .....	4,350	1.9	(nc)
Audio and video equipment technicians .....	1,640	0.7	15
Broadcast technicians .....	2,710	1.2	12

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Communications services, n.e.c. (SIC 4890)			
Scientific and technical personnel.....	5,220	15.6	(nc)
Managers of scientific and technical personnel .....	600	1.8	(nc)
Computer and information systems managers .....	340	1.0	14
Engineering managers .....	260	0.8	15
Scientists .....	1,670	5.0	(nc)
Computer scientists .....	1,640	4.9	(nc)
Computer software, applications .....	280	0.8	17
Computer software, systems .....	560	1.7	16
Computer systems analysts .....	200	0.6	14
Network and computer systems administrators .....	500	1.5	16
Network systems/data communications analysts .....	100	0.3	10
Social scientists .....	30	0.1	(nc)
Market research analysts .....	30	0.1	18
Engineers .....	1,010	3.0	(nc)
Computer .....	100	0.3	13
Electrical/electronics .....	780	2.3	(nc)
Electrical .....	250	0.7	28
Electronics .....	530	1.6	30
Industrial .....	130	0.4	23
Technicians .....	1,940	5.8	(nc)
Computer, numerical tool, and process control programmers .....	100	0.3	(nc)
Computer programmers .....	100	0.3	16
Drafters .....	110	0.3	(nc)
Electrical and electronics drafters .....	110	0.3	18
Engineering technicians .....	1,690	5.0	(nc)
Electronical/electronics engineering technicians .....	1,150	3.4	30
All other engineering technicians .....	540	1.6	(nc)
Audio and video equipment technicians .....	70	0.2	22
Broadcast technicians .....	470	1.4	30
Surveying, cartographic, photogrammetric, and mapping technicians .....	40	0.1	(nc)
Cartographers and photogrammetrists .....	40	0.1	49
Electric services (SIC 4910)			
Scientific and technical personnel.....	48,260	13.2	(nc)
Managers of scientific and technical personnel .....	4,660	1.3	(nc)
Computer and information systems managers .....	1,050	0.3	7
Engineering managers .....	3,260	0.9	8
Natural sciences managers .....	350	0.1	34

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Electric services (SIC 4910) -- continued:			
Scientists .....	10,140	2.8	(nc)
Computer scientists .....	6,540	1.8	(nc)
Computer and information scientists, research .....	30	<	16
Computer software, applications .....	1,020	0.3	12
Computer software, systems .....	550	0.2	15
Computer systems analysts .....	2,650	0.7	11
Network and computer systems administrators .....	1,040	0.3	9
Network systems/data communications analysts .....	1,250	0.3	16
Life scientists .....	130	<	(nc)
Foresters .....	130	<	13
Mathematical scientists .....	910	0.3	(nc)
Operations and systems researchers and analysts .....	910	0.3	20
Physical scientists .....	1,320	0.4	(nc)
Chemists .....	490	0.1	19
Environmental scientists and specialists, including health .....	720	0.2	19
Physicists .....	110	<	12
Social scientists .....	1,240	0.3	(nc)
Market research analysts .....	1,150	0.3	6
Urban and regional planners .....	90	<	10
Engineers .....	17,130	4.7	(nc)
Civil .....	1,420	0.4	13
Computer .....	160	<	32
Electrical/electronics .....	6,500	1.8	(nc)
Electrical .....	5,970	1.6	5
Electronics .....	530	0.2	20
Industrial .....	880	0.2	11
Mechanical .....	850	0.2	8
Sales .....	90	<	13
Other engineers .....	7,230	2.0	(nc)
Chemical .....	110	<	8
Environmental .....	380	0.1	9
Metallurgical/metallurgists .....	60	<	22
Mining and geological .....	140	<	24
Nuclear .....	5,660	1.6	12
Petroleum .....	400	0.1	28
Safety .....	480	0.1	6
Technicians .....	16,330	4.5	(nc)
Computer, numerical tool, and process control programmers .....	2,060	0.6	(nc)
Computer programmers .....	2,060	0.6	8
Drafters .....	1,770	0.5	(nc)
Architectural and civil drafters .....	140	<	23
Electrical and electronics drafters .....	1,110	0.3	7
Mechanical drafters .....	520	0.1	13

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Electric services (SIC 4910) -- continued:			
Engineering technicians .....	6,800	1.9	(nc)
Civil engineering technicians .....	930	0.3	15
Electrical/electronics engineering technicians .....	4,360	1.2	4
Electro-mechanical technicians .....	360	0.1	13
Environmental engineering technicians .....	320	0.1	9
Industrial engineering technicians .....	510	0.1	39
Mechanical engineering technicians .....	270	0.1	14
All other engineering technicians .....	50	<	(nc)
Audio and video equipment technicians .....	50	<	27
Mathematical technicians .....	30	<	18
Physical and life science technicians .....	3,870	1.1	(nc)
Chemical technicians, except health .....	1,030	0.3	6
Environmental science and protection technicians, including health .....	520	0.1	9
Geological and petroleum technicians .....	160	<	27
Nuclear technicians .....	2,160	0.6	13
Surveying, cartographic, photogrammetric, and mapping technicians .....	1,800	0.5	(nc)
Cartographers and photogrammetrists .....	180	0.1	17
Surveying and mapping technicians .....	1,210	0.3	6
Surveyors .....	410	0.1	9
Gas production and distribution (SIC 4920)			
Scientific and technical personnel.....	9,250	7.4	(nc)
Managers of scientific and technical personnel .....	1,070	0.9	(nc)
Computer and information systems managers .....	450	0.4	10
Engineering managers .....	620	0.5	7
Scientists .....	2,330	1.9	(nc)
Computer scientists .....	1,680	1.4	(nc)
Computer software, applications .....	370	0.3	10
Computer software, systems .....	130	0.1	23
Computer systems analysts .....	670	0.5	22
Network and computer systems administrators .....	270	0.2	11
Network systems/data communications analysts .....	240	0.2	20
Mathematical scientists .....	50	<	(nc)
Operations and systems researchers and analysts .....	50	<	39
Physical scientists .....	40	<	(nc)
Environmental scientists and specialists, including health .....	40	<	34
Social scientists .....	560	0.5	(nc)
Market research analysts .....	560	0.5	10

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Gas production and distribution (SIC 4920) -- continued:			
Engineers .....	2,730	2.2	(nc)
Civil .....	410	0.3	9
Electrical/electronics .....	470	0.4	(nc)
Electrical .....	410	0.3	18
Electronics .....	60	0.1	23
Industrial .....	110	0.1	13
Mechanical .....	400	0.3	15
Other engineers .....	1,340	1.1	(nc)
Chemical .....	550	0.4	34
Environmental .....	240	0.2	20
Metallurgical/metallurgists .....	80	0.1	26
Nuclear .....	30	<	44
Petroleum .....	290	0.2	26
Safety .....	150	0.1	12
Technicians .....	3,120	2.5	(nc)
Computer, numerical tool, and process control programmers .....	720	0.6	(nc)
Computer programmers .....	720	0.6	19
Drafters .....	470	0.4	(nc)
Architectural and civil drafters .....	180	0.1	19
Electrical and electronics drafters .....	160	0.1	19
Mechanical drafters .....	130	0.1	37
Engineering technicians .....	850	0.7	(nc)
Civil engineering technicians .....	210	0.2	13
Electronical/electronics engineering technicians .....	490	0.4	19
Environmental engineering technicians .....	80	0.1	16
Mechanical engineering technicians .....	70	0.1	17
Physical and life science technicians .....	490	0.4	(nc)
Chemical technicians, except health .....	90	0.1	25
Environmental science and protection technicians, including health .....	90	0.1	18
Geological and petroleum technicians .....	310	0.3	22
Surveying, cartographic, photogrammetric, and mapping technicians .....	590	0.5	(nc)
Surveying and mapping technicians .....	370	0.3	13
Surveyors .....	220	0.2	21
Combination utility services (SIC 4930)			
Scientific and technical personnel.....	18,870	13.0	(nc)
Managers of scientific and technical personnel .....	1,570	1.1	(nc)
Computer and information systems managers .....	550	0.4	16
Engineering managers .....	980	0.7	7
Natural sciences managers .....	40	<	23

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Combination utility services (SIC 4930) -- continued:			
Scientists .....	3,760	2.6	(nc)
Computer scientists .....	3,120	2.1	(nc)
Computer software, applications .....	590	0.4	11
Computer software, systems .....	60	<	9
Computer systems analysts .....	1,940	1.3	14
Network and computer systems administrators .....	270	0.2	6
Network systems/data communications analysts .....	260	0.2	11
Life scientists .....	70	0.1	(nc)
Foresters .....	70	0.1	12
Mathematical scientists .....	100	0.1	(nc)
Operations and systems researchers and analysts .....	100	0.1	9
Physical scientists .....	270	0.2	(nc)
Chemists .....	90	0.1	25
Environmental scientists and specialists, including health .....	140	0.1	9
Geoscientists, except hydrologists and geographers .....	40	<	18
Social scientists .....	200	0.1	(nc)
Market research analysts .....	200	0.1	11
Engineers .....	5,890	4.0	(nc)
Civil .....	240	0.2	12
Electrical/electronics .....	3,200	2.2	(nc)
Electrical .....	3,110	2.1	8
Electronics .....	90	0.1	10
Industrial .....	350	0.2	15
Mechanical .....	410	0.3	20
Other engineers .....	1,690	1.2	(nc)
Chemical .....	90	0.1	9
Environmental .....	210	0.1	12
Metallurgical/metallurgists .....	40	<	38
Nuclear .....	1,000	0.7	20
Petroleum .....	220	0.2	14
Safety .....	130	0.1	6
Technicians .....	7,650	5.3	(nc)
Computer, numerical tool, and process control programmers .....	520	0.4	(nc)
Computer programmers .....	520	0.4	13
Drafters .....	1,410	1.0	(nc)
Architectural and civil drafters .....	60	<	31
Electrical and electronics drafters .....	1,320	0.9	10
Mechanical drafters .....	30	<	33
Engineering technicians .....	4,030	2.8	(nc)
Civil engineering technicians .....	180	0.1	16
Electrical/electronics engineering technicians .....	3,110	2.1	5
Electro-mechanical technicians .....	120	0.1	12
Environmental engineering technicians .....	370	0.3	14
Industrial engineering technicians .....	70	0.1	50
Mechanical engineering technicians .....	180	0.1	13

See explanatory information and SOURCE at end of table.



Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Combination utility services (SIC 4930) -- continued:			
Physical and life science technicians .....	1,010	0.7	(nc)
Chemical technicians, except health .....	350	0.2	12
Environmental science and protection technicians, including health .....	110	0.1	13
Nuclear technicians .....	550	0.4	12
Surveying, cartographic, photogrammetric, and mapping technicians .....	680	0.5	(nc)
Surveying and mapping technicians .....	580	0.4	4
Surveyors .....	100	0.1	15
Water supply (SIC 4940)			
Scientific and technical personnel.....	1,190	3.3	(nc)
Managers of scientific and technical personnel .....	310	0.9	(nc)
Computer and information systems managers .....	150	0.4	30
Engineering managers .....	160	0.5	7
Scientists .....	230	0.6	(nc)
Computer scientists .....	130	0.4	(nc)
Computer software, applications .....	40	0.1	13
Network and computer systems administrators .....	90	0.3	11
Physical scientists .....	100	0.3	(nc)
Chemists .....	40	0.1	12
Environmental scientists and specialists, including health .....	60	0.2	22
Engineers .....	290	0.8	(nc)
Civil .....	220	0.6	9
Electrical/electronics .....	30	0.1	(nc)
Electrical .....	30	0.1	27
Other engineers .....	40	0.1	(nc)
Environmental .....	40	0.1	17
Technicians .....	360	1.0	(nc)
Computer, numerical tool, and process control programmers .....	80	0.2	(nc)
Computer programmers .....	80	0.2	9
Engineering technicians .....	90	0.3	(nc)
Civil engineering technicians .....	90	0.3	8
Physical and life science technicians .....	190	0.5	(nc)
Chemical technicians, except health .....	140	0.4	16
Environmental science and protection technicians, including health .....	50	0.1	11

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Sanitary services (SIC 4950)			
Scientific and technical personnel.....	11,110	6.3	(nc)
Managers of scientific and technical personnel .....	840	0.5	(nc)
Engineering managers .....	840	0.5	8
Scientists .....	2,390	1.3	(nc)
Computer scientists .....	450	0.3	(nc)
Computer systems analysts .....	200	0.1	11
Network and computer systems administrators .....	160	0.1	14
Network systems/data communications analysts .....	90	0.1	18
Physical scientists .....	1,940	1.1	(nc)
Chemists .....	570	0.3	7
Environmental scientists and specialists, including health .....	1,050	0.6	12
Geoscientists, except hydrologists and geographers .....	150	0.1	16
Physicists .....	170	0.1	12
Engineers .....	4,600	2.6	(nc)
Civil .....	630	0.4	12
Electrical/electronics .....	190	0.1	(nc)
Electrical .....	190	0.1	15
Mechanical .....	550	0.3	9
Sales .....	230	0.1	25
Other engineers .....	3,000	1.7	(nc)
Chemical .....	210	0.1	3
Environmental .....	1,280	0.7	11
Nuclear .....	1,150	0.7	21
Safety .....	360	0.2	5
Technicians .....	3,280	1.9	(nc)
Engineering technicians .....	1,680	1.0	(nc)
Civil engineering technicians .....	190	0.1	10
Environmental engineering technicians .....	1,400	0.8	14
Mechanical engineering technicians .....	50	<	15
All other engineering technicians .....	40	<	(nc)
Transportation inspectors .....	40	<	29
Physical and life science technicians .....	1,600	0.9	(nc)
Chemical technicians, except health .....	370	0.2	13
Environmental science and protection technicians, including health .....	1,230	0.7	15
Steam and air-conditioning supply (SIC 4960)			
Scientific and technical personnel.....	30	1.5	(nc)
Managers of scientific and technical personnel .....	30	1.5	(nc)
Engineering managers .....	30	1.5	10

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Motor vehicles, parts, and supplies (SIC 5010)			
Scientific and technical personnel.....	5,170	1.0	(nc)
Managers of scientific and technical personnel .....	1,020	0.2	(nc)
Computer and information systems managers .....	660	0.1	6
Engineering managers .....	360	0.1	14
Scientists .....	910	0.2	(nc)
Computer scientists .....	720	0.2	(nc)
Computer software, applications .....	50	<	40
Computer systems analysts .....	230	0.1	18
Network and computer systems administrators .....	380	0.1	9
Network systems/data communications analysts .....	60	<	16
Mathematical scientists .....	50	<	(nc)
Operations and systems researchers and analysts .....	50	<	43
Social scientists .....	140	<	(nc)
Market research analysts .....	140	<	19
Engineers .....	1,310	0.3	(nc)
Industrial .....	450	0.1	25
Mechanical .....	640	0.1	17
Sales .....	220	<	46
Technicians .....	1,930	0.4	(nc)
Computer, numerical tool, and process control programmers .....	900	0.2	(nc)
Computer programmers .....	900	0.2	13
Drafters .....	30	<	(nc)
Architectural and civil drafters .....	30	<	26
Engineering technicians .....	1,000	0.2	(nc)
Electrical/electronics engineering technicians .....	430	0.1	33
Electro-mechanical technicians .....	110	<	27
Industrial engineering technicians .....	60	<	25
Mechanical engineering technicians .....	180	<	17
All other engineering technicians .....	220	<	(nc)
Transportation inspectors .....	220	<	26
Furniture and homefurnishings (SIC 5020)			
Scientific and technical personnel.....	980	0.6	(nc)
Managers of scientific and technical personnel .....	280	0.2	(nc)
Computer and information systems managers .....	250	0.2	6
Engineering managers .....	30	<	11
Scientists .....	340	0.2	(nc)
Computer scientists .....	200	0.1	(nc)
Network and computer systems administrators .....	200	0.1	6
Social scientists .....	140	0.1	(nc)
Market research analysts .....	140	0.1	21

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Furniture and homefurnishings (SIC 5020) -- continued:			
Engineers .....	120	0.1	(nc)
Industrial .....	40	<	18
Sales .....	80	0.1	26
Technicians .....	240	0.2	(nc)
Computer, numerical tool, and process control programmers .....	240	0.2	(nc)
Computer programmers .....	240	0.2	11
Lumber and construction materials (SIC 5030)			
Scientific and technical personnel.....	1,870	0.7	(nc)
Managers of scientific and technical personnel .....	330	0.1	(nc)
Computer and information systems managers .....	230	0.1	8
Engineering managers .....	100	<	11
Scientists .....	300	0.1	(nc)
Computer scientists .....	240	0.1	(nc)
Computer systems analysts .....	90	<	21
Network and computer systems administrators .....	150	0.1	8
Social scientists .....	60	<	(nc)
Market research analysts .....	60	<	16
Engineers .....	150	0.1	(nc)
Civil .....	50	<	27
Sales .....	100	<	15
Technicians .....	1,090	0.4	(nc)
Computer, numerical tool, and process control programmers .....	140	0.1	(nc)
Computer programmers .....	140	0.1	10
Drafters .....	740	0.3	(nc)
Architectural and civil drafters .....	670	0.2	16
Mechanical drafters .....	70	<	23
Engineering technicians .....	160	0.1	(nc)
Civil engineering technicians .....	30	<	37
Electrical/electronics engineering technicians .....	130	0.1	41
Physical and life science technicians .....	50	<	(nc)
Chemical technicians, except health .....	50	<	41
Professional and commercial equipment (SIC 5040)			
Scientific and technical personnel.....	116,760	13.0	(nc)
Managers of scientific and technical personnel .....	11,240	1.3	(nc)
Computer and information systems managers .....	9,240	1.0	10
Engineering managers .....	1,940	0.2	8
Natural sciences managers .....	60	<	24

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Professional and commercial equipment (SIC 5040) -- continued:			
Scientists .....	45,360	5.1	(nc)
Computer scientists .....	40,210	4.5	(nc)
Computer and information scientists, research .....	660	0.1	39
Computer software, applications .....	9,050	1.0	9
Computer software, systems .....	9,420	1.1	12
Computer systems analysts .....	11,560	1.3	7
Network and computer systems administrators .....	6,240	0.7	6
Network systems/data communications analysts .....	3,280	0.4	7
Mathematical scientists .....	1,040	0.1	(nc)
Operations and systems researchers and analysts .....	770	0.1	23
Statisticians .....	270	<	42
Physical scientists .....	90	<	(nc)
Chemists .....	90	<	27
Social scientists .....	4,020	0.5	(nc)
Market research analysts .....	4,020	0.5	5
Engineers .....	17,500	2.0	(nc)
Computer .....	2,060	0.2	12
Electrical/electronics .....	3,100	0.3	(nc)
Electrical .....	2,160	0.2	13
Electronics .....	940	0.1	17
Industrial .....	520	0.1	22
Mechanical .....	830	0.1	15
Sales .....	10,670	1.2	8
Other engineers .....	320	<	(nc)
Biomedical .....	260	<	35
Safety .....	60	<	19
Technicians .....	42,660	4.8	(nc)
Computer, numerical tool, and process control programmers .....	28,520	3.2	(nc)
Computer programmers .....	28,520	3.2	5
Drafters .....	410	<	(nc)
Architectural and civil drafters .....	130	<	22
Electrical and electronics drafters .....	90	<	34
Mechanical drafters .....	190	<	22
Engineering technicians .....	13,680	1.5	(nc)
Electrical/electronics engineering technicians .....	8,780	1.0	16
Electro-mechanical technicians .....	4,160	0.5	19
Industrial engineering technicians .....	280	<	33
Mechanical engineering technicians .....	460	0.1	19
Physical and life science technicians .....	50	<	(nc)
Chemical technicians, except health .....	50	<	39

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
<b>Metals and minerals, except petroleum (SIC 5050)</b>			
Scientific and technical personnel.....	1,740	1.2	(nc)
Managers of scientific and technical personnel .....	300	0.2	(nc)
Computer and information systems managers .....	220	0.2	13
Engineering managers .....	80	0.1	11
Scientists .....	150	0.1	(nc)
Computer scientists .....	100	0.1	(nc)
Network and computer systems administrators .....	100	0.1	8
Social scientists .....	50	<	(nc)
Market research analysts .....	50	<	29
Engineers .....	420	0.3	(nc)
Industrial .....	40	<	21
Mechanical .....	50	<	15
Sales .....	240	0.2	17
Other engineers .....	90	0.1	(nc)
Metallurgical/metallurgists .....	90	0.1	29
Technicians .....	870	0.6	(nc)
Computer, numerical tool, and process control programmers .....	250	0.2	(nc)
Computer programmers .....	250	0.2	9
Drafters .....	320	0.2	(nc)
Architectural and civil drafters .....	220	0.2	14
Mechanical drafters .....	100	0.1	15
Engineering technicians .....	300	0.2	(nc)
Electronical/electronics engineering technicians .....	250	0.2	46
Electro-mechanical technicians .....	50	<	48
<b>Electrical goods (SIC 5060)</b>			
Scientific and technical personnel.....	50,670	9.4	(nc)
Managers of scientific and technical personnel .....	4,450	0.8	(nc)
Computer and information systems managers .....	1,960	0.4	6
Engineering managers .....	2,490	0.5	8
Scientists .....	6,480	1.2	(nc)
Computer scientists .....	5,720	1.1	(nc)
Computer software, applications .....	1,100	0.2	11
Computer software, systems .....	1,260	0.2	32
Computer systems analysts .....	1,090	0.2	14
Network and computer systems administrators .....	1,510	0.3	6
Network systems/data communications analysts .....	760	0.1	31
Mathematical scientists .....	130	<	(nc)
Operations and systems researchers and analysts .....	130	<	21
Social scientists .....	630	0.1	(nc)
Market research analysts .....	630	0.1	20

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Electrical goods (SIC 5060) -- continued:			
Engineers .....	22,330	4.2	(nc)
Aeronautical .....	60	<	47
Computer .....	480	0.1	21
Electrical/electronics .....	13,760	2.6	(nc)
Electrical .....	3,750	0.7	10
Electronics .....	10,010	1.9	13
Industrial .....	730	0.1	15
Mechanical .....	970	0.2	12
Sales .....	6,140	1.1	16
Other engineers .....	190	<	(nc)
Environmental .....	30	<	43
Metallurgical/metallurgists .....	90	<	28
Safety .....	70	<	32
Technicians .....	17,410	3.2	(nc)
Computer, numerical tool, and process control programmers .....	2,860	0.5	(nc)
Computer programmers .....	2,860	0.5	8
Drafters .....	680	0.1	(nc)
Architectural and civil drafters .....	140	<	22
Electrical and electronics drafters .....	440	0.1	27
Mechanical drafters .....	100	<	39
Engineering technicians .....	13,870	2.6	(nc)
Aerospace engineering and operations technicians .....	40	<	37
Electrical/electronics engineering technicians .....	11,860	2.2	8
Electro-mechanical technicians .....	1,610	0.3	11
Industrial engineering technicians .....	100	<	17
Mechanical engineering technicians .....	210	<	17
All other engineering technicians .....	50	<	(nc)
Audio and video equipment technicians .....	50	<	37
Hardware, plumbing, and heating equipment (SIC 5070)			
Scientific and technical personnel.....	5,630	1.9	(nc)
Managers of scientific and technical personnel .....	570	0.2	(nc)
Computer and information systems managers .....	380	0.1	9
Engineering managers .....	190	0.1	10
Scientists .....	680	0.2	(nc)
Computer scientists .....	590	0.2	(nc)
Computer software, applications .....	60	<	34
Computer systems analysts .....	140	0.1	18
Network and computer systems administrators .....	330	0.1	8
Network systems/data communications analysts .....	60	<	35
Social scientists .....	90	<	(nc)
Market research analysts .....	90	<	31

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Hardware, plumbing, and heating equipment (SIC 5070) -- continued:			
Engineers .....	2,600	0.9	(nc)
Electrical/electronics .....	220	0.1	(nc)
Electrical .....	140	0.1	11
Electronics .....	80	<	28
Industrial .....	140	0.1	36
Mechanical .....	1,250	0.4	21
Sales .....	950	0.3	12
Other engineers .....	40	<	(nc)
Environmental .....	40	<	40
Technicians .....	1,780	0.6	(nc)
Computer, numerical tool, and process control programmers .....	460	0.2	(nc)
Computer programmers .....	460	0.2	13
Drafters .....	190	0.1	(nc)
Mechanical drafters .....	190	0.1	33
Engineering technicians .....	1,130	0.4	(nc)
Electrical/electronics engineering technicians .....	660	0.2	16
Electro-mechanical technicians .....	330	0.1	26
Mechanical engineering technicians .....	140	0.1	19
Machinery, equipment, and supplies (SIC 5080)			
Scientific and technical personnel.....	25,390	3.2	(nc)
Managers of scientific and technical personnel .....	2,150	0.3	(nc)
Computer and information systems managers .....	1,100	0.1	7
Engineering managers .....	1,050	0.1	12
Scientists .....	2,030	0.3	(nc)
Computer scientists .....	1,720	0.2	(nc)
Computer software, applications .....	320	<	18
Computer software, systems .....	170	<	27
Computer systems analysts .....	260	<	13
Network and computer systems administrators .....	830	0.1	9
Network systems/data communications analysts .....	140	<	31
Mathematical scientists .....	30	<	(nc)
Operations and systems researchers and analysts .....	30	<	46
Physical scientists .....	70	<	(nc)
Chemists .....	70	<	38
Social scientists .....	210	<	(nc)
Market research analysts .....	210	<	17

See explanatory information and SOURCE at end of table.



Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Machinery, equipment, and supplies (SIC 5080) -- continued:			
Engineers .....	10,950	1.4	(nc)
Aeronautical .....	260	<	23
Civil .....	40	<	41
Electrical/electronics .....	1,430	0.2	(nc)
Electrical .....	1,140	0.1	21
Electronics .....	290	<	21
Industrial .....	800	0.1	28
Mechanical .....	4,310	0.5	14
Sales .....	3,900	0.5	12
Other engineers .....	210	<	(nc)
Metallurgical/metallurgists .....	170	<	46
Safety .....	40	<	20
Technicians .....	10,260	1.3	(nc)
Computer, numerical tool, and process control programmers .....	1,400	0.2	(nc)
Computer programmers .....	1,240	0.2	14
Numerical tool and process control programmers .....	160	<	41
Drafters .....	850	0.1	(nc)
Architectural and civil drafters .....	450	0.1	39
Mechanical drafters .....	400	0.1	31
Engineering technicians .....	7,780	1.0	(nc)
Aerospace engineering and operations technicians .....	120	<	40
Electronical/electronics engineering technicians .....	4,310	0.5	11
Electro-mechanical technicians .....	2,290	0.3	13
Environmental engineering technicians .....	100	<	36
Industrial engineering technicians .....	220	<	21
Mechanical engineering technicians .....	700	0.1	11
All other engineering technicians .....	40	<	(nc)
Transportation inspectors .....	40	<	44
Physical and life science technicians .....	230	<	(nc)
Chemical technicians, except health .....	190	<	43
Geological and petroleum technicians .....	40	<	35
Miscellaneous durable goods (SIC 5090)			
Scientific and technical personnel.....	3,420	1.1	(nc)
Managers of scientific and technical personnel .....	590	0.2	(nc)
Computer and information systems managers .....	470	0.2	12
Engineering managers .....	120	<	9
Scientists .....	970	0.3	(nc)
Computer scientists .....	540	0.2	(nc)
Computer software, applications .....	90	<	24
Computer software, systems .....	40	<	45
Network and computer systems administrators .....	300	0.1	14
Network systems/data communications analysts .....	110	<	24

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Miscellaneous durable goods (SIC 5090) -- continued:			
Life scientists .....	190	0.1	(nc)
Foresters .....	190	0.1	40
Physical scientists .....	30	<	(nc)
Chemists .....	30	<	27
Social scientists .....	210	0.1	(nc)
Market research analysts .....	210	0.1	30
Engineers .....	540	0.2	(nc)
Electrical/electronics .....	90	<	(nc)
Electrical .....	40	<	35
Electronics .....	50	<	27
Industrial .....	30	<	8
Mechanical .....	110	<	17
Sales .....	270	0.1	47
Other engineers .....	40	<	(nc)
Safety .....	40	<	6
Technicians .....	1,320	0.4	(nc)
Computer, numerical tool, and process control programmers .....	690	0.2	(nc)
Computer programmers .....	690	0.2	9
Drafters .....	60	<	(nc)
Architectural and civil drafters .....	60	<	23
Engineering technicians .....	530	0.2	(nc)
Electrical/electronics engineering technicians .....	290	0.1	27
Electro-mechanical technicians .....	200	0.1	24
Mechanical engineering technicians .....	40	<	8
Physical and life science technicians .....	40	<	(nc)
Chemical technicians, except health .....	40	<	32
Paper and paper products (SIC 5110)			
Scientific and technical personnel.....	3,490	1.4	(nc)
Managers of scientific and technical personnel .....	670	0.3	(nc)
Computer and information systems managers .....	620	0.3	11
Engineering managers .....	50	<	23
Scientists .....	1,350	0.6	(nc)
Computer scientists .....	1,220	0.5	(nc)
Computer software, applications .....	350	0.1	27
Computer software, systems .....	80	<	13
Computer systems analysts .....	190	0.1	16
Network and computer systems administrators .....	410	0.2	13
Network systems/data communications analysts .....	190	0.1	26
Life scientists .....	40	<	(nc)
Foresters .....	40	<	36
Social scientists .....	90	<	(nc)
Market research analysts .....	90	<	26

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Paper and paper products (SIC 5110) -- continued:			
Engineers .....	230	0.1	(nc)
Electrical/electronics .....	40	<	(nc)
Electrical .....	40	<	46
Industrial .....	90	<	24
Mechanical .....	60	<	21
Sales .....	40	<	36
Technicians .....	1,240	0.5	(nc)
Computer, numerical tool, and process control programmers .....	980	0.4	(nc)
Computer programmers .....	980	0.4	18
Engineering technicians .....	260	0.1	(nc)
Electrical/electronics engineering technicians .....	150	0.1	35
Electro-mechanical technicians .....	80	<	40
Mechanical engineering technicians .....	30	<	16
Drugs, proprietaries, and sundries (SIC 5120)			
Scientific and technical personnel.....	9,740	3.5	(nc)
Managers of scientific and technical personnel .....	1,860	0.7	(nc)
Computer and information systems managers .....	1,330	0.5	9
Engineering managers .....	100	<	14
Natural sciences managers .....	430	0.2	33
Scientists .....	5,070	1.8	(nc)
Computer scientists .....	2,280	0.8	(nc)
Computer software, applications .....	510	0.2	30
Computer software, systems .....	200	0.1	24
Computer systems analysts .....	570	0.2	11
Network and computer systems administrators .....	650	0.2	8
Network systems/data communications analysts .....	350	0.1	18
Life scientists .....	1,000	0.4	(nc)
Biochemists and biophysicists .....	200	0.1	46
Medical scientists, except epidemiologists .....	800	0.3	27
Mathematical scientists .....	100	<	(nc)
Statisticians .....	100	<	36
Physical scientists .....	910	0.3	(nc)
Chemists .....	910	0.3	15
Social scientists .....	780	0.3	(nc)
Market research analysts .....	780	0.3	14
Engineers .....	290	0.1	(nc)
Electrical/electronics .....	70	<	(nc)
Electronics .....	70	<	36
Industrial .....	190	0.1	14
Other engineers .....	30	<	(nc)
Safety .....	30	<	39

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Drugs, proprietaries, and sundries (SIC 5120) -- continued:			
Technicians .....	2,520	0.9	(nc)
Computer, numerical tool, and process control programmers .....	1,770	0.6	(nc)
Computer programmers .....	1,770	0.6	9
Engineering technicians .....	260	0.1	(nc)
Electronical/electronics engineering technicians .....	90	<	46
Electro-mechanical technicians .....	170	0.1	33
Physical and life science technicians .....	490	0.2	(nc)
Biological technicians .....	110	<	39
Chemical technicians, except health .....	380	0.1	17
Apparel, piece goods, and notions (SIC 5130)			
Scientific and technical personnel.....	1,850	0.9	(nc)
Managers of scientific and technical personnel .....	360	0.2	(nc)
Computer and information systems managers .....	300	0.2	7
Engineering managers .....	60	<	19
Scientists .....	770	0.4	(nc)
Computer scientists .....	380	0.2	(nc)
Computer systems analysts .....	100	0.1	20
Network and computer systems administrators .....	240	0.1	10
Network systems/data communications analysts .....	40	<	27
Social scientists .....	390	0.2	(nc)
Market research analysts .....	390	0.2	24
Engineers .....	100	0.1	(nc)
Industrial .....	60	<	18
Sales .....	40	<	28
Technicians .....	620	0.3	(nc)
Computer, numerical tool, and process control programmers .....	620	0.3	(nc)
Computer programmers .....	620	0.3	21
Groceries and related products (SIC 5140)			
Scientific and technical personnel.....	5,970	0.7	(nc)
Managers of scientific and technical personnel .....	1,410	0.2	(nc)
Computer and information systems managers .....	1,240	0.1	3
Engineering managers .....	170	<	26
Scientists .....	2,460	0.3	(nc)
Computer scientists .....	1,650	0.2	(nc)
Computer software, applications .....	250	<	15
Computer systems analysts .....	460	0.1	14
Network and computer systems administrators .....	820	0.1	9
Network systems/data communications analysts .....	120	<	14

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Groceries and related products (SIC 5140) -- continued:			
Life scientists .....	260	<	(nc)
Agricultural scientists .....	260	<	27
Mathematical scientists .....	40	<	(nc)
Operations and systems researchers and analysts .....	40	<	19
Physical scientists .....	70	<	(nc)
Chemists .....	70	<	44
Social scientists .....	440	0.1	(nc)
Market research analysts .....	440	0.1	28
Engineers .....	250	<	(nc)
Industrial .....	100	<	21
Mechanical .....	70	<	14
Sales .....	80	<	11
Technicians .....	1,850	0.2	(nc)
Computer, numerical tool, and process control programmers .....	1,300	0.1	(nc)
Computer programmers .....	1,300	0.1	9
Engineering technicians .....	240	<	(nc)
Electrical/electronics engineering technicians .....	100	<	25
Electro-mechanical technicians .....	60	<	29
Industrial engineering technicians .....	80	<	29
Physical and life science technicians .....	310	<	(nc)
Agricultural and food science technicians .....	270	<	32
Biological technicians .....	40	<	46
Farm-product raw materials (SIC 5150)			
Scientific and technical personnel.....	740	0.8	(nc)
Managers of scientific and technical personnel .....	200	0.2	(nc)
Computer and information systems managers .....	160	0.2	10
Engineering managers .....	40	<	25
Scientists .....	360	0.4	(nc)
Computer scientists .....	130	0.1	(nc)
Computer software, applications .....	50	0.1	2
Network and computer systems administrators .....	80	0.1	11
Life scientists .....	230	0.2	(nc)
Agricultural scientists .....	230	0.2	27
Technicians .....	180	0.2	(nc)
Computer, numerical tool, and process control programmers .....	130	0.1	(nc)
Computer programmers .....	130	0.1	9
Physical and life science technicians .....	50	0.1	(nc)
Biological technicians .....	50	0.1	11

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Chemicals and allied products (SIC 5160)			
Scientific and technical personnel.....	5,070	3.3	(nc)
Managers of scientific and technical personnel .....	370	0.2	(nc)
Computer and information systems managers .....	210	0.1	12
Engineering managers .....	160	0.1	13
Scientists .....	1,750	1.1	(nc)
Computer scientists .....	570	0.4	(nc)
Computer software, applications .....	290	0.2	35
Computer systems analysts .....	60	<	14
Network and computer systems administrators .....	190	0.1	9
Network systems/data communications analysts .....	30	<	31
Physical scientists .....	1,040	0.7	(nc)
Chemists .....	1,040	0.7	16
Social scientists .....	140	0.1	(nc)
Market research analysts .....	140	0.1	34
Engineers .....	1,350	0.9	(nc)
Electrical/electronics .....	50	<	(nc)
Electrical .....	50	<	23
Industrial .....	100	0.1	22
Mechanical .....	150	0.1	19
Sales .....	480	0.3	19
Other engineers .....	570	0.4	(nc)
Chemical .....	260	0.2	12
Metallurgical/metallurgists .....	110	0.1	32
Petroleum .....	90	0.1	37
Safety .....	110	0.1	27
Technicians .....	1,600	1.0	(nc)
Computer, numerical tool, and process control programmers .....	230	0.2	(nc)
Computer programmers .....	230	0.2	11
Engineering technicians .....	450	0.3	(nc)
Electrical/electronics engineering technicians .....	140	0.1	21
Electro-mechanical technicians .....	220	0.1	29
Industrial engineering technicians .....	90	0.1	35
Physical and life science technicians .....	920	0.6	(nc)
Chemical technicians, except health .....	920	0.6	11
Petroleum and petroleum products (SIC 5170)			
Scientific and technical personnel.....	1,550	1.1	(nc)
Managers of scientific and technical personnel .....	250	0.2	(nc)
Computer and information systems managers .....	200	0.1	13
Engineering managers .....	50	<	25

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Petroleum and petroleum products (SIC 5170) -- continued:			
Scientists .....	430	0.3	(nc)
Computer scientists .....	270	0.2	(nc)
Computer software, applications .....	50	<	44
Computer systems analysts .....	60	<	17
Network and computer systems administrators .....	160	0.1	16
Physical scientists .....	100	0.1	(nc)
Chemists .....	100	0.1	21
Social scientists .....	60	<	(nc)
Market research analysts .....	60	<	30
Engineers .....	420	0.3	(nc)
Mechanical .....	70	0.1	19
Sales .....	250	0.2	21
Other engineers .....	100	0.1	(nc)
Chemical .....	40	<	30
Petroleum .....	60	<	20
Technicians .....	450	0.3	(nc)
Computer, numerical tool, and process control programmers .....	170	0.1	(nc)
Computer programmers .....	170	0.1	15
Engineering technicians .....	130	0.1	(nc)
Electrical/electronics engineering technicians .....	90	0.1	24
Electro-mechanical technicians .....	40	<	23
Physical and life science technicians .....	150	0.1	(nc)
Chemical technicians, except health .....	60	<	38
Geological and petroleum technicians .....	90	0.1	30
Beer, wine, and distilled beverages (SIC 5180)			
Scientific and technical personnel.....	790	0.5	(nc)
Managers of scientific and technical personnel .....	310	0.2	(nc)
Computer and information systems managers .....	310	0.2	5
Scientists .....	320	0.2	(nc)
Computer scientists .....	190	0.1	(nc)
Computer systems analysts .....	30	<	26
Network and computer systems administrators .....	160	0.1	6
Social scientists .....	130	0.1	(nc)
Market research analysts .....	130	0.1	20
Technicians .....	160	0.1	(nc)
Computer, numerical tool, and process control programmers .....	160	0.1	(nc)
Computer programmers .....	160	0.1	7

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Misc. nondurable goods (SIC 5190)			
Scientific and technical personnel.....	8,100	1.6	(nc)
Managers of scientific and technical personnel .....	1,310	0.3	(nc)
Computer and information systems managers .....	1,100	0.2	8
Engineering managers .....	110	<	18
Natural sciences managers .....	100	<	36
Scientists .....	3,410	0.7	(nc)
Computer scientists .....	1,650	0.3	(nc)
Computer software, applications .....	520	0.1	37
Computer systems analysts .....	280	0.1	16
Network and computer systems administrators .....	640	0.1	8
Network systems/data communications analysts .....	210	<	22
Life scientists .....	1,200	0.2	(nc)
Agricultural scientists .....	1,200	0.2	12
Mathematical scientists .....	70	<	(nc)
Operations and systems researchers and analysts .....	70	<	32
Physical scientists .....	80	<	(nc)
Chemists .....	40	<	24
Environmental scientists and specialists, including health .....	40	<	40
Social scientists .....	410	0.1	(nc)
Market research analysts .....	410	0.1	18
Engineers .....	140	<	(nc)
Computer .....	70	<	39
Industrial .....	70	<	40
Technicians .....	3,240	0.6	(nc)
Computer, numerical tool, and process control programmers .....	1,570	0.3	(nc)
Computer programmers .....	1,570	0.3	13
Engineering technicians .....	160	<	(nc)
Electrical/electronics engineering technicians .....	160	<	35
Physical and life science technicians .....	1,430	0.3	(nc)
Agricultural and food science technicians .....	1,210	0.2	14
Biological technicians .....	190	<	47
Chemical technicians, except health .....	30	<	30
Surveying, cartographic, photogrammetric, and mapping technicians .....	80	<	(nc)
Cartographers and photogrammetrists .....	80	<	48
Lumber and other building materials (SIC 5210)			
Scientific and technical personnel.....	4,610	0.7	(nc)
Managers of scientific and technical personnel .....	590	0.1	(nc)
Computer and information systems managers .....	500	0.1	15
Engineering managers .....	90	<	17

See explanatory information and SOURCE at end of table.



Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Lumber and other building materials (SIC 5210) -- continued:			
Scientists .....	2,780	0.4	(nc)
Computer scientists .....	2,730	0.4	(nc)
Computer software, systems .....	1,720	0.3	38
Network and computer systems administrators .....	820	0.1	30
Network systems/data communications analysts .....	190	<	31
Social scientists .....	50	<	(nc)
Market research analysts .....	50	<	27
Engineers .....	360	0.1	(nc)
Industrial .....	70	<	29
Sales .....	290	<	31
Technicians .....	880	0.1	(nc)
Computer, numerical tool, and process control programmers .....	160	<	(nc)
Computer programmers .....	160	<	14
Drafters .....	720	0.1	(nc)
Architectural and civil drafters .....	720	0.1	10
Hardware stores (SIC 5250)			
Scientific and technical personnel.....	110	0.1	(nc)
Managers of scientific and technical personnel .....	40	<	(nc)
Computer and information systems managers .....	40	<	8
Scientists .....	40	<	(nc)
Computer scientists .....	40	<	(nc)
Network and computer systems administrators .....	40	<	11
Technicians .....	30	<	(nc)
Computer, numerical tool, and process control programmers .....	30	<	(nc)
Computer programmers .....	30	<	23
Retail nurseries and garden stores (SIC 5260)			
Scientific and technical personnel.....	30	<	(nc)
Technicians .....	30	<	(nc)
Drafters .....	30	<	(nc)
Architectural and civil drafters .....	30	<	16
Department stores (SIC 5310)			
Scientific and technical personnel.....	6,180	0.2	(nc)
Managers of scientific and technical personnel .....	1,280	0.1	(nc)
Computer and information systems managers .....	1,160	0.1	18
Engineering managers .....	120	<	16

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Department stores (SIC 5310) -- continued:			
Scientists .....	2,790	0.1	(nc)
Computer scientists .....	2,380	0.1	(nc)
Computer software, systems .....	200	<	23
Computer systems analysts .....	1,680	0.1	27
Network and computer systems administrators .....	370	<	10
Network systems/data communications analysts .....	130	<	13
Mathematical scientists .....	80	<	(nc)
Operations and systems researchers and analysts .....	80	<	50
Social scientists .....	330	<	(nc)
Market research analysts .....	330	<	17
Engineers .....	290	<	(nc)
Civil .....	50	<	33
Industrial .....	240	<	26
Technicians .....	1,820	0.1	(nc)
Computer, numerical tool, and process control programmers .....	1,480	0.1	(nc)
Computer programmers .....	1,480	0.1	18
Drafters .....	60	<	(nc)
Architectural and civil drafters .....	60	<	20
Engineering technicians .....	280	<	(nc)
Electrical/electronics engineering technicians .....	50	<	24
Mechanical engineering technicians .....	160	<	39
All other engineering technicians .....	70	<	(nc)
Audio and video equipment technicians .....	70	<	44
Grocery stores (SIC 5410)			
Scientific and technical personnel.....	3,890	0.1	(nc)
Managers of scientific and technical personnel .....	1,300	<	(nc)
Computer and information systems managers .....	1,160	<	17
Engineering managers .....	140	<	17
Scientists .....	1,630	0.1	(nc)
Computer scientists .....	1,470	0.1	(nc)
Computer software, applications .....	200	<	26
Computer software, systems .....	80	<	45
Computer systems analysts .....	790	<	20
Network and computer systems administrators .....	400	<	13
Social scientists .....	160	<	(nc)
Market research analysts .....	160	<	18
Engineers .....	60	<	(nc)
Industrial .....	60	<	15

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Grocery stores (SIC 5410) -- continued:			
Technicians .....	900	<	(nc)
Computer, numerical tool, and process control programmers .....	830	<	(nc)
Computer programmers .....	830	<	12
Drafters .....	70	<	(nc)
Architectural and civil drafters .....	70	<	18
Miscellaneous food stores (SIC 5490)			
Scientific and technical personnel.....	170	0.2	(nc)
Managers of scientific and technical personnel .....	40	0.1	(nc)
Computer and information systems managers .....	40	0.1	14
Scientists .....	30	<	(nc)
Computer scientists .....	30	<	(nc)
Network and computer systems administrators .....	30	<	14
Technicians .....	100	0.1	(nc)
Computer, numerical tool, and process control programmers .....	100	0.1	(nc)
Computer programmers .....	100	0.1	20
New and used car dealers (SIC 5510)			
Scientific and technical personnel.....	2,230	0.2	(nc)
Managers of scientific and technical personnel .....	560	0.1	(nc)
Computer and information systems managers .....	560	0.1	7
Scientists .....	430	<	(nc)
Computer scientists .....	370	<	(nc)
Network and computer systems administrators .....	370	<	10
Social scientists .....	60	<	(nc)
Market research analysts .....	60	<	37
Engineers .....	1,020	0.1	(nc)
Sales .....	1,020	0.1	28
Technicians .....	220	<	(nc)
Computer, numerical tool, and process control programmers .....	150	<	(nc)
Computer programmers .....	150	<	16
Engineering technicians .....	70	<	(nc)
All other engineering technicians .....	70	<	(nc)
Transportation inspectors .....	70	<	29

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Auto and home supply stores (SIC 5530)			
Scientific and technical personnel.....	530	0.1	(nc)
Managers of scientific and technical personnel .....	140	<	(nc)
Computer and information systems managers .....	140	<	13
Scientists .....	160	<	(nc)
Computer scientists .....	160	<	(nc)
Network and computer systems administrators .....	110	<	7
Network systems/data communications analysts .....	50	<	34
Technicians .....	230	0.1	(nc)
Computer, numerical tool, and process control programmers .....	230	0.1	(nc)
Computer programmers .....	230	0.1	16
Gasoline service stations (SIC 5540)			
Scientific and technical personnel.....	360	0.1	(nc)
Managers of scientific and technical personnel .....	140	<	(nc)
Computer and information systems managers .....	140	<	14
Scientists .....	110	<	(nc)
Computer scientists .....	60	<	(nc)
Network and computer systems administrators .....	60	<	19
Social scientists .....	50	<	(nc)
Market research analysts .....	50	<	33
Technicians .....	110	<	(nc)
Computer, numerical tool, and process control programmers .....	110	<	(nc)
Computer programmers .....	110	<	15
Boat dealers (SIC 5550)			
Scientific and technical personnel.....	30	0.1	(nc)
Managers of scientific and technical personnel .....	30	0.1	(nc)
Computer and information systems managers .....	30	0.1	17
Men's and boys' clothing stores (SIC 5610)			
Scientific and technical personnel.....	80	0.1	(nc)
Technicians .....	80	0.1	(nc)
Computer, numerical tool, and process control programmers .....	80	0.1	(nc)
Computer programmers .....	80	0.1	34

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
<b>Women's clothing stores (SIC 5620)</b>			
Scientific and technical personnel.....	280	0.1	(nc)
Managers of scientific and technical personnel .....	90	<	(nc)
Computer and information systems managers .....	90	<	21
Scientists .....	120	<	(nc)
Computer scientists .....	60	<	(nc)
Network and computer systems administrators .....	60	<	18
Social scientists .....	60	<	(nc)
Market research analysts .....	60	<	14
Technicians .....	70	<	(nc)
Computer, numerical tool, and process control programmers .....	70	<	(nc)
Computer programmers .....	70	<	34
<b>Children's and infants' wear stores (SIC 5640)</b>			
Scientific and technical personnel.....	50	0.1	(nc)
Scientists .....	50	0.1	(nc)
Computer scientists .....	50	0.1	(nc)
Computer software, applications .....	50	0.1	35
<b>Family clothing stores (SIC 5650)</b>			
Scientific and technical personnel.....	670	0.2	(nc)
Managers of scientific and technical personnel .....	200	0.1	(nc)
Computer and information systems managers .....	160	<	12
Engineering managers .....	40	<	27
Scientists .....	190	<	(nc)
Computer scientists .....	140	<	(nc)
Network and computer systems administrators .....	140	<	14
Social scientists .....	50	<	(nc)
Market research analysts .....	50	<	27
Technicians .....	280	0.1	(nc)
Computer, numerical tool, and process control programmers .....	280	0.1	(nc)
Computer programmers .....	280	0.1	16
<b>Shoe stores (SIC 5660)</b>			
Scientific and technical personnel.....	590	0.3	(nc)
Managers of scientific and technical personnel .....	150	0.1	(nc)
Computer and information systems managers .....	150	0.1	14

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Shoe stores (SIC 5660) -- continued:			
Scientists .....	50	<	(nc)
Computer scientists .....	50	<	(nc)
Network and computer systems administrators .....	50	<	22
Technicians .....	390	0.2	(nc)
Computer, numerical tool, and process control programmers .....	310	0.2	(nc)
Computer programmers .....	310	0.2	13
Drafters .....	80	<	(nc)
Architectural and civil drafters .....	80	<	17
Misc. apparel and accessory stores (SIC 5690)			
Scientific and technical personnel.....	50	0.1	(nc)
Managers of scientific and technical personnel .....	50	0.1	(nc)
Computer and information systems managers .....	50	0.1	4
Furniture and homefurnishings stores (SIC 5710)			
Scientific and technical personnel.....	980	0.2	(nc)
Managers of scientific and technical personnel .....	300	0.1	(nc)
Computer and information systems managers .....	300	0.1	7
Scientists .....	220	<	(nc)
Computer scientists .....	220	<	(nc)
Computer systems analysts .....	40	<	25
Network and computer systems administrators .....	180	<	21
Technicians .....	460	0.1	(nc)
Computer, numerical tool, and process control programmers .....	200	<	(nc)
Computer programmers .....	200	<	14
Drafters .....	260	0.1	(nc)
Architectural and civil drafters .....	260	0.1	46
Radio, television, and computer stores (SIC 5730)			
Scientific and technical personnel.....	15,020	3.2	(nc)
Managers of scientific and technical personnel .....	1,360	0.3	(nc)
Computer and information systems managers .....	1,140	0.2	9
Engineering managers .....	220	0.1	16

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Radio, television, and computer stores (SIC 5730) -- continued:			
Scientists .....	8,210	1.7	(nc)
Computer scientists .....	7,940	1.7	(nc)
Computer software, applications .....	1,210	0.3	17
Computer software, systems .....	2,970	0.6	15
Computer systems analysts .....	1,150	0.2	30
Network and computer systems administrators .....	1,990	0.4	10
Network systems/data communications analysts .....	620	0.1	30
Social scientists .....	270	0.1	(nc)
Market research analysts .....	270	0.1	32
Engineers .....	860	0.2	(nc)
Electrical/electronics .....	240	0.1	(nc)
Electrical .....	120	<	19
Electronics .....	120	<	27
Mechanical .....	60	<	34
Sales .....	560	0.1	21
Technicians .....	4,590	1.0	(nc)
Computer, numerical tool, and process control programmers .....	4,250	0.9	(nc)
Computer programmers .....	4,250	0.9	12
Engineering technicians .....	340	0.1	(nc)
Electrical/electronics engineering technicians .....	210	<	15
All other engineering technicians .....	130	<	(nc)
Audio and video equipment technicians .....	130	<	36
Eating and drinking places (SIC 5810)			
Scientific and technical personnel.....	1,040	<	(nc)
Managers of scientific and technical personnel .....	200	<	(nc)
Computer and information systems managers .....	140	<	48
Engineering managers .....	60	<	26
Scientists .....	730	<	(nc)
Computer scientists .....	690	<	(nc)
Computer systems analysts .....	150	<	42
Network and computer systems administrators .....	540	<	29
Social scientists .....	40	<	(nc)
Market research analysts .....	40	<	21
Technicians .....	110	<	(nc)
Computer, numerical tool, and process control programmers .....	110	<	(nc)
Computer programmers .....	110	<	39

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Drug stores and proprietary stores (SIC 5910)			
Scientific and technical personnel.....	550	0.1	(nc)
Managers of scientific and technical personnel .....	160	<	(nc)
Computer and information systems managers .....	160	<	12
Scientists .....	220	<	(nc)
Computer scientists .....	160	<	(nc)
Network and computer systems administrators .....	160	<	16
Social scientists .....	60	<	(nc)
Market research analysts .....	60	<	24
Technicians .....	170	<	(nc)
Computer, numerical tool, and process control programmers .....	170	<	(nc)
Computer programmers .....	170	<	23
Miscellaneous shopping goods stores (SIC 5940)			
Scientific and technical personnel.....	4,530	0.4	(nc)
Managers of scientific and technical personnel .....	810	0.1	(nc)
Computer and information systems managers .....	770	0.1	12
Engineering managers .....	40	<	16
Scientists .....	2,680	0.2	(nc)
Computer scientists .....	2,080	0.2	(nc)
Computer software, applications .....	520	0.1	32
Computer software, systems .....	180	<	46
Computer systems analysts .....	380	<	14
Network and computer systems administrators .....	490	<	10
Network systems/data communications analysts .....	510	0.1	16
Mathematical scientists .....	40	<	(nc)
Operations and systems researchers and analysts .....	40	<	15
Social scientists .....	560	0.1	(nc)
Market research analysts .....	560	0.1	27
Engineers .....	40	<	(nc)
Industrial .....	40	<	28
Technicians .....	1,000	0.1	(nc)
Computer, numerical tool, and process control programmers .....	1,000	0.1	(nc)
Computer programmers .....	1,000	0.1	18

See explanatory information and SOURCE at end of table.



Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Nonstore retailers (SIC 5960)			
Scientific and technical personnel.....	10,730	2.8	(nc)
Managers of scientific and technical personnel .....	1,330	0.4	(nc)
Computer and information systems managers .....	1,210	0.3	7
Engineering managers .....	120	<	13
Scientists .....	5,860	1.6	(nc)
Computer scientists .....	4,760	1.3	(nc)
Computer software, applications .....	1,100	0.3	22
Computer software, systems .....	890	0.2	29
Computer systems analysts .....	950	0.3	11
Network and computer systems administrators .....	1,070	0.3	7
Network systems/data communications analysts .....	750	0.2	10
Mathematical scientists .....	130	<	(nc)
Operations and systems researchers and analysts .....	70	<	21
Statisticians .....	60	<	44
Social scientists .....	970	0.3	(nc)
Market research analysts .....	970	0.3	10
Engineers .....	200	0.1	(nc)
Industrial .....	150	<	16
Mechanical .....	50	<	7
Technicians .....	3,340	0.9	(nc)
Computer, numerical tool, and process control programmers .....	3,120	0.8	(nc)
Computer programmers .....	3,120	0.8	13
Drafters .....	40	<	(nc)
Architectural and civil drafters .....	40	<	31
Engineering technicians .....	180	0.1	(nc)
Electrical/electronics engineering technicians .....	80	<	29
Industrial engineering technicians .....	70	<	28
All other engineering technicians .....	30	<	(nc)
Audio and video equipment technicians .....	30	<	37
Fuel dealers (SIC 5980)			
Scientific and technical personnel.....	90	0.1	(nc)
Managers of scientific and technical personnel .....	50	0.1	(nc)
Computer and information systems managers .....	50	0.1	10
Technicians .....	40	<	(nc)
Computer, numerical tool, and process control programmers .....	40	<	(nc)
Computer programmers .....	40	<	27

See explanatory information and SOURCE at end of table.

Table 8. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 40-59 (selected trade and regulated industries),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Retail stores, n.e.c. (SIC 5990)			
Scientific and technical personnel.....	980	0.2	(nc)
Managers of scientific and technical personnel .....	200	<	(nc)
Computer and information systems managers .....	200	<	12
Scientists .....	360	0.1	(nc)
Computer scientists .....	360	0.1	(nc)
Computer software, applications .....	70	<	35
Computer systems analysts .....	50	<	32
Network and computer systems administrators .....	210	<	15
Network systems/data communications analysts .....	30	<	24
Engineers .....	70	<	(nc)
Electrical/electronics .....	70	<	(nc)
Electronics .....	70	<	43
Technicians .....	350	0.1	(nc)
Computer, numerical tool, and process control programmers .....	220	<	(nc)
Computer programmers .....	220	<	17
Engineering technicians .....	130	<	(nc)
Electrical/electronics engineering technicians .....	130	<	36

<sup>1</sup> SET intensity = the ratio of SET employment (including SET managers) in a given SIC to total employment in that SIC, expressed in percentage terms.

<sup>2</sup> Relative standard error of the estimate of filled positions, expressed as a percentage.

KEY:       nc       = Not computed  
          <       = The estimated actual value is less than 0.05 for percentages when used  
                  to characterize SET intensity.  
          n.e.c.   = Not elsewhere classified.  
          SIC     = Standard Industrial Classification. See Technical Notes for explanation.

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

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

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Central reserve depositories (SIC 6010)			
Scientific and technical personnel.....	3,230	12.6	(nc)
Managers of scientific and technical personnel .....	190	0.7	(nc)
Computer and information systems managers .....	190	0.7	17
Scientists .....	2,700	10.5	(nc)
Computer scientists .....	1,810	7.1	(nc)
Computer software, applications .....	220	0.9	12
Computer software, systems .....	130	0.5	19
Computer systems analysts .....	840	3.3	21
Network and computer systems administrators .....	380	1.5	16
Network systems/data communications analysts .....	240	0.9	19
Mathematical scientists .....	450	1.8	(nc)
Operations and systems researchers and analysts .....	340	1.3	34
Statisticians .....	110	0.4	18
Social scientists .....	440	1.7	(nc)
Economists .....	220	0.9	20
Market research analysts .....	220	0.9	31
Technicians .....	340	1.3	(nc)
Computer, numerical tool, and process control programmers .....	340	1.3	(nc)
Computer programmers .....	340	1.3	25
Commercial banks (SIC 6020)			
Scientific and technical personnel.....	53,510	3.8	(nc)
Managers of scientific and technical personnel .....	7,430	0.5	(nc)
Computer and information systems managers .....	7,210	0.5	4
Engineering managers .....	220	<	9
Scientists .....	34,590	2.5	(nc)
Computer scientists .....	29,180	2.1	(nc)
Computer and information scientists, research .....	400	<	42
Computer software, applications .....	2,930	0.2	11
Computer software, systems .....	6,740	0.5	14
Computer systems analysts .....	10,520	0.7	6
Network and computer systems administrators .....	5,120	0.4	7
Network systems/data communications analysts .....	3,470	0.3	5
Mathematical scientists .....	2,710	0.2	(nc)
Operations and systems researchers and analysts .....	2,580	0.2	11
Statisticians .....	130	<	20
Social scientists .....	2,700	0.2	(nc)
Economists .....	130	<	10
Market research analysts .....	2,510	0.2	8
Urban and regional planners .....	60	<	39

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Commercial banks (SIC 6020) -- continued:			
Engineers .....	770	0.1	(nc)
Computer .....	310	<	42
Electrical/electronics .....	160	<	(nc)
Electronics .....	160	<	20
Sales .....	300	<	30
Technicians .....	10,720	0.8	(nc)
Computer, numerical tool, and process control programmers .....	10,720	0.8	(nc)
Computer programmers .....	10,720	0.8	9
Savings institutions (SIC 6030)			
Scientific and technical personnel.....	5,440	2.1	(nc)
Managers of scientific and technical personnel .....	1,280	0.5	(nc)
Computer and information systems managers .....	1,280	0.5	7
Scientists .....	3,380	1.3	(nc)
Computer scientists .....	2,730	1.0	(nc)
Computer software, applications .....	240	0.1	15
Computer software, systems .....	150	0.1	22
Computer systems analysts .....	1,180	0.5	8
Network and computer systems administrators .....	810	0.3	7
Network systems/data communications analysts .....	350	0.1	10
Mathematical scientists .....	80	<	(nc)
Operations and systems researchers and analysts .....	80	<	7
Social scientists .....	570	0.2	(nc)
Market research analysts .....	570	0.2	38
Engineers .....	40	<	(nc)
Electrical/electronics .....	40	<	(nc)
Electronics .....	40	<	46
Technicians .....	740	0.3	(nc)
Computer, numerical tool, and process control programmers .....	740	0.3	(nc)
Computer programmers .....	740	0.3	11
Credit unions (SIC 6060)			
Scientific and technical personnel.....	4,130	2.0	(nc)
Managers of scientific and technical personnel .....	1,370	0.7	(nc)
Computer and information systems managers .....	1,370	0.7	5
Scientists .....	2,460	1.2	(nc)
Computer scientists .....	1,930	1.0	(nc)
Computer software, applications .....	120	0.1	10
Computer software, systems .....	60	<	8
Computer systems analysts .....	610	0.3	12
Network and computer systems administrators .....	820	0.4	4
Network systems/data communications analysts .....	320	0.2	7

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Credit unions (SIC 6060) -- continued:			
Mathematical scientists .....	70	<	(nc)
Operations and systems researchers and analysts .....	70	<	35
Social scientists .....	460	0.2	(nc)
Market research analysts .....	460	0.2	7
Technicians .....			
Computer, numerical tool, and process control programmers .....	300	0.2	(nc)
Computer programmers .....	300	0.2	9
Foreign banks and branches and agencies (SIC 6080)			
Scientific and technical personnel.....	870	3.4	(nc)
Managers of scientific and technical personnel .....			
Computer and information systems managers .....	320	1.2	(nc)
Computer and information systems managers .....	320	1.2	18
Scientists .....			
Computer scientists .....	370	1.4	(nc)
Computer scientists .....	370	1.4	(nc)
Computer software, applications .....	50	0.2	17
Computer software, systems .....	50	0.2	23
Computer systems analysts .....	70	0.3	16
Network and computer systems administrators .....	200	0.8	23
Technicians .....			
Computer, numerical tool, and process control programmers .....	180	0.7	(nc)
Computer, numerical tool, and process control programmers .....	180	0.7	(nc)
Computer programmers .....	180	0.7	32
Functions closely related to banking (SIC 6090)			
Scientific and technical personnel.....	4,830	4.3	(nc)
Managers of scientific and technical personnel .....			
Computer and information systems managers .....	680	0.6	(nc)
Computer and information systems managers .....	680	0.6	14
Scientists .....			
Computer scientists .....	3,670	3.3	(nc)
Computer scientists .....	3,140	2.8	(nc)
Computer software, applications .....	1,200	1.1	25
Computer software, systems .....	290	0.3	13
Computer systems analysts .....	720	0.6	13
Network and computer systems administrators .....	500	0.5	16
Network systems/data communications analysts .....	430	0.4	23
Mathematical scientists .....			
Operations and systems researchers and analysts .....	90	0.1	(nc)
Operations and systems researchers and analysts .....	90	0.1	25
Social scientists .....			
Market research analysts .....	440	0.4	(nc)
Market research analysts .....	440	0.4	20

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Functions closely related to banking (SIC 6090) -- continued:			
Engineers .....	60	0.1	(nc)
Electrical/electronics .....	60	0.1	(nc)
Electronics .....	60	0.1	43
Technicians .....	420	0.4	(nc)
Computer, numerical tool, and process control programmers .....	420	0.4	(nc)
Computer programmers .....	420	0.4	10
Federal and federally sponsored credit (SIC 6110)			
Scientific and technical personnel.....	1,340	6.1	(nc)
Managers of scientific and technical personnel .....	140	0.6	(nc)
Computer and information systems managers .....	140	0.6	21
Scientists .....	960	4.4	(nc)
Computer scientists .....	840	3.8	(nc)
Computer software, applications .....	320	1.5	43
Computer systems analysts .....	300	1.4	30
Network and computer systems administrators .....	160	0.7	19
Network systems/data communications analysts .....	60	0.3	21
Mathematical scientists .....	50	0.2	(nc)
Operations and systems researchers and analysts .....	50	0.2	27
Social scientists .....	70	0.3	(nc)
Market research analysts .....	70	0.3	13
Technicians .....	240	1.1	(nc)
Computer, numerical tool, and process control programmers .....	240	1.1	(nc)
Computer programmers .....	240	1.1	18
Personal credit institutions (SIC 6140)			
Scientific and technical personnel.....	7,980	3.6	(nc)
Managers of scientific and technical personnel .....	1,150	0.5	(nc)
Computer and information systems managers .....	1,150	0.5	16
Scientists .....	5,990	2.7	(nc)
Computer scientists .....	4,800	2.2	(nc)
Computer software, applications .....	1,060	0.5	38
Computer software, systems .....	380	0.2	16
Computer systems analysts .....	1,610	0.7	14
Network and computer systems administrators .....	1,100	0.5	25
Network systems/data communications analysts .....	650	0.3	23
Mathematical scientists .....	260	0.1	(nc)
Operations and systems researchers and analysts .....	60	<	12
Statisticians .....	200	0.1	22
Social scientists .....	930	0.4	(nc)
Market research analysts .....	930	0.4	16

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Personal credit institutions (SIC 6140) -- continued:			
Technicians .....	840	0.4	(nc)
Computer, numerical tool, and process control programmers .....	840	0.4	(nc)
Computer programmers .....	840	0.4	9
Business credit institutions (SIC 6150)			
Scientific and technical personnel.....	7,390	5.0	(nc)
Managers of scientific and technical personnel .....	880	0.6	(nc)
Computer and information systems managers .....	880	0.6	7
Scientists .....	5,170	3.5	(nc)
Computer scientists .....	4,530	3.1	(nc)
Computer software, applications .....	550	0.4	10
Computer software, systems .....	280	0.2	20
Computer systems analysts .....	1,630	1.1	17
Network and computer systems administrators .....	860	0.6	12
Network systems/data communications analysts .....	1,210	0.8	24
Mathematical scientists .....	180	0.1	(nc)
Operations and systems researchers and analysts .....	180	0.1	21
Social scientists .....	460	0.3	(nc)
Market research analysts .....	460	0.3	22
Engineers .....	100	0.1	(nc)
Computer .....	100	0.1	25
Technicians .....	1,240	0.8	(nc)
Computer, numerical tool, and process control programmers .....	1,240	0.8	(nc)
Computer programmers .....	1,240	0.8	13
Mortgage bankers and brokers (SIC 6160)			
Scientific and technical personnel.....	7,170	2.1	(nc)
Managers of scientific and technical personnel .....	1,230	0.4	(nc)
Computer and information systems managers .....	1,230	0.4	6
Scientists .....	4,770	1.4	(nc)
Computer scientists .....	3,890	1.2	(nc)
Computer software, applications .....	610	0.2	12
Computer software, systems .....	510	0.2	18
Computer systems analysts .....	1,450	0.4	12
Network and computer systems administrators .....	860	0.3	9
Network systems/data communications analysts .....	460	0.1	12
Mathematical scientists .....	270	0.1	(nc)
Actuaries .....	30	<	37
Operations and systems researchers and analysts .....	240	0.1	23
Social scientists .....	610	0.2	(nc)
Market research analysts .....	610	0.2	14

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Mortgage bankers and brokers (SIC 6160) -- continued:			
Technicians .....	1,170	0.4	(nc)
Computer, numerical tool, and process control programmers .....	1,170	0.4	(nc)
Computer programmers .....	1,170	0.4	11
Security brokers and dealers (SIC 6210)			
Scientific and technical personnel.....	28,560	5.2	(nc)
Managers of scientific and technical personnel .....	4,200	0.8	(nc)
Computer and information systems managers .....	4,200	0.8	11
Scientists .....	16,540	3.0	(nc)
Computer scientists .....	13,240	2.4	(nc)
Computer software, applications .....	3,340	0.6	15
Computer software, systems .....	1,650	0.3	14
Computer systems analysts .....	4,190	0.8	12
Network and computer systems administrators .....	2,430	0.4	11
Network systems/data communications analysts .....	1,630	0.3	12
Mathematical scientists .....	480	0.1	(nc)
Actuaries .....	30	<	47
Operations and systems researchers and analysts .....	450	0.1	23
Social scientists .....	2,820	0.5	(nc)
Economists .....	200	<	12
Market research analysts .....	2,620	0.5	11
Engineers .....	100	<	(nc)
Electrical/electronics .....	100	<	(nc)
Electronics .....	100	<	26
Technicians .....	7,720	1.4	(nc)
Computer, numerical tool, and process control programmers .....	7,650	1.4	(nc)
Computer programmers .....	7,650	1.4	11
Engineering technicians .....	70	<	(nc)
All other engineering technicians .....	70	<	(nc)
Audio and video equipment technicians .....	70	<	39
Commodity contracts, brokers, and dealers (SIC 6220)			
Scientific and technical personnel.....	590	3.1	(nc)
Managers of scientific and technical personnel .....	380	2.0	(nc)
Computer and information systems managers .....	380	2.0	41
Scientists .....	210	1.1	(nc)
Computer scientists .....	170	0.9	(nc)
Computer systems analysts .....	90	0.5	49
Network and computer systems administrators .....	40	0.2	12
Network systems/data communications analysts .....	40	0.2	25
Social scientists .....	40	0.2	(nc)
Market research analysts .....	40	0.2	25

See explanatory information and SOURCE at end of table.



Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Security and commodity exchanges (SIC 6230)			
Scientific and technical personnel.....	1,340	13.7	(nc)
Scientists .....	750	7.7	(nc)
Computer scientists .....	700	7.2	(nc)
Computer software, applications .....	150	1.5	32
Computer software, systems .....	180	1.9	40
Computer systems analysts .....	160	1.6	26
Network and computer systems administrators .....	90	0.9	39
Network systems/data communications analysts .....	120	1.2	30
Social scientists .....	50	0.5	(nc)
Market research analysts .....	50	0.5	37
Technicians .....	590	6.1	(nc)
Computer, numerical tool, and process control programmers .....	590	6.1	(nc)
Computer programmers .....	590	6.1	40
Security and commodity services (SIC 6280)			
Scientific and technical personnel.....	12,600	6.6	(nc)
Managers of scientific and technical personnel .....	2,070	1.1	(nc)
Computer and information systems managers .....	2,070	1.1	8
Scientists .....	8,450	4.4	(nc)
Computer scientists .....	6,440	3.4	(nc)
Computer software, applications .....	1,690	0.9	12
Computer software, systems .....	690	0.4	15
Computer systems analysts .....	2,010	1.1	7
Network and computer systems administrators .....	1,250	0.7	11
Network systems/data communications analysts .....	800	0.4	14
Mathematical scientists .....	780	0.4	(nc)
Actuaries .....	50	<	18
Operations and systems researchers and analysts .....	600	0.3	17
Statisticians .....	130	0.1	13
Social scientists .....	1,230	0.7	(nc)
Market research analysts .....	1,230	0.7	18
Engineers .....	150	0.1	(nc)
Electrical/electronics .....	150	0.1	(nc)
Electronics .....	150	0.1	23
Technicians .....	1,930	1.0	(nc)
Computer, numerical tool, and process control programmers .....	1,930	1.0	(nc)
Computer programmers .....	1,930	1.0	13

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Life insurance (SIC 6310)			
Scientific and technical personnel.....	38,470	11.2	(nc)
Managers of scientific and technical personnel .....	4,550	1.3	(nc)
Computer and information systems managers .....	4,550	1.3	7
Scientists .....	25,890	7.6	(nc)
Computer scientists .....	18,500	5.4	(nc)
Computer software, applications .....	3,650	1.1	15
Computer software, systems .....	460	0.1	19
Computer systems analysts .....	10,870	3.2	8
Network and computer systems administrators .....	2,260	0.7	7
Network systems/data communications analysts .....	1,260	0.4	15
Mathematical scientists .....	5,330	1.6	(nc)
Actuaries .....	3,870	1.1	6
Mathematicians .....	30	<	22
Operations and systems researchers and analysts .....	1,240	0.4	8
Statisticians .....	190	0.1	18
Social scientists .....	2,060	0.6	(nc)
Market research analysts .....	2,060	0.6	9
Engineers .....	380	0.1	(nc)
Computer .....	80	<	40
Industrial .....	260	0.1	36
Other engineers .....	40	<	(nc)
Safety .....	40	<	18
Technicians .....	7,650	2.2	(nc)
Computer, numerical tool, and process control programmers .....	7,430	2.2	(nc)
Computer programmers .....	7,430	2.2	14
Engineering technicians .....	50	<	(nc)
Industrial engineering technicians .....	50	<	36
Mathematical technicians .....	170	0.1	20
Medical service and health insurance (SIC 6320)			
Scientific and technical personnel.....	35,330	8.9	(nc)
Managers of scientific and technical personnel .....	3,840	1.0	(nc)
Computer and information systems managers .....	3,670	0.9	4
Engineering managers .....	130	<	44
Natural sciences managers .....	40	<	15
Scientists .....	25,030	6.3	(nc)
Computer scientists .....	19,600	5.0	(nc)
Computer software, applications .....	3,460	0.9	9
Computer software, systems .....	1,020	0.3	13
Computer systems analysts .....	10,770	2.7	7
Network and computer systems administrators .....	2,910	0.7	6
Network systems/data communications analysts .....	1,440	0.4	8

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Medical service and health insurance (SIC 6320) -- continued:			
Life scientists .....	40	<	(nc)
Epidemiologists .....	40	<	34
Mathematical scientists .....	3,570	0.9	(nc)
Actuaries .....	1,530	0.4	7
Operations and systems researchers and analysts .....	1,580	0.4	11
Statisticians .....	460	0.1	14
Social scientists .....	1,820	0.5	(nc)
Economists .....	50	<	20
Market research analysts .....	1,770	0.5	7
Engineers .....	40	<	(nc)
Other engineers .....	40	<	(nc)
Safety .....	40	<	18
Technicians .....	6,420	1.6	(nc)
Computer, numerical tool, and process control programmers .....	6,420	1.6	(nc)
Computer programmers .....	6,420	1.6	7
Fire, marine, and casualty insurance (SIC 6330)			
Scientific and technical personnel.....	31,530	5.8	(nc)
Managers of scientific and technical personnel .....	2,680	0.5	(nc)
Computer and information systems managers .....	2,680	0.5	6
Scientists .....	19,110	3.5	(nc)
Computer scientists .....	14,200	2.6	(nc)
Computer software, applications .....	2,240	0.4	21
Computer software, systems .....	670	0.1	14
Computer systems analysts .....	7,510	1.4	13
Network and computer systems administrators .....	2,850	0.5	10
Network systems/data communications analysts .....	930	0.2	18
Mathematical scientists .....	3,120	0.6	(nc)
Actuaries .....	2,230	0.4	14
Operations and systems researchers and analysts .....	550	0.1	12
Statisticians .....	340	0.1	12
Social scientists .....	1,790	0.3	(nc)
Economists .....	120	<	17
Market research analysts .....	1,670	0.3	12
Engineers .....	1,780	0.3	(nc)
Mechanical .....	30	<	27
Other engineers .....	1,750	0.3	(nc)
Safety .....	1,750	0.3	19
Technicians .....	7,960	1.5	(nc)
Computer, numerical tool, and process control programmers .....	7,860	1.5	(nc)
Computer programmers .....	7,860	1.5	13
Mathematical technicians .....	100	<	26

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Surety insurance (SIC 6350)			
Scientific and technical personnel.....	1,610	6.5	(nc)
Managers of scientific and technical personnel .....	200	0.8	(nc)
Computer and information systems managers .....	200	0.8	9
Scientists .....	950	3.8	(nc)
Computer scientists .....	760	3.0	(nc)
Computer software, applications .....	50	0.2	16
Computer systems analysts .....	380	1.5	11
Network and computer systems administrators .....	250	1.0	11
Network systems/data communications analysts .....	80	0.3	25
Mathematical scientists .....	110	0.4	(nc)
Actuaries .....	50	0.2	14
Operations and systems researchers and analysts .....	60	0.2	7
Social scientists .....	80	0.3	(nc)
Market research analysts .....	80	0.3	10
Technicians .....	460	1.9	(nc)
Computer, numerical tool, and process control programmers .....	460	1.9	(nc)
Computer programmers .....	460	1.9	11
Title insurance (SIC 6360)			
Scientific and technical personnel.....	1,320	1.5	(nc)
Managers of scientific and technical personnel .....	320	0.4	(nc)
Computer and information systems managers .....	320	0.4	12
Scientists .....	680	0.8	(nc)
Computer scientists .....	510	0.6	(nc)
Computer systems analysts .....	330	0.4	22
Network and computer systems administrators .....	180	0.2	6
Social scientists .....	170	0.2	(nc)
Market research analysts .....	170	0.2	21
Technicians .....	320	0.4	(nc)
Computer, numerical tool, and process control programmers .....	200	0.2	(nc)
Computer programmers .....	200	0.2	16
Surveying, cartographic, photogrammetric, and mapping technicians .....	120	0.1	(nc)
Surveying and mapping technicians .....	120	0.1	35
Pension, health, and welfare funds (SIC 6370)			
Scientific and technical personnel.....	2,320	3.3	(nc)
Managers of scientific and technical personnel .....	350	0.5	(nc)
Computer and information systems managers .....	350	0.5	10

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Pension, health, and welfare funds (SIC 6370) -- continued:			
Scientists .....	1,230	1.8	(nc)
Computer scientists .....	860	1.2	(nc)
Computer software, applications .....	290	0.4	13
Computer systems analysts .....	290	0.4	13
Network and computer systems administrators .....	280	0.4	10
Mathematical scientists .....	280	0.4	(nc)
Actuaries .....	240	0.3	11
Operations and systems researchers and analysts .....	40	0.1	12
Social scientists .....	90	0.1	(nc)
Market research analysts .....	90	0.1	28
Technicians .....	740	1.1	(nc)
Computer, numerical tool, and process control programmers .....	740	1.1	(nc)
Computer programmers .....	740	1.1	10
Insurance carriers, n.e.c. (SIC 6390)			
Scientific and technical personnel.....	210	2.9	(nc)
Managers of scientific and technical personnel .....	50	0.7	(nc)
Computer and information systems managers .....	50	0.7	16
Scientists .....	70	1.0	(nc)
Computer scientists .....	30	0.4	(nc)
Network and computer systems administrators .....	30	0.4	13
Social scientists .....	40	0.6	(nc)
Market research analysts .....	40	0.6	20
Technicians .....	90	1.2	(nc)
Computer, numerical tool, and process control programmers .....	90	1.2	(nc)
Computer programmers .....	90	1.2	13
Insurance agents, brokers, and service (SIC 6410)			
Scientific and technical personnel.....	19,620	2.5	(nc)
Managers of scientific and technical personnel .....	3,510	0.5	(nc)
Computer and information systems managers .....	3,510	0.5	6
Scientists .....	11,170	1.4	(nc)
Computer scientists .....	8,160	1.0	(nc)
Computer software, applications .....	970	0.1	15
Computer software, systems .....	300	<	22
Computer systems analysts .....	4,060	0.5	21
Network and computer systems administrators .....	2,170	0.3	5
Network systems/data communications analysts .....	660	0.1	13

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Insurance agents, brokers, and service (SIC 6410) -- continued:			
Mathematical scientists .....	1,360	0.2	(nc)
Actuaries .....	860	0.1	13
Operations and systems researchers and analysts .....	290	<	11
Statisticians .....	210	<	20
Social scientists .....	1,650	0.2	(nc)
Market research analysts .....	1,650	0.2	14
Engineers .....	790	0.1	(nc)
Other engineers .....	790	0.1	(nc)
Safety .....	790	0.1	14
Technicians .....	4,150	0.5	(nc)
Computer, numerical tool, and process control programmers .....	4,100	0.5	(nc)
Computer programmers .....	4,100	0.5	6
Mathematical technicians .....	50	<	28
Real estate operators and lessors (SIC 6510)			
Scientific and technical personnel.....	2,140	0.4	(nc)
Managers of scientific and technical personnel .....	360	0.1	(nc)
Computer and information systems managers .....	260	<	8
Engineering managers .....	100	<	16
Scientists .....	770	0.1	(nc)
Computer scientists .....	560	0.1	(nc)
Computer software, applications .....	70	<	31
Computer software, systems .....	40	<	43
Computer systems analysts .....	50	<	31
Network and computer systems administrators .....	280	0.1	12
Network systems/data communications analysts .....	120	<	33
Social scientists .....	210	<	(nc)
Market research analysts .....	210	<	13
Engineers .....	550	0.1	(nc)
Civil .....	370	0.1	37
Mechanical .....	180	<	27
Technicians .....	460	0.1	(nc)
Computer, numerical tool, and process control programmers .....	160	<	(nc)
Computer programmers .....	160	<	11
Drafters .....	70	<	(nc)
Architectural and civil drafters .....	70	<	32
Engineering technicians .....	230	<	(nc)
Electrical/electronics engineering technicians .....	120	<	38
All other engineering technicians .....	110	<	(nc)
Audio and video equipment technicians .....	110	<	34

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Real estate agents and managers (SIC 6530)			
Scientific and technical personnel.....	4,650	0.6	(nc)
Managers of scientific and technical personnel .....	820	0.1	(nc)
Computer and information systems managers .....	820	0.1	9
Scientists .....	1,960	0.3	(nc)
Computer scientists .....	1,280	0.2	(nc)
Computer software, applications .....	60	<	26
Computer software, systems .....	50	<	22
Computer systems analysts .....	190	<	14
Network and computer systems administrators .....	800	0.1	11
Network systems/data communications analysts .....	180	<	23
Social scientists .....	680	0.1	(nc)
Market research analysts .....	680	0.1	22
Engineers .....	780	0.1	(nc)
Civil .....	380	0.1	32
Industrial .....	60	<	39
Mechanical .....	340	<	27
Technicians .....	1,090	0.1	(nc)
Computer, numerical tool, and process control programmers .....	880	0.1	(nc)
Computer programmers .....	880	0.1	13
Drafters .....	80	<	(nc)
Architectural and civil drafters .....	80	<	22
Engineering technicians .....	100	<	(nc)
Electronical/electronics engineering technicians .....	100	<	35
Surveying, cartographic, photogrammetric, and mapping technicians .....	30	<	(nc)
Surveying and mapping technicians .....	30	<	12
Title abstract offices (SIC 6540)			
Scientific and technical personnel.....	360	0.7	(nc)
Managers of scientific and technical personnel .....	120	0.3	(nc)
Computer and information systems managers .....	120	0.3	12
Scientists .....	130	0.3	(nc)
Computer scientists .....	130	0.3	(nc)
Computer systems analysts .....	70	0.1	14
Network and computer systems administrators .....	60	0.1	12
Technicians .....	110	0.2	(nc)
Computer, numerical tool, and process control programmers .....	60	0.1	(nc)
Computer programmers .....	60	0.1	20
Surveying, cartographic, photogrammetric, and mapping technicians .....	50	0.1	(nc)
Surveying and mapping technicians .....	50	0.1	9

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Subdividers and developers (SIC 6550)			
Scientific and technical personnel.....	1,620	1.3	(nc)
Managers of scientific and technical personnel .....	100	0.1	(nc)
Engineering managers .....	100	0.1	18
Scientists .....	290	0.2	(nc)
Computer scientists .....	150	0.1	(nc)
Network and computer systems administrators .....	150	0.1	11
Social scientists .....	140	0.1	(nc)
Market research analysts .....	140	0.1	25
Engineers .....	510	0.4	(nc)
Civil .....	230	0.2	18
Mechanical .....	130	0.1	43
Sales .....	150	0.1	18
Technicians .....	720	0.6	(nc)
Computer, numerical tool, and process control programmers .....	90	0.1	(nc)
Computer programmers .....	90	0.1	17
Drafters .....	140	0.1	(nc)
Architectural and civil drafters .....	140	0.1	13
Engineering technicians .....	70	0.1	(nc)
Civil engineering technicians .....	70	0.1	44
Surveying, cartographic, photogrammetric, and mapping technicians .....	420	0.3	(nc)
Surveying and mapping technicians .....	120	0.1	34
Surveyors .....	300	0.2	39
Holding offices (SIC 6710)			
Scientific and technical personnel.....	9,170	8.8	(nc)
Managers of scientific and technical personnel .....	1,620	1.6	(nc)
Computer and information systems managers .....	1,390	1.3	9
Engineering managers .....	180	0.2	21
Natural sciences managers .....	50	0.1	33
Scientists .....	5,820	5.6	(nc)
Computer scientists .....	4,850	4.7	(nc)
Computer and information scientists, research .....	40	<	24
Computer software, applications .....	1,090	1.1	19
Computer software, systems .....	580	0.6	18
Computer systems analysts .....	1,140	1.1	8
Network and computer systems administrators .....	980	0.9	9
Network systems/data communications analysts .....	1,020	1.0	17

See explanatory information and SOURCE at end of table.



Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Holding offices (SIC 6710) -- continued:			
Mathematical scientists .....	320	0.3	(nc)
Actuaries .....	80	0.1	24
Operations and systems researchers and analysts .....	240	0.2	18
Physical scientists .....	50	0.1	(nc)
Environmental scientists and specialists, including health .....	50	0.1	39
Social scientists .....	600	0.6	(nc)
Market research analysts .....	600	0.6	21
Engineers .....	740	0.7	(nc)
Civil .....	50	0.1	27
Computer .....	160	0.2	26
Electrical/electronics .....	190	0.2	(nc)
Electrical .....	190	0.2	25
Industrial .....	110	0.1	24
Mechanical .....	60	0.1	23
Sales .....	40	<	25
Other engineers .....	130	0.1	(nc)
Metallurgical/metallurgists .....	40	<	50
Safety .....	90	0.1	31
Technicians .....	990	1.0	(nc)
Computer, numerical tool, and process control programmers .....	700	0.7	(nc)
Computer programmers .....	700	0.7	11
Engineering technicians .....	290	0.3	(nc)
Civil engineering technicians .....	30	<	31
Electrical/electronics engineering technicians .....	140	0.1	14
Industrial engineering technicians .....	120	0.1	41
Investment offices (SIC 6720)			
Scientific and technical personnel.....	1,260	4.4	(nc)
Managers of scientific and technical personnel .....	240	0.8	(nc)
Computer and information systems managers .....	240	0.8	18
Scientists .....	900	3.1	(nc)
Computer scientists .....	900	3.1	(nc)
Computer software, systems .....	320	1.1	21
Computer systems analysts .....	220	0.8	11
Network and computer systems administrators .....	360	1.2	12
Technicians .....	120	0.4	(nc)
Computer, numerical tool, and process control programmers .....	120	0.4	(nc)
Computer programmers .....	120	0.4	16

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Trusts (SIC 6730)			
Scientific and technical personnel.....	2,770	4.7	(nc)
Managers of scientific and technical personnel .....	300	0.5	(nc)
Computer and information systems managers .....	300	0.5	8
Scientists .....	1,810	3.1	(nc)
Computer scientists .....	490	0.8	(nc)
Computer software, applications .....	80	0.1	20
Computer systems analysts .....	100	0.2	13
Network and computer systems administrators .....	210	0.4	8
Network systems/data communications analysts .....	100	0.2	12
Life scientists .....	100	0.2	(nc)
Medical scientists, except epidemiologists .....	100	0.2	19
Mathematical scientists .....	900	1.5	(nc)
Operations and systems researchers and analysts .....	440	0.7	40
Statisticians .....	460	0.8	46
Social scientists .....	320	0.6	(nc)
Economists .....	40	0.1	35
Market research analysts .....	110	0.2	13
Survey researchers .....	170	0.3	20
Technicians .....	660	1.1	(nc)
Computer, numerical tool, and process control programmers .....	250	0.4	(nc)
Computer programmers .....	250	0.4	15
Engineering technicians .....	180	0.3	(nc)
All other engineering technicians .....	180	0.3	(nc)
Audio and video equipment technicians .....	130	0.2	35
Broadcast technicians .....	50	0.1	40
Mathematical technicians .....	100	0.2	39
Physical and life science technicians .....	130	0.2	(nc)
Biological technicians .....	130	0.2	9
Misc. investing (SIC 6790)			
Scientific and technical personnel.....	2,620	4.5	(nc)
Managers of scientific and technical personnel .....	470	0.8	(nc)
Computer and information systems managers .....	370	0.6	8
Engineering managers .....	100	0.2	31
Scientists .....	1,460	2.5	(nc)
Computer scientists .....	1,150	2.0	(nc)
Computer software, applications .....	470	0.8	21
Computer software, systems .....	60	0.1	25
Computer systems analysts .....	240	0.4	14
Network and computer systems administrators .....	290	0.5	10
Network systems/data communications analysts .....	90	0.2	16

See explanatory information and SOURCE at end of table.

Table 9. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 60-67 (finance, insurance, and real estate),  
and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Misc. investing (SIC 6790) -- continued:			
Physical scientists .....	70	0.1	(nc)
Geoscientists, except hydrologists and geographers .....	70	0.1	45
Social scientists .....	240	0.4	(nc)
Market research analysts .....	240	0.4	18
Engineers .....	40	0.1	(nc)
Sales .....	40	0.1	40
Technicians .....	650	1.1	(nc)
Computer, numerical tool, and process control programmers .....	650	1.1	(nc)
Computer programmers .....	650	1.1	13

<sup>1</sup>SET intensity = the ratio of SET employment (including SET managers) in a given SIC to total employment in that SIC, expressed in percentage terms.

<sup>2</sup>Relative standard error of the estimate of filled positions, expressed as a percentage.

KEY:       nc       = Not computed  
          <       = The estimated actual value is less than 0.05 for percentages when used  
                  to characterize SET intensity.  
          n.e.c.   = Not elsewhere classified.  
          SIC     = Standard Industrial Classification. See Technical Notes for explanation.

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

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

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Hotels and motels (SIC 7010)			
Scientific and technical personnel.....	2,780	0.2	(nc)
Managers of scientific and technical personnel .....	420	<	(nc)
Computer and information systems managers .....	270	<	14
Engineering managers .....	150	<	15
Scientists .....	870	0.1	(nc)
Computer scientists .....	870	0.1	(nc)
Network and computer systems administrators .....	740	<	7
Network systems/data communications analysts .....	130	<	31
Engineers .....	350	<	(nc)
Civil .....	170	<	28
Electrical/electronics .....	40	<	(nc)
Electrical .....	40	<	28
Mechanical .....	60	<	24
Sales .....	80	<	11
Technicians .....	1,140	0.1	(nc)
Computer, numerical tool, and process control programmers .....	160	<	(nc)
Computer programmers .....	160	<	17
Engineering technicians .....	980	0.1	(nc)
Electronical/electronics engineering technicians .....	90	<	16
Electro-mechanical technicians .....	50	<	17
All other engineering technicians .....	840	0.1	(nc)
Audio and video equipment technicians .....	840	0.1	9
Laundry, cleaning, and garment services (SIC 7210)			
Scientific and technical personnel.....	260	0.1	(nc)
Scientists .....	30	<	(nc)
Social scientists .....	30	<	(nc)
Market research analysts .....	30	<	40
Engineers .....	70	<	(nc)
Industrial .....	70	<	39
Technicians .....	160	<	(nc)
Computer, numerical tool, and process control programmers .....	160	<	(nc)
Computer programmers .....	160	<	27
Photographic studios, portrait (SIC 7220)			
Scientific and technical personnel.....	80	0.1	(nc)
Technicians .....	80	0.1	(nc)
Computer, numerical tool, and process control programmers .....	80	0.1	(nc)
Computer programmers .....	80	0.1	27

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Funeral service and crematories (SIC 7260)			
Scientific and technical personnel.....	140	0.1	(nc)
Managers of scientific and technical personnel .....	30	<	(nc)
Computer and information systems managers .....	30	<	33
Technicians .....	110	0.1	(nc)
Computer, numerical tool, and process control programmers .....	110	0.1	(nc)
Computer programmers .....	110	0.1	26
Misc. personal services (SIC 7290)			
Scientific and technical personnel.....	540	0.2	(nc)
Managers of scientific and technical personnel .....	30	<	(nc)
Computer and information systems managers .....	30	<	16
Scientists .....	160	0.1	(nc)
Computer scientists .....	100	<	(nc)
Network and computer systems administrators .....	30	<	29
Network systems/data communications analysts .....	70	<	23
Social scientists .....	60	<	(nc)
Market research analysts .....	60	<	23
Engineers .....	30	<	(nc)
Electrical/electronics .....	30	<	(nc)
Electronics .....	30	<	47
Technicians .....	320	0.2	(nc)
Computer, numerical tool, and process control programmers .....	320	0.2	(nc)
Computer programmers .....	320	0.2	18
Advertising (SIC 7310)			
Scientific and technical personnel.....	11,800	4.2	(nc)
Managers of scientific and technical personnel .....	1,290	0.5	(nc)
Computer and information systems managers .....	1,170	0.4	11
Engineering managers .....	120	<	35
Scientists .....	7,620	2.7	(nc)
Computer scientists .....	5,320	1.9	(nc)
Computer software, applications .....	1,020	0.4	15
Computer software, systems .....	920	0.3	23
Computer systems analysts .....	1,060	0.4	15
Network and computer systems administrators .....	1,140	0.4	7
Network systems/data communications analysts .....	1,180	0.4	18
Mathematical scientists .....	110	<	(nc)
Operations and systems researchers and analysts .....	110	<	22
Social scientists .....	2,190	0.8	(nc)
Market research analysts .....	2,190	0.8	9

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Advertising (SIC 7310) -- continued:			
Engineers .....	140	0.1	(nc)
Computer .....	50	<	32
Electrical/electronics .....	90	<	(nc)
Electronics .....	90	<	32
Technicians .....	2,750	1.0	(nc)
Computer, numerical tool, and process control programmers .....	2,300	0.8	(nc)
Computer programmers .....	2,300	0.8	9
Engineering technicians .....	450	0.2	(nc)
Electronical/electronics engineering technicians .....	60	<	34
All other engineering technicians .....	390	0.1	(nc)
Audio and video equipment technicians .....	150	0.1	14
Broadcast technicians .....	240	0.1	17
Credit reporting and collection (SIC 7320)			
Scientific and technical personnel.....	3,680	2.2	(nc)
Managers of scientific and technical personnel .....	660	0.4	(nc)
Computer and information systems managers .....	660	0.4	6
Scientists .....	1,630	1.0	(nc)
Computer scientists .....	1,490	0.9	(nc)
Computer software, applications .....	100	0.1	19
Computer systems analysts .....	720	0.4	8
Network and computer systems administrators .....	520	0.3	8
Network systems/data communications analysts .....	150	0.1	9
Social scientists .....	140	0.1	(nc)
Market research analysts .....	140	0.1	8
Technicians .....	1,390	0.8	(nc)
Computer, numerical tool, and process control programmers .....	1,390	0.8	(nc)
Computer programmers .....	1,390	0.8	6
Mailing, reproduction, and stenographic (SIC 7330)			
Scientific and technical personnel.....	8,890	2.8	(nc)
Managers of scientific and technical personnel .....	910	0.3	(nc)
Computer and information systems managers .....	910	0.3	5
Scientists .....	5,050	1.6	(nc)
Computer scientists .....	4,420	1.4	(nc)
Computer software, applications .....	1,310	0.4	23
Computer software, systems .....	240	0.1	45
Computer systems analysts .....	950	0.3	20
Network and computer systems administrators .....	1,310	0.4	11
Network systems/data communications analysts .....	610	0.2	13

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Mailing, reproduction, and stenographic (SIC 7330) -- continued:			
Mathematical scientists .....	140	<	(nc)
Operations and systems researchers and analysts .....	140	<	26
Social scientists .....	490	0.2	(nc)
Market research analysts .....	490	0.2	15
Engineers .....	140	<	(nc)
Sales .....	140	<	41
Technicians .....	2,790	0.9	(nc)
Computer, numerical tool, and process control programmers .....	2,590	0.8	(nc)
Computer programmers .....	2,590	0.8	7
Drafters .....	110	<	(nc)
Mechanical drafters .....	110	<	30
Surveying, cartographic, photogrammetric, and mapping technicians .....	90	<	(nc)
Cartographers and photogrammetrists .....	90	<	12
Services to buildings (SIC 7340)			
Scientific and technical personnel.....	410	<	(nc)
Managers of scientific and technical personnel .....	120	<	(nc)
Computer and information systems managers .....	120	<	23
Engineers .....	230	<	(nc)
Mechanical .....	230	<	31
Technicians .....	60	<	(nc)
Engineering technicians .....	60	<	(nc)
Electrical/electronics engineering technicians .....	60	<	28
Misc. equipment rental and leasing (SIC 7350)			
Scientific and technical personnel.....	3,840	1.3	(nc)
Managers of scientific and technical personnel .....	320	0.1	(nc)
Computer and information systems managers .....	320	0.1	12
Scientists .....	620	0.2	(nc)
Computer scientists .....	540	0.2	(nc)
Computer software, applications .....	40	<	38
Computer software, systems .....	260	0.1	32
Computer systems analysts .....	30	<	35
Network and computer systems administrators .....	210	0.1	19
Social scientists .....	80	<	(nc)
Market research analysts .....	80	<	21

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Misc. equipment rental and leasing (SIC 7350) -- continued:			
Engineers .....	520	0.2	(nc)
Civil .....	40	<	21
Mechanical .....	480	0.2	17
Technicians .....	2,380	0.8	(nc)
Computer, numerical tool, and process control programmers .....	160	0.1	(nc)
Computer programmers .....	160	0.1	14
Engineering technicians .....	2,220	0.8	(nc)
Electrical/electronics engineering technicians .....	180	0.1	23
Mechanical engineering technicians .....	50	<	49
All other engineering technicians .....	1,990	0.7	(nc)
Audio and video equipment technicians .....	1,990	0.7	17
Personnel supply services (SIC 7360)			
Scientific and technical personnel .....	78,520	2.3	(nc)
Managers of scientific and technical personnel .....	2,280	0.1	(nc)
Computer and information systems managers .....	2,100	0.1	11
Engineering managers .....	180	<	18
Scientists .....	22,350	0.6	(nc)
Computer scientists .....	18,320	0.5	(nc)
Computer software, applications .....	3,160	0.1	12
Computer software, systems .....	3,090	0.1	23
Computer systems analysts .....	6,720	0.2	8
Network and computer systems administrators .....	3,560	0.1	8
Network systems/data communications analysts .....	1,790	0.1	16
Life scientists .....	520	<	(nc)
Biochemists and biophysicists .....	290	<	44
Medical scientists, except epidemiologists .....	80	<	39
Microbiologists .....	150	<	38
Mathematical scientists .....	100	<	(nc)
Operations and systems researchers and analysts .....	100	<	20
Physical scientists .....	1,240	<	(nc)
Chemists .....	990	<	15
Environmental scientists and specialists, including health .....	60	<	35
Geoscientists, except hydrologists and geographers .....	190	<	35
Social scientists .....	2,170	0.1	(nc)
Clinical, counseling, and school psychologists .....	330	<	24
Market research analysts .....	790	<	23
Survey researchers .....	1,050	<	47

See explanatory information and SOURCE at end of table.



Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Personnel supply services (SIC 7360) -- continued:			
Engineers .....	21,230	0.6	(nc)
Aeronautical .....	1,450	<	32
Civil .....	1,250	<	22
Computer .....	890	<	17
Electrical/electronics .....	4,590	0.1	(nc)
Electrical .....	3,640	0.1	19
Electronics .....	950	<	17
Industrial .....	2,600	0.1	20
Mechanical .....	10,090	0.3	43
Sales .....	140	<	35
Other engineers .....	220	<	(nc)
Biomedical .....	50	<	41
Chemical .....	50	<	25
Environmental .....	80	<	28
Safety .....	40	<	26
Technicians .....	32,660	1.0	(nc)
Computer, numerical tool, and process control programmers .....	15,110	0.4	(nc)
Computer programmers .....	14,810	0.4	13
Numerical tool and process control programmers .....	300	<	43
Drafters .....	4,900	0.1	(nc)
Architectural and civil drafters .....	1,100	<	27
Electrical and electronics drafters .....	2,000	0.1	14
Mechanical drafters .....	1,800	0.1	15
Engineering technicians .....	10,580	0.3	(nc)
Civil engineering technicians .....	50	<	33
Electronical/electronics engineering technicians .....	5,940	0.2	15
Electro-mechanical technicians .....	1,710	0.1	30
Environmental engineering technicians .....	80	<	23
Industrial engineering technicians .....	540	<	23
Mechanical engineering technicians .....	2,260	0.1	11
Physical and life science technicians .....	1,210	<	(nc)
Agricultural and food science technicians .....	270	<	39
Biological technicians .....	320	<	17
Chemical technicians, except health .....	620	<	17
Surveying, cartographic, photogrammetric, and mapping technicians .....	860	<	(nc)
Cartographers and photogrammetrists .....	50	<	25
Surveying and mapping technicians .....	510	<	15
Surveyors .....	300	<	18

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Computer and data processing services (SIC 7370)			
Scientific and technical personnel.....	897,920	45.2	(nc)
Managers of scientific and technical personnel .....	73,550	3.7	(nc)
Computer and information systems managers .....	60,660	3.1	3
Engineering managers .....	12,730	0.6	13
Natural sciences managers .....	160	<	44
Scientists .....	559,660	28.2	(nc)
Computer scientists .....	535,470	26.9	(nc)
Computer and information scientists, research .....	9,390	0.5	8
Computer software, applications .....	183,620	9.2	3
Computer software, systems .....	104,130	5.2	5
Computer systems analysts .....	144,330	7.3	10
Network and computer systems administrators .....	58,800	3.0	6
Network systems/data communications analysts .....	35,200	1.8	7
Life scientists .....	40	<	(nc)
Medical scientists, except epidemiologists .....	40	<	37
Mathematical scientists .....	12,060	0.6	(nc)
Actuaries .....	80	<	25
Operations and systems researchers and analysts .....	11,600	0.6	8
Statisticians .....	380	<	42
Physical scientists .....	290	<	(nc)
Atmospheric and space scientists .....	250	<	25
Geoscientists, except hydrologists and geographers .....	40	<	46
Social scientists .....	11,800	0.6	(nc)
Economists .....	130	<	32
Market research analysts .....	11,670	0.6	16
Engineers .....	40,240	2.0	(nc)
Civil .....	100	<	23
Computer .....	13,070	0.7	7
Electrical/electronics .....	6,230	0.3	(nc)
Electrical .....	4,150	0.2	22
Electronics .....	2,080	0.1	15
Industrial .....	7,990	0.4	9
Mechanical .....	310	<	16
Sales .....	12,330	0.6	12
Other engineers .....	210	<	(nc)
Environmental .....	140	<	34
Safety .....	70	<	40

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Computer and data processing services (SIC 7370) -- continued:			
Technicians .....	224,470	11.3	(nc)
Computer, numerical tool, and process control programmers .....	207,680	10.5	(nc)
Computer programmers .....	207,680	10.5	4
Drafters .....	2,820	0.1	(nc)
Electrical and electronics drafters .....	2,360	0.1	38
Mechanical drafters .....	460	<	39
Engineering technicians .....	13,850	0.7	(nc)
Electrical/electronics engineering technicians .....	9,230	0.5	20
Electro-mechanical technicians .....	50	<	28
Industrial engineering technicians .....	3,470	0.2	13
Mechanical engineering technicians .....	110	<	34
All other engineering technicians .....	990	0.1	(nc)
Audio and video equipment technicians .....	930	0.1	27
Broadcast technicians .....	60	<	25
Physical and life science technicians .....	70	<	(nc)
Geological and petroleum technicians .....	70	<	40
Surveying, cartographic, photogrammetric, and mapping technicians .....	50	<	(nc)
Cartographers and photogrammetrists .....	50	<	27
Misc. business services (SIC 7380)			
Scientific and technical personnel.....	32,000	1.8	(nc)
Managers of scientific and technical personnel .....	3,920	0.2	(nc)
Computer and information systems managers .....	3,710	0.2	8
Engineering managers .....	210	<	22
Scientists .....	11,480	0.6	(nc)
Computer scientists .....	9,700	0.5	(nc)
Computer and information scientists, research .....	70	<	27
Computer software, applications .....	1,460	0.1	20
Computer software, systems .....	520	<	16
Computer systems analysts .....	4,770	0.3	14
Network and computer systems administrators .....	2,140	0.1	8
Network systems/data communications analysts .....	740	<	14
Physical scientists .....	180	<	(nc)
Chemists .....	180	<	44
Social scientists .....	1,600	0.1	(nc)
Market research analysts .....	740	<	13
Survey researchers .....	860	0.1	47
Engineers .....	3,290	0.2	(nc)
Computer .....	110	<	21
Electrical/electronics .....	810	<	(nc)
Electrical .....	600	<	40
Electronics .....	210	<	29
Industrial .....	1,220	0.1	41
Mechanical .....	1,150	0.1	37

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Misc. business services (SIC 7380) -- continued:			
Technicians .....	13,310	0.7	(nc)
Computer, numerical tool, and process control programmers .....	6,260	0.4	(nc)
Computer programmers .....	6,260	0.4	8
Drafters .....	2,740	0.2	(nc)
Architectural and civil drafters .....	1,110	0.1	46
Electrical and electronics drafters .....	900	0.1	42
Mechanical drafters .....	730	<	35
Engineering technicians .....	1,900	0.1	(nc)
Electrical/electronics engineering technicians .....	790	<	20
Electro-mechanical technicians .....	330	<	20
Industrial engineering technicians .....	100	<	43
Mechanical engineering technicians .....	480	<	37
All other engineering technicians .....	200	<	(nc)
Audio and video equipment technicians .....	200	<	33
Surveying, cartographic, photogrammetric, and mapping technicians .....	2,410	0.1	(nc)
Cartographers and photogrammetrists .....	490	<	40
Surveying and mapping technicians .....	1,490	0.1	23
Surveyors .....	430	<	23
Automobile rentals, no drivers (SIC 7510)			
Scientific and technical personnel.....	2,330	1.1	(nc)
Managers of scientific and technical personnel .....	580	0.3	(nc)
Computer and information systems managers .....	580	0.3	20
Scientists .....	710	0.3	(nc)
Computer scientists .....	610	0.3	(nc)
Computer software, applications .....	510	0.2	33
Computer systems analysts .....	100	0.1	39
Mathematical scientists .....	50	<	(nc)
Operations and systems researchers and analysts .....	50	<	36
Social scientists .....	50	<	(nc)
Market research analysts .....	50	<	23
Engineers .....	230	0.1	(nc)
Mechanical .....	30	<	38
Sales .....	200	0.1	33
Technicians .....	810	0.4	(nc)
Computer, numerical tool, and process control programmers .....	730	0.3	(nc)
Computer programmers .....	730	0.3	19
Engineering technicians .....	80	<	(nc)
All other engineering technicians .....	80	<	(nc)
Transportation inspectors .....	80	<	33

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Automobile repair shops (SIC 7530)			
Scientific and technical personnel.....	1,080	0.2	(nc)
Scientists .....	340	0.1	(nc)
Computer scientists .....	340	0.1	(nc)
Computer software, applications .....	80	<	37
Computer systems analysts .....	50	<	34
Network and computer systems administrators .....	210	<	23
Engineers .....	90	<	(nc)
Electrical/electronics .....	50	<	(nc)
Electrical .....	50	<	35
Mechanical .....	40	<	50
Technicians .....	650	0.1	(nc)
Computer, numerical tool, and process control programmers .....	330	0.1	(nc)
Computer programmers .....	330	0.1	26
Drafters .....	120	<	(nc)
Electrical and electronics drafters .....	70	<	46
Mechanical drafters .....	50	<	38
Engineering technicians .....	200	<	(nc)
Electrical/electronics engineering technicians .....	150	<	39
All other engineering technicians .....	50	<	(nc)
Transportation inspectors .....	50	<	38
Automobile services, except repair (SIC 7540)			
Scientific and technical personnel.....	770	0.3	(nc)
Technicians .....	770	0.3	(nc)
Computer, numerical tool, and process control programmers .....	40	<	(nc)
Computer programmers .....	40	<	48
Engineering technicians .....	730	0.3	(nc)
All other engineering technicians .....	730	0.3	(nc)
Transportation inspectors .....	730	0.3	32
Electrical repair shops (SIC 7620)			
Scientific and technical personnel.....	3,800	3.6	(nc)
Managers of scientific and technical personnel .....	70	0.1	(nc)
Computer and information systems managers .....	40	<	40
Engineering managers .....	30	<	16
Scientists .....	270	0.3	(nc)
Computer scientists .....	270	0.3	(nc)
Computer software, applications .....	40	<	18
Computer software, systems .....	50	0.1	33
Computer systems analysts .....	30	<	37
Network and computer systems administrators .....	150	0.1	7

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Electrical repair shops (SIC 7620) -- continued:			
Engineers .....	880	0.8	(nc)
Computer .....	100	0.1	38
Electrical/electronics .....	740	0.7	(nc)
Electrical .....	430	0.4	12
Electronics .....	310	0.3	11
Industrial .....	40	<	34
Technicians .....			
Computer, numerical tool, and process control programmers .....	2,580	2.4	(nc)
Computer programmers .....	270	0.3	(nc)
Computer programmers .....	270	0.3	8
Drafters .....	200	0.2	(nc)
Electrical and electronics drafters .....	130	0.1	21
Mechanical drafters .....	70	0.1	30
Engineering technicians .....	2,110	2.0	(nc)
Electrical/electronics engineering technicians .....	1,710	1.6	10
Electro-mechanical technicians .....	310	0.3	11
All other engineering technicians .....	90	0.1	(nc)
Audio and video equipment technicians .....	90	0.1	30
Misc. repair shops (SIC 7690)			
Scientific and technical personnel.....	3,930	1.7	(nc)
Managers of scientific and technical personnel .....	150	0.1	(nc)
Engineering managers .....	150	0.1	36
Scientists .....	310	0.1	(nc)
Computer scientists .....	190	0.1	(nc)
Network and computer systems administrators .....	190	0.1	26
Social scientists .....	120	0.1	(nc)
Market research analysts .....	120	0.1	38
Engineers .....	1,570	0.7	(nc)
Electrical/electronics .....	710	0.3	(nc)
Electrical .....	550	0.2	27
Electronics .....	160	0.1	23
Mechanical .....	750	0.3	45
Sales .....	110	0.1	49
Technicians .....			
Computer, numerical tool, and process control programmers .....	1,900	0.8	(nc)
Computer programmers .....	250	0.1	(nc)
Computer programmers .....	250	0.1	34
Drafters .....	250	0.1	(nc)
Electrical and electronics drafters .....	40	<	15
Mechanical drafters .....	210	0.1	15
Engineering technicians .....	1,400	0.6	(nc)
Aerospace engineering and operations technicians .....	30	<	40
Electrical/electronics engineering technicians .....	800	0.3	23
Electro-mechanical technicians .....	570	0.3	24

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Motion picture production and services (SIC 7810)			
Scientific and technical personnel.....	15,230	5.9	(nc)
Managers of scientific and technical personnel .....	1,220	0.5	(nc)
Computer and information systems managers .....	730	0.3	25
Engineering managers .....	490	0.2	26
Scientists .....	2,690	1.0	(nc)
Computer scientists .....	2,580	1.0	(nc)
Computer software, applications .....	590	0.2	28
Computer software, systems .....	370	0.1	25
Computer systems analysts .....	820	0.3	40
Network and computer systems administrators .....	460	0.2	19
Network systems/data communications analysts .....	340	0.1	21
Social scientists .....	110	<	(nc)
Market research analysts .....	110	<	35
Engineers .....	920	0.4	(nc)
Electrical/electronics .....	250	0.1	(nc)
Electrical .....	120	0.1	34
Electronics .....	130	0.1	24
Industrial .....	570	0.2	39
Sales .....	100	<	35
Technicians .....	10,400	4.0	(nc)
Computer, numerical tool, and process control programmers .....	1,240	0.5	(nc)
Computer programmers .....	1,240	0.5	21
Engineering technicians .....	9,160	3.6	(nc)
Electrical/electronics engineering technicians .....	920	0.4	16
All other engineering technicians .....	8,240	3.2	(nc)
Audio and video equipment technicians .....	6,640	2.6	14
Broadcast technicians .....	1,600	0.6	14
Motion picture distribution and services (SIC 7820)			
Scientific and technical personnel.....	650	4.0	(nc)
Managers of scientific and technical personnel .....	140	0.9	(nc)
Computer and information systems managers .....	140	0.9	13
Scientists .....	220	1.3	(nc)
Computer scientists .....	220	1.3	(nc)
Computer software, applications .....	80	0.5	35
Computer software, systems .....	30	0.2	23
Network and computer systems administrators .....	60	0.4	15
Network systems/data communications analysts .....	50	0.3	14

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Motion picture distribution and services (SIC 7820) -- continued:			
Engineers .....	30	0.2	(nc)
Industrial .....	30	0.2	23
Technicians .....	260	1.6	(nc)
Computer, numerical tool, and process control programmers .....	200	1.2	(nc)
Computer programmers .....	200	1.2	26
Engineering technicians .....	60	0.4	(nc)
All other engineering technicians .....	60	0.4	(nc)
Audio and video equipment technicians .....	60	0.4	18
Motion picture theaters (SIC 7830)			
Scientific and technical personnel.....	220	0.2	(nc)
Managers of scientific and technical personnel .....	50	<	(nc)
Computer and information systems managers .....	50	<	35
Technicians .....	170	0.1	(nc)
Engineering technicians .....	170	0.1	(nc)
All other engineering technicians .....	170	0.1	(nc)
Audio and video equipment technicians .....	170	0.1	24
Video tape rental (SIC 7840)			
Scientific and technical personnel.....	260	0.2	(nc)
Managers of scientific and technical personnel .....	30	<	(nc)
Computer and information systems managers .....	30	<	17
Scientists .....	30	<	(nc)
Computer scientists .....	30	<	(nc)
Network and computer systems administrators .....	30	<	41
Technicians .....	200	0.1	(nc)
Computer, numerical tool, and process control programmers .....	60	<	(nc)
Computer programmers .....	60	<	14
Engineering technicians .....	140	0.1	(nc)
All other engineering technicians .....	140	0.1	(nc)
Audio and video equipment technicians .....	140	0.1	41
Producers, orchestras, and entertainers (SIC 7920)			
Scientific and technical personnel.....	3,170	1.8	(nc)
Managers of scientific and technical personnel .....	60	<	(nc)
Computer and information systems managers .....	60	<	13

See explanatory information and SOURCE at end of table.



Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Producers, orchestras, and entertainers (SIC 7920) -- continued:			
Scientists .....	170	0.1	(nc)
Computer scientists .....	40	<	(nc)
Network and computer systems administrators .....	40	<	14
Social scientists .....	130	0.1	(nc)
Market research analysts .....	130	0.1	15
Technicians .....	2,940	1.7	(nc)
Computer, numerical tool, and process control programmers .....	190	0.1	(nc)
Computer programmers .....	190	0.1	7
Engineering technicians .....	2,750	1.6	(nc)
Electronical/electronics engineering technicians .....	270	0.2	29
All other engineering technicians .....	2,480	1.4	(nc)
Audio and video equipment technicians .....	2,480	1.4	16
Commercial sports (SIC 7940)			
Scientific and technical personnel .....	1,610	1.1	(nc)
Managers of scientific and technical personnel .....	40	<	(nc)
Computer and information systems managers .....	40	<	33
Scientists .....	150	0.1	(nc)
Computer scientists .....	40	<	(nc)
Network systems/data communications analysts .....	40	<	10
Social scientists .....	110	0.1	(nc)
Market research analysts .....	110	0.1	11
Engineers .....	190	0.1	(nc)
Mechanical .....	190	0.1	24
Technicians .....	1,230	0.8	(nc)
Computer, numerical tool, and process control programmers .....	210	0.1	(nc)
Computer programmers .....	210	0.1	9
Engineering technicians .....	1,020	0.7	(nc)
All other engineering technicians .....	1,020	0.7	(nc)
Audio and video equipment technicians .....	790	0.5	11
Broadcast technicians .....	230	0.2	18
Misc. amusement, recreation services (SIC 7990)			
Scientific and technical personnel .....	2,030	0.2	(nc)
Managers of scientific and technical personnel .....	290	<	(nc)
Computer and information systems managers .....	160	<	17
Engineering managers .....	50	<	19
Natural sciences managers .....	80	<	17

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Misc. amusement, recreation services (SIC 7990) -- continued:			
Scientists .....	550	0.1	(nc)
Computer scientists .....	310	<	(nc)
Computer systems analysts .....	80	<	7
Network and computer systems administrators .....	130	<	13
Network systems/data communications analysts .....	100	<	16
Life scientists .....	30	<	(nc)
Zoologists and wildlife biologists .....	30	<	11
Social scientists .....	210	<	(nc)
Market research analysts .....	210	<	10
Engineers .....	90	<	(nc)
Other engineers .....	90	<	(nc)
Environmental .....	90	<	14
Technicians .....	1,100	0.1	(nc)
Computer, numerical tool, and process control programmers .....	420	<	(nc)
Computer programmers .....	420	<	12
Engineering technicians .....	680	0.1	(nc)
All other engineering technicians .....	680	0.1	(nc)
Audio and video equipment technicians .....	680	0.1	22
Offices and clinics of medical doctors (SIC 8010)			
Scientific and technical personnel.....	12,510	0.6	(nc)
Managers of scientific and technical personnel .....	1,580	0.1	(nc)
Computer and information systems managers .....	1,580	0.1	8
Scientists .....	10,620	0.5	(nc)
Computer scientists .....	2,650	0.1	(nc)
Computer software, applications .....	500	<	11
Computer software, systems .....	40	<	17
Computer systems analysts .....	800	<	14
Network and computer systems administrators .....	1,120	0.1	7
Network systems/data communications analysts .....	190	<	12
Life scientists .....	1,140	0.1	(nc)
Biochemists and biophysicists .....	50	<	39
Medical scientists, except epidemiologists .....	850	<	23
Microbiologists .....	240	<	28
Mathematical scientists .....	150	<	(nc)
Actuaries .....	150	<	33
Physical scientists .....	130	<	(nc)
Chemists .....	30	<	39
Physicists .....	100	<	26
Social scientists .....	6,550	0.3	(nc)
Clinical, counseling, and school psychologists .....	6,250	0.3	26
Economists .....	60	<	37
Market research analysts .....	240	<	20

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Offices and clinics of medical doctors (SIC 8010) -- continued:			
Engineers .....	160	<	(nc)
Other engineers .....	160	<	(nc)
Biomedical .....	160	<	28
Technicians .....	150	<	(nc)
Engineering technicians .....	40	<	(nc)
Environmental engineering technicians .....	40	<	41
Physical and life science technicians .....	110	<	(nc)
Biological technicians .....	110	<	21
Offices and clinics of dentists (SIC 8020)			
Scientific and technical personnel.....	30	<	(nc)
Scientists .....	30	<	(nc)
Computer scientists .....	30	<	(nc)
Network and computer systems administrators .....	30	<	46
Offices of osteopathic physicians (SIC 8030)			
Scientific and technical personnel.....	50	0.1	(nc)
Scientists .....	50	0.1	(nc)
Social scientists .....	50	0.1	(nc)
Clinical, counseling, and school psychologists .....	50	0.1	23
Offices of other health practitioners (SIC 8040)			
Scientific and technical personnel.....	10,000	2.1	(nc)
Managers of scientific and technical personnel .....	80	<	(nc)
Computer and information systems managers .....	80	<	10
Scientists .....	9,840	2.1	(nc)
Computer scientists .....	300	0.1	(nc)
Computer software, applications .....	140	<	30
Network and computer systems administrators .....	110	<	19
Network systems/data communications analysts .....	50	<	33
Life scientists .....	120	<	(nc)
Medical scientists, except epidemiologists .....	120	<	35
Social scientists .....	9,420	2.0	(nc)
Clinical, counseling, and school psychologists .....	9,290	2.0	9
Industrial-Organizational psychologists .....	40	<	37
Market research analysts .....	90	<	23
Technicians .....	80	<	(nc)
Computer, numerical tool, and process control programmers .....	80	<	(nc)
Computer programmers .....	80	<	38

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Nursing and personal care facilities (SIC 8050)			
Scientific and technical personnel.....	1,810	0.1	(nc)
Managers of scientific and technical personnel .....	470	<	(nc)
Computer and information systems managers .....	470	<	8
Scientists .....	1,170	0.1	(nc)
Computer scientists .....	370	<	(nc)
Computer software, applications .....	110	<	20
Network and computer systems administrators .....	260	<	10
Social scientists .....	800	<	(nc)
Clinical, counseling, and school psychologists .....	390	<	15
Industrial-Organizational psychologists .....	50	<	43
Market research analysts .....	310	<	14
Sociologists .....	50	<	38
Technicians .....	170	<	(nc)
Computer, numerical tool, and process control programmers .....	170	<	(nc)
Computer programmers .....	170	<	16
Hospitals (SIC 8060)			
Scientific and technical personnel.....	70,810	1.4	(nc)
Managers of scientific and technical personnel .....	8,050	0.2	(nc)
Computer and information systems managers .....	7,040	0.1	3
Engineering managers .....	510	<	6
Natural sciences managers .....	500	<	11
Scientists .....	50,670	1.0	(nc)
Computer scientists .....	23,950	0.5	(nc)
Computer and information scientists, research .....	70	<	13
Computer software, applications .....	6,190	0.1	5
Computer software, systems .....	720	<	17
Computer systems analysts .....	8,700	0.2	4
Network and computer systems administrators .....	5,340	0.1	3
Network systems/data communications analysts .....	2,930	0.1	5
Life scientists .....	12,350	0.2	(nc)
Biochemists and biophysicists .....	560	<	24
Conservation scientists .....	40	<	17
Epidemiologists .....	590	<	9
Medical scientists, except epidemiologists .....	9,920	0.2	15
Microbiologists .....	1,240	<	5
Mathematical scientists .....	1,030	<	(nc)
Operations and systems researchers and analysts .....	600	<	8
Statisticians .....	430	<	12

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Hospitals (SIC 8060) -- continued:			
Physical scientists .....	1,590	<	(nc)
Chemists .....	430	<	12
Environmental scientists and specialists, including health .....	380	<	34
Physicists .....	780	<	8
Social scientists .....	11,750	0.2	(nc)
Clinical, counseling, and school psychologists .....	10,830	0.2	3
Historians .....	70	<	16
Industrial-Organizational psychologists .....	120	<	10
Market research analysts .....	730	<	6
Engineers .....	2,130	<	(nc)
Civil .....	160	<	21
Computer .....	30	<	16
Electrical/electronics .....	80	<	(nc)
Electrical .....	80	<	12
Industrial .....	60	<	11
Mechanical .....	140	<	10
Other engineers .....	1,660	<	(nc)
Biomedical .....	1,450	<	5
Safety .....	210	<	20
Technicians .....	9,960	0.2	(nc)
Computer, numerical tool, and process control programmers .....	5,800	0.1	(nc)
Computer programmers .....	5,800	0.1	4
Drafters .....	80	<	(nc)
Architectural and civil drafters .....	50	<	11
Electrical and electronics drafters .....	30	<	26
Engineering technicians .....	1,080	<	(nc)
Civil engineering technicians .....	40	<	14
Electronical/electronics engineering technicians .....	400	<	14
Electro-mechanical technicians .....	40	<	42
Environmental engineering technicians .....	90	<	24
Mechanical engineering technicians .....	140	<	17
All other engineering technicians .....	370	<	(nc)
Audio and video equipment technicians .....	370	<	6
Mathematical technicians .....	80	<	29
Physical and life science technicians .....	2,920	0.1	(nc)
Biological technicians .....	1,590	<	19
Chemical technicians, except health .....	360	<	46
Environmental science and protection technicians, including health .....	930	<	17
Nuclear technicians .....	40	<	19

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Medical and dental laboratories (SIC 8070)			
Scientific and technical personnel.....	6,960	3.1	(nc)
Managers of scientific and technical personnel .....	880	0.4	(nc)
Computer and information systems managers .....	500	0.2	8
Natural sciences managers .....	380	0.2	12
Scientists .....	3,380	1.5	(nc)
Computer scientists .....	1,150	0.5	(nc)
Computer software, applications .....	290	0.1	9
Computer software, systems .....	60	<	9
Computer systems analysts .....	310	0.1	14
Network and computer systems administrators .....	370	0.2	12
Network systems/data communications analysts .....	120	0.1	20
Life scientists .....	1,830	0.8	(nc)
Biochemists and biophysicists .....	120	0.1	29
Medical scientists, except epidemiologists .....	740	0.3	20
Microbiologists .....	970	0.4	15
Physical scientists .....	270	0.1	(nc)
Chemists .....	270	0.1	32
Social scientists .....	130	0.1	(nc)
Market research analysts .....	130	0.1	27
Engineers .....	150	0.1	(nc)
Sales .....	50	<	29
Other engineers .....	100	<	(nc)
Biomedical .....	100	<	13
Technicians .....	2,550	1.1	(nc)
Computer, numerical tool, and process control programmers .....	690	0.3	(nc)
Computer programmers .....	690	0.3	4
Physical and life science technicians .....	1,860	0.8	(nc)
Biological technicians .....	1,740	0.8	16
Chemical technicians, except health .....	120	0.1	46
Home health care services (SIC 8080)			
Scientific and technical personnel.....	1,710	0.3	(nc)
Managers of scientific and technical personnel .....	430	0.1	(nc)
Computer and information systems managers .....	430	0.1	6

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Home health care services (SIC 8080) -- continued:			
Scientists .....	1,010	0.2	(nc)
Computer scientists .....	320	0.1	(nc)
Computer software, applications .....	50	<	17
Network and computer systems administrators .....	210	<	7
Network systems/data communications analysts .....	60	<	21
Mathematical scientists .....	30	<	(nc)
Operations and systems researchers and analysts .....	30	<	38
Social scientists .....	660	0.1	(nc)
Clinical, counseling, and school psychologists .....	550	0.1	24
Market research analysts .....	110	<	18
Technicians .....	270	<	(nc)
Computer, numerical tool, and process control programmers .....	270	<	(nc)
Computer programmers .....	270	<	10
Health and allied services, n.e.c. (SIC 8090)			
Scientific and technical personnel.....	7,740	2.1	(nc)
Managers of scientific and technical personnel .....	780	0.2	(nc)
Computer and information systems managers .....	720	0.2	7
Natural sciences managers .....	60	<	15
Scientists .....	6,360	1.7	(nc)
Computer scientists .....	660	0.2	(nc)
Computer systems analysts .....	140	<	6
Network and computer systems administrators .....	450	0.1	5
Network systems/data communications analysts .....	70	<	11
Life scientists .....	150	<	(nc)
Medical scientists, except epidemiologists .....	150	<	16
Mathematical scientists .....	30	<	(nc)
Statisticians .....	30	<	30
Social scientists .....	5,520	1.5	(nc)
Clinical, counseling, and school psychologists .....	5,110	1.4	5
Market research analysts .....	410	0.1	27
Engineers .....	40	<	(nc)
Other engineers .....	40	<	(nc)
Biomedical .....	40	<	31
Technicians .....	560	0.2	(nc)
Computer, numerical tool, and process control programmers .....	560	0.2	(nc)
Computer programmers .....	560	0.2	9

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Legal services (SIC 8110)			
Scientific and technical personnel.....	8,790	0.8	(nc)
Managers of scientific and technical personnel .....	2,000	0.2	(nc)
Computer and information systems managers .....	2,000	0.2	6
Scientists .....	6,020	0.6	(nc)
Computer scientists .....	5,890	0.6	(nc)
Computer software, applications .....	1,020	0.1	13
Computer software, systems .....	400	<	11
Computer systems analysts .....	1,300	0.1	12
Network and computer systems administrators .....	2,430	0.2	7
Network systems/data communications analysts .....	740	0.1	7
Social scientists .....	130	<	(nc)
Market research analysts .....	130	<	11
Technicians .....	770	0.1	(nc)
Computer, numerical tool, and process control programmers .....	770	0.1	(nc)
Computer programmers .....	770	0.1	13
Elementary and secondary schools (SIC 8210)			
Scientific and technical personnel.....	55,480	0.7	(nc)
Managers of scientific and technical personnel .....	1,140	<	(nc)
Computer and information systems managers .....	1,090	<	7
Engineering managers .....	50	<	16
Scientists .....	49,280	0.6	(nc)
Computer scientists .....	12,670	0.2	(nc)
Computer software, applications .....	320	<	4
Computer software, systems .....	180	<	22
Computer systems analysts .....	1,290	<	5
Network and computer systems administrators .....	10,100	0.1	5
Network systems/data communications analysts .....	780	<	7
Mathematical scientists .....	90	<	(nc)
Operations and systems researchers and analysts .....	90	<	13
Social scientists .....	36,520	0.5	(nc)
Clinical, counseling, and school psychologists .....	36,520	0.5	3
Technicians .....	5,060	0.1	(nc)
Computer, numerical tool, and process control programmers .....	4,100	0.1	(nc)
Computer programmers .....	4,100	0.1	4
Engineering technicians .....	960	<	(nc)
Electrical/electronics engineering technicians .....	70	<	6
All other engineering technicians .....	890	<	(nc)
Audio and video equipment technicians .....	700	<	13
Broadcast technicians .....	190	<	37

See explanatory information and SOURCE at end of table.



Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Colleges, universities, and professional (SIC 8220)			
Scientific and technical personnel.....	84,480	2.7	(nc)
Managers of scientific and technical personnel .....	12,000	0.4	(nc)
Computer and information systems managers .....	8,800	0.3	4
Engineering managers .....	1,290	<	8
Natural sciences managers .....	1,910	0.1	8
Scientists .....	46,320	1.5	(nc)
Computer scientists .....	29,460	0.9	(nc)
Computer and information scientists, research .....	350	<	10
Computer software, applications .....	4,040	0.1	8
Computer software, systems .....	1,190	<	16
Computer systems analysts .....	13,220	0.4	3
Network and computer systems administrators .....	7,640	0.2	3
Network systems/data communications analysts .....	3,020	0.1	4
Life scientists .....	9,070	0.3	(nc)
Agricultural scientists .....	1,250	<	14
Biochemists and biophysicists .....	430	<	11
Conservation scientists .....	90	<	26
Foresters .....	110	<	19
Medical scientists, except epidemiologists .....	7,030	0.2	15
Zoologists and wildlife biologists .....	160	<	5
Mathematical scientists .....	2,470	0.1	(nc)
Mathematicians .....	240	<	15
Operations and systems researchers and analysts .....	1,120	<	9
Statisticians .....	1,110	<	9
Physical scientists .....	2,150	0.1	(nc)
Environmental scientists and specialists, including health .....	1,860	0.1	15
Geoscientists, except hydrologists and geographers .....	290	<	31
Social scientists .....	3,170	0.1	(nc)
Anthropologists and archeologists .....	30	<	15
Clinical, counseling, and school psychologists .....	2,790	0.1	6
Economists .....	150	<	23
Market research analysts .....	200	<	11
Engineers .....	1,820	0.1	(nc)
Civil .....	630	<	7
Electrical/electronics .....	410	<	(nc)
Electrical .....	180	<	12
Electronics .....	230	<	13
Industrial .....	50	<	7
Mechanical .....	450	<	7
Other engineers .....	280	<	(nc)
Agricultural .....	40	<	4
Biomedical .....	120	<	12
Chemical .....	60	<	20
Safety .....	60	<	19

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Colleges, universities, and professional (SIC 8220) -- continued:			
Technicians .....	24,340	0.8	(nc)
Computer, numerical tool, and process control programmers .....	13,470	0.4	(nc)
Computer programmers .....	13,470	0.4	4
Drafters .....	40	<	(nc)
Electrical and electronics drafters .....	40	<	32
Engineering technicians .....	5,930	0.2	(nc)
Civil engineering technicians .....	190	<	8
Electrical/electronics engineering technicians .....	800	<	11
Mechanical engineering technicians .....	50	<	6
All other engineering technicians .....	4,890	0.2	(nc)
Audio and video equipment technicians .....	3,760	0.1	3
Broadcast technicians .....	1,130	<	7
Mathematical technicians .....	60	<	22
Physical and life science technicians .....	4,760	0.2	(nc)
Agricultural and food science technicians .....	2,330	0.1	24
Biological technicians .....	1,590	0.1	13
Chemical technicians, except health .....	550	<	9
Forest and conservation technicians .....	190	<	40
Geological and petroleum technicians .....	40	<	12
Nuclear technicians .....	60	<	20
Surveying, cartographic, photogrammetric, and mapping technicians .....	80	<	(nc)
Cartographers and photogrammetrists .....	80	<	20
Libraries (SIC 8230)			
Scientific and technical personnel .....	290	1.1	(nc)
Managers of scientific and technical personnel .....	60	0.2	(nc)
Computer and information systems managers .....	60	0.2	4
Scientists .....	190	0.7	(nc)
Computer scientists .....	190	0.7	(nc)
Network and computer systems administrators .....	190	0.7	13
Technicians .....	40	0.2	(nc)
Computer, numerical tool, and process control programmers .....	40	0.2	(nc)
Computer programmers .....	40	0.2	21
Vocational schools (SIC 8240)			
Scientific and technical personnel .....	2,260	1.8	(nc)
Managers of scientific and technical personnel .....	290	0.2	(nc)
Computer and information systems managers .....	290	0.2	9

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Vocational schools (SIC 8240) -- continued:			
Scientists .....	1,430	1.1	(nc)
Computer scientists .....	1,380	1.1	(nc)
Computer software, applications .....	180	0.1	36
Computer software, systems .....	80	0.1	25
Computer systems analysts .....	450	0.4	18
Network and computer systems administrators .....	460	0.4	11
Network systems/data communications analysts .....	210	0.2	30
Social scientists .....	50	<	(nc)
Market research analysts .....	50	<	27
Engineers .....	50	<	(nc)
Sales .....	50	<	29
Technicians .....	490	0.4	(nc)
Computer, numerical tool, and process control programmers .....	410	0.3	(nc)
Computer programmers .....	410	0.3	23
Engineering technicians .....	80	0.1	(nc)
All other engineering technicians .....	80	0.1	(nc)
Audio and video equipment technicians .....	80	0.1	18
Schools and educational services, n.e.c. (SIC 8290)			
Scientific and technical personnel.....	2,320	1.0	(nc)
Managers of scientific and technical personnel .....	370	0.2	(nc)
Computer and information systems managers .....	300	0.1	8
Engineering managers .....	30	<	29
Natural sciences managers .....	40	<	33
Scientists .....	1,250	0.6	(nc)
Computer scientists .....	900	0.4	(nc)
Computer software, applications .....	140	0.1	19
Computer systems analysts .....	230	0.1	13
Network and computer systems administrators .....	350	0.2	21
Network systems/data communications analysts .....	180	0.1	16
Social scientists .....	350	0.2	(nc)
Clinical, counseling, and school psychologists .....	220	0.1	12
Market research analysts .....	130	0.1	38
Technicians .....	700	0.3	(nc)
Computer, numerical tool, and process control programmers .....	550	0.2	(nc)
Computer programmers .....	550	0.2	14
Engineering technicians .....	150	0.1	(nc)
All other engineering technicians .....	150	0.1	(nc)
Audio and video equipment technicians .....	150	0.1	23

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Individual and family services (SIC 8320)			
Scientific and technical personnel.....	10,970	1.3	(nc)
Managers of scientific and technical personnel .....	720	0.1	(nc)
Computer and information systems managers .....	720	0.1	4
Scientists .....	9,640	1.1	(nc)
Computer scientists .....	1,090	0.1	(nc)
Computer software, applications .....	190	<	8
Computer software, systems .....	50	<	17
Computer systems analysts .....	140	<	20
Network and computer systems administrators .....	600	0.1	5
Network systems/data communications analysts .....	110	<	17
Mathematical scientists .....	40	<	(nc)
Operations and systems researchers and analysts .....	40	<	34
Social scientists .....	8,510	1.0	(nc)
Clinical, counseling, and school psychologists .....	8,510	1.0	6
Technicians .....	610	0.1	(nc)
Computer, numerical tool, and process control programmers .....	610	0.1	(nc)
Computer programmers .....	610	0.1	8
Job training and related services (SIC 8330)			
Scientific and technical personnel.....	1,640	0.5	(nc)
Managers of scientific and technical personnel .....	320	0.1	(nc)
Computer and information systems managers .....	320	0.1	5
Scientists .....	1,050	0.3	(nc)
Computer scientists .....	440	0.1	(nc)
Computer software, applications .....	70	<	14
Computer systems analysts .....	70	<	13
Network and computer systems administrators .....	300	0.1	6
Physical scientists .....	60	<	(nc)
Environmental scientists and specialists, including health .....	60	<	39
Social scientists .....	550	0.2	(nc)
Clinical, counseling, and school psychologists .....	450	0.2	10
Market research analysts .....	100	<	27
Technicians .....	270	0.1	(nc)
Computer, numerical tool, and process control programmers .....	270	0.1	(nc)
Computer programmers .....	270	0.1	6

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Child day care services (SIC 8350)			
Scientific and technical personnel.....	480	0.1	(nc)
Managers of scientific and technical personnel .....	100	<	(nc)
Computer and information systems managers .....	100	<	12
Scientists .....	280	<	(nc)
Computer scientists .....	60	<	(nc)
Network and computer systems administrators .....	60	<	7
Social scientists .....	220	<	(nc)
Clinical, counseling, and school psychologists .....	220	<	14
Technicians .....	100	<	(nc)
Computer, numerical tool, and process control programmers .....	100	<	(nc)
Computer programmers .....	100	<	18
Residential care (SIC 8360)			
Scientific and technical personnel.....	4,900	0.6	(nc)
Managers of scientific and technical personnel .....	550	0.1	(nc)
Computer and information systems managers .....	520	0.1	15
Natural sciences managers .....	30	<	48
Scientists .....	4,090	0.5	(nc)
Computer scientists .....	620	0.1	(nc)
Computer software, applications .....	80	<	20
Computer systems analysts .....	110	<	14
Network and computer systems administrators .....	310	<	8
Network systems/data communications analysts .....	120	<	48
Social scientists .....	3,470	0.4	(nc)
Clinical, counseling, and school psychologists .....	3,340	0.4	10
Market research analysts .....	130	<	14
Technicians .....	260	<	(nc)
Computer, numerical tool, and process control programmers .....	260	<	(nc)
Computer programmers .....	260	<	11
Social services, n.e.c. (SIC 8390)			
Scientific and technical personnel.....	3,110	1.4	(nc)
Managers of scientific and technical personnel .....	620	0.3	(nc)
Computer and information systems managers .....	620	0.3	8

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Social services, n.e.c. (SIC 8390) -- continued:			
Scientists .....	2,120	1.0	(nc)
Computer scientists .....	870	0.4	(nc)
Computer systems analysts .....	110	0.1	21
Network and computer systems administrators .....	670	0.3	13
Network systems/data communications analysts .....	90	<	17
Mathematical scientists .....	100	0.1	(nc)
Statisticians .....	100	0.1	35
Physical scientists .....	130	0.1	(nc)
Environmental scientists and specialists, including health .....	130	0.1	32
Social scientists .....	1,020	0.5	(nc)
Clinical, counseling, and school psychologists .....	390	0.2	9
Economists .....	150	0.1	32
Market research analysts .....	140	0.1	26
Survey researchers .....	190	0.1	41
Urban and regional planners .....	150	0.1	26
Technicians .....	370	0.2	(nc)
Computer, numerical tool, and process control programmers .....	370	0.2	(nc)
Computer programmers .....	370	0.2	13
Museums and art galleries (SIC 8410)			
Scientific and technical personnel.....	1,190	1.4	(nc)
Managers of scientific and technical personnel .....	260	0.3	(nc)
Computer and information systems managers .....	50	0.1	10
Natural sciences managers .....	210	0.3	16
Scientists .....	490	0.6	(nc)
Computer scientists .....	250	0.3	(nc)
Computer software, applications .....	80	0.1	36
Network and computer systems administrators .....	70	0.1	22
Network systems/data communications analysts .....	100	0.1	24
Life scientists .....	70	0.1	(nc)
Agricultural scientists .....	70	0.1	32
Social scientists .....	170	0.2	(nc)
Anthropologists and archeologists .....	50	0.1	5
Market research analysts .....	120	0.1	15
Engineers .....	50	0.1	(nc)
Other engineers .....	50	0.1	(nc)
Environmental .....	50	0.1	26
Technicians .....	390	0.5	(nc)
Computer, numerical tool, and process control programmers .....	110	0.1	(nc)
Computer programmers .....	110	0.1	10
Engineering technicians .....	280	0.3	(nc)
All other engineering technicians .....	280	0.3	(nc)
Audio and video equipment technicians .....	280	0.3	8

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Botanical and zoological gardens (SIC 8420)			
Scientific and technical personnel.....	1,090	4.0	(nc)
Managers of scientific and technical personnel .....	120	0.4	(nc)
Natural sciences managers .....	120	0.4	7
Scientists .....	900	3.3	(nc)
Life scientists .....	860	3.1	(nc)
Agricultural scientists .....	140	0.5	20
Conservation scientists .....	50	0.2	25
Zoologists and wildlife biologists .....	670	2.4	21
Social scientists .....	40	0.2	(nc)
Market research analysts .....	40	0.2	34
Technicians .....	70	0.3	(nc)
Engineering technicians .....	40	0.2	(nc)
All other engineering technicians .....	40	0.2	(nc)
Audio and video equipment technicians .....	40	0.2	14
Physical and life science technicians .....	30	0.1	(nc)
Biological technicians .....	30	0.1	15
Business associations (SIC 8610)			
Scientific and technical personnel.....	3,980	3.5	(nc)
Managers of scientific and technical personnel .....	760	0.7	(nc)
Computer and information systems managers .....	760	0.7	7
Scientists .....	2,570	2.3	(nc)
Computer scientists .....	1,150	1.0	(nc)
Computer software, applications .....	150	0.1	39
Computer systems analysts .....	150	0.1	25
Network and computer systems administrators .....	640	0.6	8
Network systems/data communications analysts .....	210	0.2	14
Mathematical scientists .....	320	0.3	(nc)
Statisticians .....	320	0.3	10
Social scientists .....	1,100	1.0	(nc)
Economists .....	170	0.2	16
Market research analysts .....	610	0.5	25
Survey researchers .....	320	0.3	25
Technicians .....	650	0.6	(nc)
Computer, numerical tool, and process control programmers .....	580	0.5	(nc)
Computer programmers .....	580	0.5	7
Physical and life science technicians .....	70	0.1	(nc)
Agricultural and food science technicians .....	70	0.1	17

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Professional organizations (SIC 8620)			
Scientific and technical personnel.....	4,080	5.7	(nc)
Managers of scientific and technical personnel .....	680	0.9	(nc)
Computer and information systems managers .....	680	0.9	5
Scientists .....	2,680	3.7	(nc)
Computer scientists .....	2,060	2.9	(nc)
Computer software, applications .....	950	1.3	46
Computer systems analysts .....	80	0.1	16
Network and computer systems administrators .....	730	1.0	11
Network systems/data communications analysts .....	300	0.4	16
Mathematical scientists .....	250	0.4	(nc)
Operations and systems researchers and analysts .....	40	0.1	33
Statisticians .....	210	0.3	13
Social scientists .....	370	0.5	(nc)
Economists .....	70	0.1	20
Market research analysts .....	140	0.2	11
Survey researchers .....	160	0.2	17
Technicians .....	720	1.0	(nc)
Computer, numerical tool, and process control programmers .....	720	1.0	(nc)
Computer programmers .....	720	1.0	7
Labor organizations (SIC 8630)			
Scientific and technical personnel.....	830	0.6	(nc)
Managers of scientific and technical personnel .....	160	0.1	(nc)
Computer and information systems managers .....	160	0.1	10
Scientists .....	390	0.3	(nc)
Computer scientists .....	160	0.1	(nc)
Network and computer systems administrators .....	160	0.1	8
Social scientists .....	230	0.2	(nc)
Economists .....	130	0.1	36
Survey researchers .....	100	0.1	15
Engineers .....	50	<	(nc)
Industrial .....	50	<	42
Technicians .....	230	0.2	(nc)
Computer, numerical tool, and process control programmers .....	230	0.2	(nc)
Computer programmers .....	230	0.2	12

See explanatory information and SOURCE at end of table.



Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Civic and social associations (SIC 8640)			
Scientific and technical personnel.....	1,590	0.4	(nc)
Managers of scientific and technical personnel .....	390	0.1	(nc)
Computer and information systems managers .....	390	0.1	7
Scientists .....	850	0.2	(nc)
Computer scientists .....	360	0.1	(nc)
Computer systems analysts .....	30	<	20
Network and computer systems administrators .....	300	0.1	9
Network systems/data communications analysts .....	30	<	32
Life scientists .....	30	<	(nc)
Conservation scientists .....	30	<	20
Mathematical scientists .....	50	<	(nc)
Statisticians .....	50	<	41
Physical scientists .....	130	<	(nc)
Environmental scientists and specialists, including health .....	130	<	35
Social scientists .....	280	0.1	(nc)
Clinical, counseling, and school psychologists .....	210	0.1	15
Survey researchers .....	30	<	25
Urban and regional planners .....	40	<	20
Technicians .....	350	0.1	(nc)
Computer, numerical tool, and process control programmers .....	180	<	(nc)
Computer programmers .....	180	<	13
Engineering technicians .....	80	<	(nc)
All other engineering technicians .....	80	<	(nc)
Audio and video equipment technicians .....	80	<	38
Physical and life science technicians .....	90	<	(nc)
Environmental science and protection technicians, including health .....	90	<	24
Political organizations (SIC 8650)			
Scientific and technical personnel.....	130	2.0	(nc)
Managers of scientific and technical personnel .....	40	0.6	(nc)
Computer and information systems managers .....	40	0.6	21
Scientists .....	50	0.8	(nc)
Social scientists .....	50	0.8	(nc)
Political scientists .....	50	0.8	17
Technicians .....	40	0.6	(nc)
Computer, numerical tool, and process control programmers .....	40	0.6	(nc)
Computer programmers .....	40	0.6	7

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Religious organizations (SIC 8660)			
Scientific and technical personnel.....	1,090	0.7	(nc)
Managers of scientific and technical personnel .....	190	0.1	(nc)
Computer and information systems managers .....	190	0.1	20
Scientists .....	400	0.2	(nc)
Computer scientists .....	310	0.2	(nc)
Computer software, applications .....	40	<	24
Network and computer systems administrators .....	230	0.1	13
Network systems/data communications analysts .....	40	<	20
Social scientists .....	90	0.1	(nc)
Clinical, counseling, and school psychologists .....	90	0.1	19
Technicians .....	500	0.3	(nc)
Computer, numerical tool, and process control programmers .....	200	0.1	(nc)
Computer programmers .....	200	0.1	10
Engineering technicians .....	300	0.2	(nc)
All other engineering technicians .....	300	0.2	(nc)
Audio and video equipment technicians .....	210	0.1	22
Broadcast technicians .....	90	0.1	38
Membership organizations, n.e.c. (SIC 8690)			
Scientific and technical personnel.....	1,360	1.7	(nc)
Managers of scientific and technical personnel .....	260	0.3	(nc)
Computer and information systems managers .....	220	0.3	7
Natural sciences managers .....	40	0.1	40
Scientists .....	780	1.0	(nc)
Computer scientists .....	360	0.4	(nc)
Computer software, applications .....	30	<	35
Computer systems analysts .....	50	0.1	20
Network and computer systems administrators .....	190	0.2	8
Network systems/data communications analysts .....	90	0.1	28
Life scientists .....	290	0.4	(nc)
Agricultural scientists .....	30	<	21
Conservation scientists .....	180	0.2	16
Zoologists and wildlife biologists .....	80	0.1	13
Physical scientists .....	50	0.1	(nc)
Environmental scientists and specialists, including health .....	50	0.1	25
Social scientists .....	80	0.1	(nc)
Market research analysts .....	80	0.1	12

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Membership organizations, n.e.c. (SIC 8690) -- continued:			
Technicians .....	320	0.4	(nc)
Computer, numerical tool, and process control programmers .....	240	0.3	(nc)
Computer programmers .....	240	0.3	10
Physical and life science technicians .....	80	0.1	(nc)
Biological technicians .....	40	0.1	31
Forest and conservation technicians .....	40	0.1	30
Engineering and architectural services (SIC 8710)			
Scientific and technical personnel.....	560,270	54.2	(nc)
Managers of scientific and technical personnel .....	42,290	4.1	(nc)
Computer and information systems managers .....	4,250	0.4	7
Engineering managers .....	37,280	3.6	3
Natural sciences managers .....	760	0.1	37
Scientists .....	67,650	6.6	(nc)
Computer scientists .....	45,260	4.4	(nc)
Computer and information scientists, research .....	1,480	0.1	21
Computer software, applications .....	15,220	1.5	12
Computer software, systems .....	13,260	1.3	10
Computer systems analysts .....	7,610	0.7	9
Network and computer systems administrators .....	4,770	0.5	7
Network systems/data communications analysts .....	2,920	0.3	12
Life scientists .....	450	0.1	(nc)
Agricultural scientists .....	70	<	22
Biochemists and biophysicists .....	80	<	32
Zoologists and wildlife biologists .....	300	<	21
Mathematical scientists .....	3,990	0.4	(nc)
Operations and systems researchers and analysts .....	3,990	0.4	49
Physical scientists .....	13,570	1.3	(nc)
Atmospheric and space scientists .....	80	<	21
Chemists .....	970	0.1	13
Environmental scientists and specialists, including health .....	6,460	0.6	7
Geoscientists, except hydrologists and geographers .....	3,690	0.4	9
Hydrologists .....	1,470	0.1	12
Materials scientists .....	490	0.1	41
Physicists .....	410	<	21
Social scientists .....	4,380	0.4	(nc)
Anthropologists and archeologists .....	300	<	21
Economists .....	140	<	34
Geographers .....	70	<	28
Market research analysts .....	1,300	0.1	13
Survey researchers .....	100	<	33
Urban and regional planners .....	2,470	0.2	13

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Engineering and architectural services (SIC 8710) -- continued:			
Engineers .....	209,760	20.3	(nc)
Aeronautical .....	4,390	0.4	14
Civil .....	96,070	9.3	4
Computer .....	3,790	0.4	28
Electrical/electronics .....	37,920	3.7	(nc)
Electrical .....	30,240	2.9	7
Electronics .....	7,680	0.7	16
Industrial .....	7,250	0.7	29
Mechanical .....	31,250	3.0	5
Sales .....	2,880	0.3	38
Other engineers .....	26,210	2.5	(nc)
Agricultural .....	320	<	20
Biomedical .....	200	<	40
Chemical .....	3,510	0.3	11
Environmental .....	13,100	1.3	11
Marine .....	1,880	0.2	20
Metallurgical/metallurgists .....	770	0.1	17
Mining and geological .....	1,310	0.1	20
Nuclear .....	1,480	0.1	20
Petroleum .....	1,740	0.2	25
Safety .....	1,900	0.2	32
Technicians .....	240,570	23.3	(nc)
Computer, numerical tool, and process control programmers .....	4,560	0.4	(nc)
Computer programmers .....	4,560	0.4	11
Drafters .....	89,120	8.6	(nc)
Architectural and civil drafters .....	65,400	6.3	4
Electrical and electronics drafters .....	7,990	0.8	10
Mechanical drafters .....	15,730	1.5	8
Engineering technicians .....	62,200	6.0	(nc)
Aerospace engineering and operations technicians .....	1,490	0.1	26
Civil engineering technicians .....	34,120	3.3	5
Electrical/electronics engineering technicians .....	11,960	1.2	6
Electro-mechanical technicians .....	1,150	0.1	17
Environmental engineering technicians .....	4,920	0.5	13
Industrial engineering technicians .....	810	0.1	26
Mechanical engineering technicians .....	7,640	0.7	8
All other engineering technicians .....	110	<	(nc)
Audio and video equipment technicians .....	40	<	42
Traffic technicians .....	70	<	32
Physical and life science technicians .....	3,540	0.4	(nc)
Biological technicians .....	260	<	31
Chemical technicians, except health .....	810	0.1	20
Environmental science and protection technicians, including health .....	1,360	0.1	10
Geological and petroleum technicians .....	1,110	0.1	25

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Engineering and architectural services (SIC 8710) -- continued:			
Surveying, cartographic, photogrammetric, and mapping technicians .....	81,150	7.9	(nc)
Cartographers and photogrammetrists .....	2,790	0.3	12
Surveying and mapping technicians .....	35,930	3.5	6
Surveyors .....	42,430	4.1	5
Accounting, auditing, and bookkeeping (SIC 8720)			
Scientific and technical personnel.....	20,270	3.0	(nc)
Managers of scientific and technical personnel .....	3,200	0.5	(nc)
Computer and information systems managers .....	3,130	0.5	8
Engineering managers .....	70	<	19
Scientists .....	13,730	2.0	(nc)
Computer scientists .....	11,750	1.7	(nc)
Computer and information scientists, research .....	290	<	18
Computer software, applications .....	2,450	0.4	13
Computer software, systems .....	1,340	0.2	17
Computer systems analysts .....	4,010	0.6	9
Network and computer systems administrators .....	2,690	0.4	9
Network systems/data communications analysts .....	970	0.1	13
Mathematical scientists .....	1,210	0.2	(nc)
Actuaries .....	150	<	32
Operations and systems researchers and analysts .....	1,060	0.2	17
Social scientists .....	770	0.1	(nc)
Market research analysts .....	770	0.1	19
Engineers .....	370	0.1	(nc)
Civil .....	40	<	35
Industrial .....	50	<	42
Sales .....	250	<	26
Other engineers .....	30	<	(nc)
Safety .....	30	<	32
Technicians .....	2,970	0.4	(nc)
Computer, numerical tool, and process control programmers .....	2,450	0.4	(nc)
Computer programmers .....	2,450	0.4	13
Drafters .....	60	<	(nc)
Architectural and civil drafters .....	60	<	34
Engineering technicians .....	360	0.1	(nc)
Electrical/electronics engineering technicians .....	360	0.1	42
Physical and life science technicians .....	100	<	(nc)
Chemical technicians, except health .....	100	<	34

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Research and testing services (SIC 8730)			
Scientific and technical personnel.....	241,530	36.0	(nc)
Managers of scientific and technical personnel .....	20,400	3.1	(nc)
Computer and information systems managers .....	5,340	0.8	6
Engineering managers .....	6,910	1.0	5
Natural sciences managers .....	8,150	1.2	7
Scientists .....	118,990	17.8	(nc)
Computer scientists .....	26,390	3.9	(nc)
Computer and information scientists, research .....	2,580	0.4	11
Computer software, applications .....	6,190	0.9	7
Computer software, systems .....	7,500	1.1	11
Computer systems analysts .....	4,550	0.7	6
Network and computer systems administrators .....	3,380	0.5	8
Network systems/data communications analysts .....	2,190	0.3	7
Life scientists .....	29,360	4.4	(nc)
Agricultural scientists .....	1,480	0.2	11
Biochemists and biophysicists .....	6,550	1.0	11
Epidemiologists .....	400	0.1	17
Medical scientists, except epidemiologists .....	16,130	2.4	16
Microbiologists .....	3,060	0.5	14
Zoologists and wildlife biologists .....	1,740	0.3	47
Mathematical scientists .....	4,930	0.7	(nc)
Mathematicians .....	800	0.1	23
Operations and systems researchers and analysts .....	1,670	0.3	22
Statisticians .....	2,460	0.4	14
Physical scientists .....	32,570	4.9	(nc)
Astronomers .....	410	0.1	17
Atmospheric and space scientists .....	1,550	0.2	20
Chemists .....	19,820	3.0	11
Environmental scientists and specialists, including health .....	4,240	0.6	8
Geoscientists, except hydrologists and geographers .....	820	0.1	10
Hydrologists .....	130	<	14
Materials scientists .....	1,590	0.2	16
Physicists .....	4,010	0.6	16
Social scientists .....	25,740	3.9	(nc)
Anthropologists and archeologists .....	1,460	0.2	16
Economists .....	2,310	0.3	31
Historians .....	210	<	25
Industrial-Organizational psychologists .....	380	0.1	36
Market research analysts .....	8,920	1.3	12
Political scientists .....	650	0.1	36
Sociologists .....	980	0.2	12
Survey researchers .....	10,760	1.6	9
Urban and regional planners .....	70	<	21

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Research and testing services (SIC 8730) -- continued:			
Engineers .....	36,840	5.5	(nc)
Aeronautical .....	2,210	0.3	17
Civil .....	1,720	0.3	12
Computer .....	2,040	0.3	13
Electrical/electronics .....	9,600	1.4	(nc)
Electrical .....	5,640	0.8	10
Electronics .....	3,960	0.6	10
Industrial .....	2,700	0.4	12
Mechanical .....	5,760	0.9	8
Sales .....	890	0.1	15
Other engineers .....	11,920	1.8	(nc)
Agricultural .....	300	<	39
Biomedical .....	1,030	0.2	29
Chemical .....	2,750	0.4	19
Environmental .....	2,030	0.3	12
Marine .....	30	<	38
Metallurgical/metallurgists .....	1,490	0.2	16
Mining and geological .....	130	<	41
Nuclear .....	2,370	0.4	20
Petroleum .....	140	<	42
Safety .....	1,650	0.3	15
Technicians .....	65,300	9.7	(nc)
Computer, numerical tool, and process control programmers .....	6,590	1.0	(nc)
Computer programmers .....	6,590	1.0	8
Drafters .....	1,250	0.2	(nc)
Architectural and civil drafters .....	270	<	13
Electrical and electronics drafters .....	300	<	11
Mechanical drafters .....	680	0.1	10
Engineering technicians .....	17,200	2.6	(nc)
Aerospace engineering and operations technicians .....	600	0.1	17
Civil engineering technicians .....	2,030	0.3	14
Electronical/electronics engineering technicians .....	6,210	0.9	9
Electro-mechanical technicians .....	1,820	0.3	13
Environmental engineering technicians .....	1,960	0.3	11
Industrial engineering technicians .....	820	0.1	24
Mechanical engineering technicians .....	3,690	0.6	10
All other engineering technicians .....	70	<	(nc)
Audio and video equipment technicians .....	70	<	18
Mathematical technicians .....	170	<	28

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Research and testing services (SIC 8730) -- continued:			
Physical and life science technicians .....	39,350	5.9	(nc)
Agricultural and food science technicians .....	3,420	0.5	21
Biological technicians .....	16,770	2.5	6
Chemical technicians, except health .....	13,740	2.1	12
Environmental science and protection technicians, including health .....	3,820	0.6	13
Forensic science technicians .....	100	<	37
Geological and petroleum technicians .....	890	0.1	19
Nuclear technicians .....	610	0.1	19
Surveying, cartographic, photogrammetric, and mapping technicians .....	740	0.1	(nc)
Surveying and mapping technicians .....	520	0.1	26
Surveyors .....	220	<	40
Management and public relations (SIC 8740)			
Scientific and technical personnel.....	152,970	13.1	(nc)
Managers of scientific and technical personnel .....	14,890	1.3	(nc)
Computer and information systems managers .....	7,800	0.7	5
Engineering managers .....	5,600	0.5	11
Natural sciences managers .....	1,490	0.1	30
Scientists .....	76,370	6.5	(nc)
Computer scientists .....	39,560	3.4	(nc)
Computer and information scientists, research .....	900	0.1	17
Computer software, applications .....	8,660	0.7	7
Computer software, systems .....	5,150	0.4	7
Computer systems analysts .....	10,620	0.9	12
Network and computer systems administrators .....	6,390	0.5	13
Network systems/data communications analysts .....	7,840	0.7	15
Life scientists .....	690	0.1	(nc)
Agricultural scientists .....	600	0.1	21
Conservation scientists .....	90	<	38
Mathematical scientists .....	6,280	0.5	(nc)
Actuaries .....	700	0.1	20
Operations and systems researchers and analysts .....	3,940	0.3	21
Statisticians .....	1,640	0.1	41
Physical scientists .....	14,240	1.2	(nc)
Atmospheric and space scientists .....	190	<	23
Chemists .....	1,480	0.1	26
Environmental scientists and specialists, including health .....	8,390	0.7	8
Geoscientists, except hydrologists and geographers .....	2,750	0.2	18
Hydrologists .....	1,350	0.1	14
Physicists .....	80	<	18

See explanatory information and SOURCE at end of table.



Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Management and public relations (SIC 8740) -- continued:			
Social scientists .....	15,600	1.4	(nc)
Anthropologists and archeologists .....	470	<	23
Clinical, counseling, and school psychologists .....	210	<	24
Economists .....	1,210	0.1	18
Geographers .....	100	<	29
Historians .....	80	<	35
Industrial-Organizational psychologists .....	300	<	41
Market research analysts .....	9,490	0.8	18
Political scientists .....	530	0.1	14
Survey researchers .....	1,730	0.2	36
Urban and regional planners .....	1,480	0.1	17
Engineers .....			
Aeronautical .....	690	0.1	31
Civil .....	8,580	0.7	21
Electrical/electronics .....	3,810	0.3	(nc)
Electrical .....	1,900	0.2	16
Electronics .....	1,910	0.2	16
Industrial .....	1,620	0.1	21
Mechanical .....	3,110	0.3	20
Sales .....	1,240	0.1	16
Other engineers .....	8,490	0.7	(nc)
Agricultural .....	220	<	30
Chemical .....	1,100	0.1	40
Environmental .....	5,000	0.4	7
Mining and geological .....	170	<	32
Safety .....	2,000	0.2	28
Technicians .....			
Computer, numerical tool, and process control programmers .....	14,620	1.3	(nc)
Computer programmers .....	14,620	1.3	16
Drafters .....	4,680	0.4	(nc)
Architectural and civil drafters .....	3,220	0.3	36
Electrical and electronics drafters .....	380	<	36
Mechanical drafters .....	1,080	0.1	17
Engineering technicians .....	8,040	0.7	(nc)
Aerospace engineering and operations technicians .....	190	<	24
Civil engineering technicians .....	2,100	0.2	19
Electrical/electronics engineering technicians .....	2,520	0.2	15
Environmental engineering technicians .....	1,560	0.1	17
Industrial engineering technicians .....	330	<	33
Mechanical engineering technicians .....	990	0.1	20
All other engineering technicians .....	350	<	(nc)
Audio and video equipment technicians .....	220	<	43
Transportation inspectors .....	130	<	27

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Management and public relations (SIC 8740) -- continued:			
Mathematical technicians .....	100	<	21
Physical and life science technicians .....	5,190	0.5	(nc)
Agricultural and food science technicians .....	650	0.1	37
Biological technicians .....	520	<	32
Chemical technicians, except health .....	670	0.1	32
Environmental science and protection technicians, including health .....	2,810	0.2	10
Geological and petroleum technicians .....	430	<	24
Nuclear technicians .....	110	<	4
Surveying, cartographic, photogrammetric, and mapping technicians .....	1,540	0.1	(nc)
Cartographers and photogrammetrists .....	370	<	26
Surveying and mapping technicians .....	660	0.1	16
Surveyors .....	510	<	30
Services, n.e.c. (SIC 8990)			
Scientific and technical personnel.....	11,110	22.0	(nc)
Managers of scientific and technical personnel .....	550	1.1	(nc)
Computer and information systems managers .....	260	0.5	11
Engineering managers .....	140	0.3	11
Natural sciences managers .....	150	0.3	17
Scientists .....	7,360	14.6	(nc)
Computer scientists .....	1,030	2.1	(nc)
Computer and information scientists, research .....	160	0.3	29
Computer software, applications .....	170	0.3	12
Computer software, systems .....	200	0.4	31
Computer systems analysts .....	210	0.4	4
Network and computer systems administrators .....	190	0.4	8
Network systems/data communications analysts .....	100	0.2	16
Life scientists .....	120	0.2	(nc)
Zoologists and wildlife biologists .....	120	0.2	21
Mathematical scientists .....	2,130	4.2	(nc)
Actuaries .....	1,760	3.5	12
Mathematicians .....	110	0.2	36
Operations and systems researchers and analysts .....	100	0.2	43
Statisticians .....	160	0.3	38
Physical scientists .....	3,510	7.0	(nc)
Atmospheric and space scientists .....	780	1.5	10
Chemists .....	70	0.1	16
Environmental scientists and specialists, including health .....	1,180	2.3	25
Geoscientists, except hydrologists and geographers .....	1,140	2.3	11
Hydrologists .....	250	0.5	10
Physicists .....	90	0.2	15
Social scientists .....	570	1.1	(nc)
Anthropologists and archeologists .....	310	0.6	30
Clinical, counseling, and school psychologists .....	30	0.1	36
Industrial-Organizational psychologists .....	110	0.2	42
Market research analysts .....	120	0.2	22

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Services, n.e.c. (SIC 8990) -- continued:			
Engineers .....	1,450	2.9	(nc)
Civil .....	370	0.7	14
Mechanical .....	60	0.1	22
Sales .....	150	0.3	7
Other engineers .....	870	1.7	(nc)
Chemical .....	80	0.2	31
Environmental .....	600	1.2	18
Nuclear .....	100	0.2	36
Petroleum .....	40	0.1	28
Safety .....	50	0.1	37
Technicians .....	1,750	3.5	(nc)
Computer, numerical tool, and process control programmers .....	380	0.8	(nc)
Computer programmers .....	380	0.8	10
Drafters .....	80	0.2	(nc)
Architectural and civil drafters .....	80	0.2	13
Engineering technicians .....	520	1.0	(nc)
Civil engineering technicians .....	80	0.2	9
Electrical/electronics engineering technicians .....	120	0.2	17
Environmental engineering technicians .....	320	0.6	18
Physical and life science technicians .....	690	1.4	(nc)
Chemical technicians, except health .....	40	0.1	30
Environmental science and protection technicians, including health .....	270	0.5	11
Geological and petroleum technicians .....	260	0.5	14
Nuclear technicians .....	120	0.2	20
Surveying, cartographic, photogrammetric, and mapping technicians .....	80	0.2	(nc)
Cartographers and photogrammetrists .....	30	0.1	29
Surveying and mapping technicians .....	50	0.1	7
Federal government (SIC 9010)			
Scientific and technical personnel.....	259,970	10.0	(nc)
Managers of scientific and technical personnel .....	31,570	1.2	(nc)
Computer and information systems managers .....	5,620	0.2	<
Engineering managers .....	13,540	0.5	<
Natural sciences managers .....	12,410	0.5	<
Scientists .....	113,760	4.4	(nc)
Computer scientists .....	51,440	2.0	(nc)
Computer and information scientists, research .....	3,870	0.2	<
Computer systems analysts .....	46,910	1.8	<
Network and computer systems administrators .....	80	<	<
Network systems/data communications analysts .....	580	<	<

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Federal government (SIC 9010) -- continued:			
Life scientists .....	19,280	0.7	(nc)
Agricultural scientists .....	2,460	0.1	<
Biochemists and biophysicists .....	340	<	<
Conservation scientists .....	6,790	0.3	<
Foresters .....	2,650	0.1	<
Medical scientists, except epidemiologists .....	1,200	0.1	<
Microbiologists .....	2,050	0.1	<
Zoologists and wildlife biologists .....	3,790	0.2	<
Mathematical scientists .....	9,820	0.4	(nc)
Actuaries .....	180	<	<
Mathematicians .....	1,170	0.1	<
Operations and systems researchers and analysts .....	5,110	0.2	<
Statisticians .....	3,360	0.1	<
Physical scientists .....	22,490	0.9	(nc)
Astronomers .....	430	<	<
Atmospheric and space scientists .....	2,650	0.1	<
Chemists .....	5,590	0.2	<
Environmental scientists and specialists, including health .....	5,250	0.2	<
Geoscientists, except hydrologists and geographers .....	2,710	0.1	<
Hydrologists .....	2,280	0.1	<
Materials scientists .....	110	<	<
Physicists .....	3,470	0.1	<
Social scientists .....	10,730	0.4	(nc)
Anthropologists and archeologists .....	1,130	<	<
Economists .....	3,940	0.2	<
Geographers .....	440	<	<
Historians .....	530	<	<
Market research analysts .....	1,530	0.1	<
Political scientists .....	2,640	0.1	<
Sociologists .....	60	<	<
Urban and regional planners .....	460	<	<
Engineers .....	64,670	2.5	(nc)
Aeronautical .....	7,020	0.3	<
Civil .....	8,950	0.3	<
Computer .....	3,070	0.1	<
Electrical/electronics .....	22,030	0.9	(nc)
Electrical .....	3,380	0.1	<
Electronics .....	18,650	0.7	<
Industrial .....	2,550	0.1	<
Mechanical .....	8,890	0.3	<

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Federal government (SIC 9010) -- continued:			
Other engineers .....	12,160	0.5	(nc)
Agricultural .....	320	<	<
Biomedical .....	240	<	<
Chemical .....	1,010	<	<
Environmental .....	4,290	0.2	<
Marine .....	760	<	<
Metallurgical/metallurgists .....	1,090	<	<
Mining and geological .....	200	<	<
Nuclear .....	1,890	0.1	<
Petroleum .....	280	<	<
Safety .....	2,080	0.1	<
Technicians .....	49,970	1.9	(nc)
Computer, numerical tool, and process control programmers .....	70	<	(nc)
Computer programmers .....	70	<	<
Drafters .....	660	<	(nc)
Architectural and civil drafters .....	660	<	<
Engineering technicians .....	28,140	1.1	(nc)
Electrical/electronics engineering technicians .....	16,300	0.6	<
Electro-mechanical technicians .....	6,260	0.2	<
Industrial engineering technicians .....	1,110	<	<
Mechanical engineering technicians .....	120	<	<
All other engineering technicians .....	4,350	0.2	(nc)
Broadcast technicians .....	120	<	<
Transportation inspectors .....	4,230	0.2	<
Mathematical technicians .....	60	<	<
Physical and life science technicians .....	18,180	0.7	(nc)
Biological technicians .....	7,070	0.3	<
Chemical technicians, except health .....	120	<	<
Environmental science and protection technicians, including health .....	350	<	<
Forensic science technicians .....	70	<	<
Forest and conservation technicians .....	10,570	0.4	<
Surveying, cartographic, photogrammetric, and mapping technicians .....	2,860	0.1	(nc)
Cartographers and photogrammetrists .....	940	<	<
Surveying and mapping technicians .....	1,530	0.1	<
Surveyors .....	390	<	<
State government (SIC 9020)			
Scientific and technical personnel.....	199,410	8.7	(nc)
Managers of scientific and technical personnel .....	11,180	0.5	(nc)
Computer and information systems managers .....	5,290	0.2	<
Engineering managers .....	2,400	0.1	<
Natural sciences managers .....	3,490	0.2	<

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
State government (SIC 9020) -- continued:			
Scientists .....	84,750	3.7	(nc)
Computer scientists .....	31,400	1.4	(nc)
Computer and information scientists, research .....	50	<	<
Computer software, applications .....	4,680	0.2	<
Computer software, systems .....	1,440	0.1	<
Computer systems analysts .....	16,790	0.7	<
Network and computer systems administrators .....	3,560	0.2	<
Network systems/data communications analysts .....	4,880	0.2	<
Life scientists .....	14,310	0.6	(nc)
Agricultural scientists .....	670	<	<
Biochemists and biophysicists .....	260	<	<
Conservation scientists .....	2,750	0.1	<
Epidemiologists .....	840	<	<
Foresters .....	3,140	0.1	<
Medical scientists, except epidemiologists .....	430	<	<
Microbiologists .....	1,360	0.1	<
Zoologists and wildlife biologists .....	4,860	0.2	<
Mathematical scientists .....	4,870	0.2	(nc)
Actuaries .....	350	<	<
Operations and systems researchers and analysts .....	2,840	0.1	<
Statisticians .....	1,680	0.1	<
Physical scientists .....	22,120	1.0	(nc)
Atmospheric and space scientists .....	140	<	<
Chemists .....	2,430	0.1	<
Environmental scientists and specialists, including health .....	15,430	0.7	<
Geoscientists, except hydrologists and geographers .....	2,720	0.1	<
Hydrologists .....	1,090	0.1	<
Physicists .....	310	<	<
Social scientists .....	12,050	0.5	(nc)
Anthropologists and archeologists .....	390	<	<
Clinical, counseling, and school psychologists .....	4,600	0.2	<
Economists .....	2,100	0.1	<
Historians .....	400	<	<
Market research analysts .....	620	<	<
Sociologists .....	150	<	<
Survey researchers .....	740	<	<
Urban and regional planners .....	3,050	0.1	<

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
State government (SIC 9020) -- continued:			
Engineers .....	41,410	1.8	(nc)
Civil .....	30,650	1.3	<
Electrical/electronics .....	1,280	0.1	(nc)
Electrical .....	950	<	<
Electronics .....	330	<	<
Industrial .....	90	<	<
Mechanical .....	530	<	<
Other engineers .....	8,860	0.4	(nc)
Environmental .....	6,560	0.3	<
Marine .....	90	<	<
Metallurgical/metallurgists .....	310	<	<
Mining and geological .....	340	<	<
Petroleum .....	80	<	<
Safety .....	1,480	0.1	<
Technicians .....	62,070	2.7	(nc)
Computer, numerical tool, and process control programmers .....	8,780	0.4	(nc)
Computer programmers .....	8,780	0.4	<
Drafters .....	1,570	0.1	(nc)
Architectural and civil drafters .....	1,570	0.1	<
Engineering technicians .....	31,830	1.4	(nc)
Civil engineering technicians .....	24,310	1.1	<
Electrical/electronics engineering technicians .....	1,200	0.1	<
Electro-mechanical technicians .....	70	<	<
Environmental engineering technicians .....	740	<	<
Mechanical engineering technicians .....	40	<	<
All other engineering technicians .....	5,470	0.2	(nc)
Audio and video equipment technicians .....	360	<	<
Broadcast technicians .....	570	<	<
Traffic technicians .....	1,580	0.1	<
Transportation inspectors .....	2,960	0.1	<
Mathematical technicians .....	200	<	<
Physical and life science technicians .....	15,250	0.7	(nc)
Agricultural and food science technicians .....	1,760	0.1	<
Biological technicians .....	2,920	0.1	<
Chemical technicians, except health .....	400	<	<
Environmental science and protection technicians, including health .....	3,620	0.2	<
Forensic science technicians .....	2,930	0.1	<
Forest and conservation technicians .....	3,290	0.1	<
Geological and petroleum technicians .....	330	<	<
Surveying, cartographic, photogrammetric, and mapping technicians .....	4,440	0.2	(nc)
Cartographers and photogrammetrists .....	420	<	<
Surveying and mapping technicians .....	2,250	0.1	<
Surveyors .....	1,770	0.1	<

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Local government (SIC 9030)			
Scientific and technical personnel.....	187,520	3.6	(nc)
Managers of scientific and technical personnel .....	14,420	0.3	(nc)
Computer and information systems managers .....	6,630	0.1	2
Engineering managers .....	6,630	0.1	3
Natural sciences managers .....	1,160	<	8
Scientists .....	76,010	1.5	(nc)
Computer scientists .....	27,720	0.5	(nc)
Computer and information scientists, research .....	60	<	31
Computer software, applications .....	3,270	0.1	5
Computer software, systems .....	440	<	9
Computer systems analysts .....	13,290	0.3	6
Network and computer systems administrators .....	6,250	0.1	3
Network systems/data communications analysts .....	4,410	0.1	3
Life scientists .....	5,440	0.1	(nc)
Agricultural scientists .....	840	<	7
Biochemists and biophysicists .....	70	<	19
Conservation scientists .....	1,920	<	10
Epidemiologists .....	580	<	6
Foresters .....	1,090	<	7
Medical scientists, except epidemiologists .....	160	<	14
Microbiologists .....	520	<	9
Zoologists and wildlife biologists .....	260	<	9
Mathematical scientists .....	860	<	(nc)
Actuaries .....	90	<	9
Operations and systems researchers and analysts .....	410	<	10
Statisticians .....	360	<	24
Physical scientists .....	12,010	0.2	(nc)
Chemists .....	1,870	<	5
Environmental scientists and specialists, including health .....	8,380	0.2	5
Geoscientists, except hydrologists and geographers .....	1,300	<	26
Hydrologists .....	400	<	15
Physicists .....	60	<	8
Social scientists .....	29,980	0.6	(nc)
Clinical, counseling, and school psychologists .....	4,660	0.1	6
Economists .....	810	<	6
Historians .....	230	<	11
Market research analysts .....	1,060	<	8
Sociologists .....	180	<	21
Survey researchers .....	190	<	14
Urban and regional planners .....	22,850	0.4	4

See explanatory information and SOURCE at end of table.



Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Local government (SIC 9030) -- continued:			
Engineers .....	34,380	0.7	(nc)
Aeronautical .....	30	<	23
Civil .....	24,440	0.5	3
Computer .....	60	<	11
Electrical/electronics .....	3,910	0.1	(nc)
Electrical .....	3,410	0.1	6
Electronics .....	500	<	14
Industrial .....	160	<	11
Mechanical .....	1,050	<	6
Other engineers .....	4,730	0.1	(nc)
Biomedical .....	50	<	34
Chemical .....	130	<	9
Environmental .....	3,110	0.1	11
Safety .....	1,440	<	7
Technicians .....	62,710	1.2	(nc)
Computer, numerical tool, and process control programmers .....	9,670	0.2	(nc)
Computer programmers .....	9,670	0.2	3
Drafters .....	4,120	0.1	(nc)
Architectural and civil drafters .....	3,560	0.1	4
Electrical and electronics drafters .....	450	<	9
Mechanical drafters .....	110	<	26
Engineering technicians .....	26,630	0.5	(nc)
Civil engineering technicians .....	14,880	0.3	3
Electrical/electronics engineering technicians .....	4,370	0.1	5
Electro-mechanical technicians .....	360	<	30
Environmental engineering technicians .....	2,270	<	9
Industrial engineering technicians .....	220	<	13
Mechanical engineering technicians .....	250	<	20
All other engineering technicians .....	4,280	0.1	(nc)
Audio and video equipment technicians .....	940	<	10
Broadcast technicians .....	320	<	9
Traffic technicians .....	3,020	0.1	3
Mathematical technicians .....	40	<	38
Physical and life science technicians .....	10,910	0.2	(nc)
Agricultural and food science technicians .....	50	<	26
Biological technicians .....	230	<	13
Chemical technicians, except health .....	650	<	13
Environmental science and protection technicians, including health .....	5,430	0.1	5
Forensic science technicians .....	3,330	0.1	5
Forest and conservation technicians .....	1,100	<	17
Geological and petroleum technicians .....	30	<	13
Nuclear technicians .....	90	<	20
Surveying, cartographic, photogrammetric, and mapping technicians .....	11,340	0.2	(nc)
Cartographers and photogrammetrists .....	1,250	<	8
Surveying and mapping technicians .....	7,020	0.1	4
Surveyors .....	3,070	0.1	3

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Not allocated by industry <sup>3</sup>			
Scientific and technical personnel.....	181,680	(nc)	(nc)
Managers of scientific and technical personnel .....	6,900	(nc)	(nc)
Computer and information systems managers .....	2,100	(nc)	(nc)
Engineering managers .....	2,510	(nc)	(nc)
Natural sciences managers .....	2,290	(nc)	(nc)
Scientists .....	63,270	(nc)	(nc)
Computer scientists .....	24,280	(nc)	(nc)
Computer and information scientists, research .....	1,840	(nc)	(nc)
Computer software, applications .....	6,740	(nc)	(nc)
Computer software, systems .....	3,560	(nc)	(nc)
Computer systems analysts .....	5,120	(nc)	(nc)
Network and computer systems administrators .....	2,590	(nc)	(nc)
Network systems/data communications analysts .....	4,430	(nc)	(nc)
Life scientists .....	8,770	(nc)	(nc)
Agricultural scientists .....	450	(nc)	(nc)
Biochemists and biophysicists .....	990	(nc)	(nc)
Conservation scientists .....	810	(nc)	(nc)
Epidemiologists .....	1,520	(nc)	(nc)
Foresters .....	840	(nc)	(nc)
Medical scientists, except epidemiologists .....	1,560	(nc)	(nc)
Microbiologists .....	1,660	(nc)	(nc)
Zoologists and wildlife biologists .....	940	(nc)	(nc)
Mathematical scientists .....	5,650	(nc)	(nc)
Actuaries .....	780	(nc)	(nc)
Mathematicians .....	470	(nc)	(nc)
Operations and systems researchers and analysts .....	2,850	(nc)	(nc)
Statisticians .....	1,550	(nc)	(nc)
Physical scientists .....	11,400	(nc)	(nc)
Astronomers .....	60	(nc)	(nc)
Atmospheric and space scientists .....	390	(nc)	(nc)
Chemists .....	3,820	(nc)	(nc)
Environmental scientists and specialists, including health .....	920	(nc)	(nc)
Geoscientists, except hydrologists and geographers .....	2,410	(nc)	(nc)
Hydrologists .....	340	(nc)	(nc)
Materials scientists .....	2,510	(nc)	(nc)
Physicists .....	950	(nc)	(nc)

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Not allocated by industry <sup>3</sup> -- continued:			
Social scientists .....	13,170	(nc)	(nc)
Anthropologists and archeologists .....	50	(nc)	(nc)
Clinical, counseling, and school psychologists .....	600	(nc)	(nc)
Economists .....	890	(nc)	(nc)
Geographers .....	140	(nc)	(nc)
Historians .....	490	(nc)	(nc)
Industrial-Organizational psychologists .....	380	(nc)	(nc)
Market research analysts .....	5,340	(nc)	(nc)
Political scientists .....	350	(nc)	(nc)
Sociologists .....	400	(nc)	(nc)
Survey researchers .....	4,120	(nc)	(nc)
Urban and regional planners .....	410	(nc)	(nc)
Engineers .....	42,050	(nc)	(nc)
Aeronautical .....	810	(nc)	(nc)
Civil .....	2,850	(nc)	(nc)
Computer .....	3,350	(nc)	(nc)
Electrical/electronics .....	6,910	(nc)	(nc)
Electrical .....	4,240	(nc)	(nc)
Electronics .....	2,670	(nc)	(nc)
Industrial .....	5,070	(nc)	(nc)
Mechanical .....	5,470	(nc)	(nc)
Sales .....	3,670	(nc)	(nc)
Other engineers .....	13,920	(nc)	(nc)
Agricultural .....	1,080	(nc)	(nc)
Biomedical .....	600	(nc)	(nc)
Chemical .....	1,860	(nc)	(nc)
Environmental .....	2,070	(nc)	(nc)
Marine .....	740	(nc)	(nc)
Metallurgical/metallurgists .....	1,660	(nc)	(nc)
Mining and geological .....	1,000	(nc)	(nc)
Nuclear .....	500	(nc)	(nc)
Petroleum .....	2,080	(nc)	(nc)
Safety .....	2,330	(nc)	(nc)
Technicians .....	69,460	(nc)	(nc)
Computer, numerical tool, and process control programmers .....	6,490	(nc)	(nc)
Computer programmers .....	5,140	(nc)	(nc)
Numerical tool and process control programmers .....	1,350	(nc)	(nc)
Drafters .....	7,840	(nc)	(nc)
Architectural and civil drafters .....	1,590	(nc)	(nc)
Electrical and electronics drafters .....	2,240	(nc)	(nc)
Mechanical drafters .....	4,010	(nc)	(nc)

See explanatory information and SOURCE at end of table.

Table 10. Employed scientists, engineers, technicians (SETs), and SET managers,  
in SICs 70-89 (services), SIC 90 (government), and not allocated by industry, and the relative standard error: 2001  
[Filled positions]

Industry and SET occupation	Filled positions	SET intensity <sup>1</sup>	Relative standard error <sup>2</sup>
Not allocated by industry <sup>3</sup> -- continued:			
Engineering technicians .....	35,420	(nc)	(nc)
Aerospace engineering and operations technicians .....	4,250	(nc)	(nc)
Civil engineering technicians .....	2,770	(nc)	(nc)
Electrical/electronics engineering technicians .....	2,490	(nc)	(nc)
Electro-mechanical technicians .....	2,440	(nc)	(nc)
Environmental engineering technicians .....	1,240	(nc)	(nc)
Industrial engineering technicians .....	3,250	(nc)	(nc)
Mechanical engineering technicians .....	7,980	(nc)	(nc)
All other engineering technicians .....	11,000	(nc)	(nc)
Audio and video equipment technicians .....	3,400	(nc)	(nc)
Broadcast technicians .....	1,060	(nc)	(nc)
Traffic technicians .....	360	(nc)	(nc)
Transportation inspectors .....	6,180	(nc)	(nc)
Mathematical technicians .....	560	(nc)	(nc)
Physical and life science technicians .....	15,300	(nc)	(nc)
Agricultural and food science technicians .....	900	(nc)	(nc)
Biological technicians .....	680	(nc)	(nc)
Chemical technicians, except health .....	5,580	(nc)	(nc)
Environmental science and protection technicians, including health .....	2,040	(nc)	(nc)
Forensic science technicians .....	300	(nc)	(nc)
Forest and conservation technicians .....	650	(nc)	(nc)
Geological and petroleum technicians .....	3,800	(nc)	(nc)
Nuclear technicians .....	1,350	(nc)	(nc)
Surveying, cartographic, photogrammetric, and mapping technicians .....	3,850	(nc)	(nc)
Cartographers and photogrammetrists .....	710	(nc)	(nc)
Surveying and mapping technicians .....	2,130	(nc)	(nc)
Surveyors .....	1,010	(nc)	(nc)

<sup>1</sup> SET intensity = the ratio of SET employment (including SET managers) in a given SIC to total employment in that SIC, expressed in percentage terms.

<sup>2</sup> Relative standard error of the estimate of filled positions, expressed as a percentage.

<sup>3</sup> Includes SET and SET managers not reported in a specific industry.

KEY:       nc       = Not computed  
           <       = The estimated actual value is less than 0.05 for percentages when used to characterize SET intensity, and less than 0.5 for percentages when used to characterize relative standard error.  
           n.e.c.   = Not elsewhere classified.  
           SIC     = Standard Industrial Classification. See Technical Notes for explanation.

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

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

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		\$	RSE	\$	RSE	\$	RSE	\$	RSE
		Total.....		41.28	1	30.46	1	31.56	1
Agriculture, forestry, and fishing									
Agricultural services .....	07	<	<	21.18	3	27.36	6	15.11	3
Crop services .....	072	<	<	26.32	3	32.18	9	13.74	7
Animal services, except veterinary .....	075	<	<	19.78	6	<	<	12.99	2
Farm labor and management services .....	076	<	<	<	<	<	<	<	<
Landscape and horticultural services .....	078	<	<	14.63	5	25.73	4	17.75	2
Mining									
Metal mining .....	10	42.76	3	28.93	2	30.87	4	20.13	2
Iron ores .....	101	<	<	<	<	42.34	29	<	<
Copper ores .....	102	<	<	24.25	3	30.53	4	20.11	4
Gold and silver ores .....	104	<	<	31.52	2	32.07	3	20.53	2
Metal mining services .....	108	<	<	31.87	6	<	<	<	<
Misc. metal ores, n.e.c. ....	109	<	<	<	<	<	<	<	<
Coal mining .....	12	41.22	3	31.00	4	30.13	4	21.85	4
Bituminous coal and lignite mining .....	122	40.98	2	31.00	4	30.25	4	22.28	4
Oil and gas extraction .....	13	52.29	2	38.71	2	39.56	2	22.47	4
Crude petroleum and natural gas .....	131	56.04	3	41.11	2	41.61	2	22.04	5
Natural gas liquids .....	132	<	<	<	<	<	<	27.51	6
Oil and gas field services .....	138	<	<	30.73	7	33.05	5	20.55	6
Nonmetallic minerals, except fuels .....	14	39.80	3	26.38	4	29.09	3	19.21	3
Crushed and broken stone .....	142	35.40	4	<	<	27.10	4	20.45	4
Sand and gravel .....	144	35.67	7	<	<	25.62	4	15.55	3
Clay, ceramic, and refractory minerals .....	145	<	<	<	<	<	<	16.23	4
Chemical and fertilizer minerals .....	147	<	<	<	<	33.30	3	17.49	3
Misc. nonmetallic minerals .....	149	<	<	<	<	<	<	18.77	3
Construction									
General building contractors .....	15	30.94	7	24.90	3	28.71	3	19.70	3
Residential building construction .....	152	33.69	3	24.84	2	29.58	5	18.62	4
Operative builders .....	153	48.66	5	<	<	28.18	5	18.46	5
Nonresidential building excluding building .....	154	29.99	8	24.88	5	28.71	3	20.75	4
Heavy construction, excluding building .....	16	42.38	4	27.37	6	32.40	4	20.09	5
Highway and street construction .....	161	36.14	3	24.65	2	27.49	2	19.23	3
Heavy construction, except highway .....	162	44.13	3	28.13	9	33.38	3	21.12	5
Special trade contractors .....	17	35.43	3	26.43	4	29.28	4	20.35	3
Plumbing, heating, air conditioning .....	171	33.31	4	26.38	2	28.98	3	21.27	3
Painting and paper hanging .....	172	<	<	<	<	<	<	<	<
Electrical work .....	173	38.22	4	26.22	4	29.56	6	19.93	4
Masonry, stonework, and plastering .....	174	31.95	4	<	<	28.56	5	20.59	6
Carpentry and floor work .....	175	<	<	<	<	25.28	7	19.14	3
Roofing, siding, and sheet-metal work .....	176	<	<	27.84	3	25.45	4	19.77	4
Concrete work .....	177	33.84	5	<	<	26.44	3	19.90	7
Misc. special trade contractors .....	179	40.04	5	23.99	6	29.58	5	19.53	3

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		\$	RSE	\$	RSE	\$	RSE	\$	RSE
		Total manufacturing							
Food and kindred products .....	20	39.42	2	27.75	2	29.51	2	18.04	3
Meat products .....	201	34.21	2	21.05	3	27.19	3	16.09	5
Dairy products .....	202	36.72	5	23.43	4	27.42	3	17.17	2
Preserved fruits & vegetables .....	203	40.47	4	28.94	4	28.89	4	18.71	3
Grain mill products .....	204	41.22	3	27.35	5	29.99	2	18.67	3
Bakery products .....	205	36.02	4	27.73	5	25.99	4	20.79	4
Sugar and confectionery products .....	206	41.92	3	25.96	4	29.68	3	17.89	4
Fats and oils .....	207	39.46	4	24.15	5	30.21	4	17.48	6
Beverages .....	208	40.69	6	30.52	2	31.28	3	19.89	7
Misc. food and kindred products .....	209	39.69	3	26.26	6	28.25	4	16.97	5
Tobacco products .....	21	40.86	10	30.64	3	<	<	23.32	5
Cigarettes .....	211	<	<	30.69	4	<	<	23.03	5
Chewing and smoking tobacco .....	213	<	<	<	<	<	<	<	<
Textile mill products .....	22	33.55	2	26.14	2	27.08	2	18.67	2
Broadwoven fabric mills, cotton .....	221	33.77	4	<	<	25.76	2	18.73	4
Broadwoven fabric mills, manmade .....	222	35.53	2	26.81	3	29.66	4	20.61	4
Narrow fabric mills .....	224	<	<	<	<	<	<	<	<
Knitting mills .....	225	30.82	8	23.43	6	24.96	3	19.38	4
Textile finishing, except wool .....	226	35.49	3	25.87	5	26.83	3	16.14	3
Carpets and rugs .....	227	34.13	4	25.20	4	25.18	4	22.33	2
Yarn and thread mills .....	228	31.97	2	<	<	23.41	5	18.12	7
Miscellaneous textile goods .....	229	36.73	2	27.76	3	28.87	2	18.63	4
Apparel and other textile products .....	23	35.76	2	28.00	8	25.91	3	22.87	2
Men's & boys' furnishings .....	232	36.33	3	28.22	15	25.57	3	25.34	4
Women's and misses' outerwear .....	233	42.61	5	29.18	7	21.10	17	27.19	5
Women's and children's undergarments .....	234	<	<	<	<	<	<	<	<
Girls' and children's outerwear .....	236	<	<	<	<	<	<	24.16	5
Miscellaneous apparel and accessories .....	238	33.57	5	<	<	27.28	3	22.84	3
Misc. fabricated textile products .....	239	33.76	3	22.37	2	26.81	4	21.56	3
Lumber and wood products .....	24	34.58	3	24.90	3	25.75	3	18.92	3
Logging .....	241	<	<	21.66	5	<	<	16.95	10
Sawmills and planing mills .....	242	36.80	7	24.45	4	28.88	7	19.58	4
Millwork, plywood & structural members .....	243	35.22	4	24.85	4	26.06	4	19.08	5
Wood containers .....	244	<	<	<	<	<	<	<	<
Wood buildings and mobile homes .....	245	29.90	4	<	<	21.78	6	17.54	4
Miscellaneous wood products .....	249	32.92	4	23.15	3	27.05	4	20.78	4
Furniture and fixtures .....	25	35.16	2	26.36	4	26.77	3	19.44	3
Household furniture .....	251	32.18	3	22.20	3	23.60	2	18.50	4
Office furniture .....	252	36.12	3	26.00	2	26.81	2	20.56	4
Public building & related furniture .....	253	38.85	3	22.54	4	29.22	3	20.28	4
Partitions and fixtures .....	254	33.85	3	24.72	3	25.82	2	18.10	3
Miscellaneous furniture and fixtures .....	259	35.32	5	25.88	4	27.74	4	21.90	4
Paper and allied products .....	26	44.50	6	28.51	2	32.14	4	22.20	3
Pulp mills .....	261	<	<	26.39	2	32.63	4	<	<
Paper mills .....	262	42.62	3	29.24	3	30.92	2	19.38	3
Paperboard mills .....	263	42.46	3	27.54	3	31.57	3	21.23	7
Paperboard containers and boxes .....	265	38.69	3	25.69	4	27.21	3	21.83	3
Misc. converted paper products .....	267	46.56	9	27.93	3	31.01	3	21.13	2

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		\$	RSE	\$	RSE	\$	RSE	\$	RSE
Printing and publishing .....	27	38.37	1	27.63	2	28.17	2	24.79	2
Newspapers .....	271	35.12	2	26.37	4	27.32	4	23.72	3
Periodicals .....	272	43.28	2	28.44	3	30.52	5	27.28	2
Books .....	273	43.71	4	26.34	3	27.55	4	28.11	3
Miscellaneous publishing .....	274	39.45	3	29.14	3	30.17	4	24.53	2
Commercial printing .....	275	35.10	2	25.97	3	27.71	2	22.96	3
Manifold business forms .....	276	31.03	3	25.85	4	<	<	23.80	3
Greeting cards .....	277	34.46	6	29.32	3	<	<	<	<
Blankbooks and bookbinding .....	278	42.33	10	28.72	4	27.70	5	20.40	4
Printing trade services .....	279	38.48	4	27.06	5	<	<	28.07	5
Chemicals and allied products .....	28	47.29	3	30.02	2	32.46	1	20.45	2
Industrial inorganic chemicals .....	281	42.53	2	28.45	2	32.51	3	20.43	4
Plastics materials and synthetics .....	282	44.60	2	31.55	3	32.89	2	21.55	2
Drugs .....	283	50.09	4	30.37	3	31.94	2	19.53	3
Soap, cleaners, and toilet goods .....	284	47.60	4	27.78	3	31.44	3	19.48	2
Paints and allied products .....	285	39.49	3	26.19	4	30.46	3	18.68	2
Industrial organic chemicals .....	286	44.13	2	31.59	3	33.88	2	22.21	4
Agricultural chemicals .....	287	42.25	4	29.84	3	30.67	3	20.31	4
Miscellaneous chemical products .....	289	41.67	3	28.72	3	31.55	2	20.22	3
Petroleum and coal products .....	29	44.60	3	31.53	4	34.93	2	23.24	3
Petroleum refining .....	291	45.45	3	32.09	4	35.42	2	24.10	3
Asphalt paving and roofing materials .....	295	33.12	6	24.98	5	30.64	3	15.69	2
Misc. petroleum and coal products .....	299	44.97	7	26.79	4	33.50	4	19.05	3
Rubber and misc. plastics products .....	30	36.73	1	27.07	3	27.77	1	19.21	2
Tires and inner tubes .....	301	37.92	3	27.01	5	28.29	3	21.65	3
Hose & belting & gaskets & packing .....	305	38.01	3	27.22	5	27.29	3	17.99	4
Fabricated rubber products, n.e.c. ....	306	36.23	2	25.41	2	27.17	2	18.42	2
Miscellaneous plastics products, n.e.c. ....	308	36.50	1	27.25	3	27.88	2	19.11	3
Leather and leather products .....	31	39.50	4	25.53	4	25.72	3	23.85	4
Footwear, except rubber .....	314	37.19	5	26.80	5	<	<	28.59	4
Luggage .....	316	<	<	<	<	<	<	<	<
Stone, clay and glass products .....	32	37.66	2	26.43	2	28.28	1	19.13	2
Flat glass .....	321	40.98	5	<	<	28.39	4	22.14	4
Glass and glassware, pressed or blown .....	322	41.36	4	28.45	4	30.07	3	21.08	5
Products of purchased glass .....	323	38.50	3	26.38	4	27.38	2	19.91	4
Cement, hydraulic .....	324	37.57	6	23.33	2	29.98	3	19.27	4
Structural clay products .....	325	32.47	4	<	<	26.52	3	14.43	5
Pottery and related products .....	326	37.97	4	<	<	28.05	3	17.98	3
Concrete, gypsum, and plaster products .....	327	35.02	4	26.46	4	26.86	3	18.10	3
Misc. nonmetallic mineral products .....	329	39.51	3	27.44	4	29.09	2	18.95	3
Primary metal industries .....	33	38.29	2	28.38	3	28.78	2	19.77	2
Blast furnace and basic steel products .....	331	37.00	2	27.69	3	28.80	2	20.91	4
Iron and steel foundries .....	332	37.66	2	28.11	4	27.72	3	19.41	4
Primary nonferrous metals .....	333	40.34	4	27.71	5	28.69	4	19.54	4
Secondary nonferrous metals .....	334	<	<	21.56	4	27.37	4	16.54	6
Nonferrous rolling and drawing .....	335	39.82	4	30.18	4	30.13	3	19.57	3
Nonferrous foundries (castings) .....	336	35.85	2	24.49	4	27.09	2	18.22	3
Miscellaneous primary metal products .....	339	37.98	3	28.24	5	27.26	3	17.39	3

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		\$	RSE	\$	RSE	\$	RSE	\$	RSE
Fabricated metal products .....	34	35.63	1	26.63	2	27.90	2	19.28	2
Metal cans and shipping containers .....	341	40.47	2	<	<	31.35	4	20.48	4
Cutlery, hand tools, and hardware .....	342	35.95	2	26.59	3	26.60	2	19.14	2
Plumbing and heating, except electric .....	343	36.33	2	26.25	4	27.74	3	19.02	3
Fabricated structural metal products .....	344	33.29	2	26.51	4	27.46	3	18.56	2
Screw machine products, bolts, etc. ....	345	34.96	4	26.30	3	26.53	2	19.28	3
Metal forgings and stampings .....	346	38.51	2	26.23	2	28.36	3	20.80	3
Metal services, n.e.c. ....	347	33.26	3	20.96	3	26.61	4	17.68	4
Ordnance and accessories, n.e.c. ....	348	39.09	4	27.94	5	29.87	4	22.13	4
Misc. fabricated metal products .....	349	35.78	1	25.85	3	26.61	2	18.84	2
Industrial machinery and equipment .....	35	42.84	1	35.95	2	30.61	2	22.09	2
Engines and turbines .....	351	42.74	5	30.02	3	29.12	4	21.46	4
Farm and garden machinery .....	352	34.89	3	27.44	5	25.74	2	17.40	5
Construction and related machinery .....	353	36.93	1	28.21	2	28.05	1	19.58	2
Metalworking machinery .....	354	36.83	2	27.01	3	26.83	3	20.80	3
Special industry machinery .....	355	41.89	3	32.32	3	29.39	2	20.51	3
General industrial machinery .....	356	37.82	1	28.92	3	28.22	1	19.65	2
Computer and office equipment .....	357	50.97	2	37.44	2	36.49	3	27.84	2
Refrigeration and service machinery .....	358	36.23	1	27.30	2	27.02	2	18.47	2
Industrial machinery, n.e.c. ....	359	34.12	2	25.32	4	27.03	3	19.47	3
Electronic & other electric equipment .....	36	46.04	1	34.71	2	32.84	1	19.47	3
Electric distribution equipment .....	361	40.44	2	32.77	11	28.42	2	18.55	2
Electrical industrial apparatus .....	362	39.28	2	29.17	3	28.52	2	18.59	2
Household appliances .....	363	38.85	4	26.52	6	27.66	4	18.40	2
Electric lighting and wiring equipment .....	364	40.05	2	30.52	6	28.79	2	19.19	3
Household audio and video equipment .....	365	41.71	4	28.53	5	29.84	3	18.34	2
Communication equipment .....	366	47.18	2	35.22	3	33.75	2	20.34	4
Electronic components and accessories .....	367	48.42	2	35.86	3	34.48	2	19.36	3
Misc. electrical equipment & supplies .....	369	40.52	2	31.72	8	29.41	2	18.92	5
Transportation equipment .....	37	44.18	1	31.93	2	32.02	1	23.53	3
Motor vehicles and equipment .....	371	43.31	2	29.63	4	30.34	2	22.57	5
Aircraft and parts .....	372	44.52	2	32.22	2	32.80	2	24.84	2
Ship and boat building and repairing .....	373	39.00	2	25.53	5	25.65	4	18.13	5
Railroad equipment .....	374	40.94	4	27.55	4	30.17	3	21.90	3
Motorcycles, bicycles, and parts .....	375	42.41	8	27.36	7	28.98	4	19.81	3
Guided missiles, space vehicles, parts .....	376	48.70	3	32.78	3	33.55	2	23.88	4
Miscellaneous transportation equipment .....	379	37.56	7	32.71	9	28.37	6	20.23	5
Instruments and related products .....	38	45.53	1	33.32	2	32.81	1	21.10	2
Search and navigation equipment .....	381	46.41	2	34.64	3	34.26	2	21.87	4
Measuring and controlling devices .....	382	45.30	2	33.37	2	31.83	2	21.01	3
Medical instruments and supplies .....	384	44.73	2	30.38	3	31.30	2	20.18	3
Ophthalmic goods .....	385	42.98	4	30.56	6	30.94	4	20.03	6
Photographic equipment and supplies .....	386	45.50	3	36.10	4	32.92	3	21.66	4
Miscellaneous manufacturing industries .....	39	38.31	2	27.92	2	28.05	3	19.62	3
Jewelry, silverware, and plated ware .....	391	41.80	4	24.95	6	29.31	4	26.26	5
Musical instruments .....	393	<	<	<	<	28.38	4	21.80	6
Toys and sporting goods .....	394	38.73	3	28.38	4	28.56	2	21.00	4
Pens, pencils, office, & art supplies .....	395	36.26	4	27.12	3	26.55	3	20.14	5
Costume jewelry and notions .....	396	<	<	<	<	<	<	<	<
Miscellaneous manufactures .....	399	37.78	3	27.66	3	27.74	4	18.95	5

See explanatory information and SOURCE at end of table.



Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		\$	RSE	\$	RSE	\$	RSE	\$	RSE
Transportation, communications, and utilities									
Railroad transportation .....	40	42.69	4	31.95	4	29.79	2	21.31	2
Railroad transportation .....	401	42.69	4	31.95	4	29.79	2	21.31	2
Local and interurban transit .....	41	35.01	3	23.90	3	31.38	2	17.10	8
Local and suburban transportation .....	411	30.16	4	23.74	3	<	<	26.38	7
Trucking and warehousing .....	42	35.69	5	27.22	4	25.28	3	21.87	4
Trucking and courier services, excl. air .....	421	35.13	8	25.06	3	24.17	4	21.92	3
Public warehousing and storage .....	422	36.74	5	29.18	4	23.56	6	26.14	3
Trucking terminal facilities .....	423	<	<	<	<	<	<	11.24	8
Water transportation .....	44	40.65	3	28.61	3	32.12	3	28.20	3
Deep sea foreign transportation of freight .....	441	40.90	5	30.73	5	37.70	4	32.31	4
Deep sea domestic transportation of freight .....	442	<	<	<	<	39.37	5	35.73	2
Water transportation of freight, n.e.c. ....	444	<	<	<	<	30.91	6	<	<
Water transportation of passengers .....	448	38.75	7	<	<	30.89	6	<	<
Water transportation services .....	449	39.22	5	<	<	<	<	22.97	4
Transportation by air .....	45	39.94	4	29.14	2	27.51	3	24.90	2
Air transportation, scheduled .....	451	40.08	5	29.38	2	27.28	2	26.88	3
Air transportation, nonscheduled .....	452	<	<	22.10	5	<	<	21.30	4
Airports, flying fields, and services .....	458	39.48	5	27.32	6	27.69	3	20.33	5
Pipelines, except natural gas .....	46	43.90	5	32.80	3	35.31	3	27.86	4
Pipelines, except natural gas .....	461	43.90	5	32.80	3	35.31	3	27.86	4
Transportation services .....	47	36.22	3	25.14	4	28.63	7	21.66	5
Passenger transportation arrangements .....	472	33.03	5	24.64	4	33.37	5	24.28	3
Freight transportation arrangements .....	473	39.31	2	25.30	4	30.40	9	24.52	3
Rental of railroad cars .....	474	<	<	<	<	<	<	<	<
Misc. transportation services .....	478	<	<	<	<	23.10	11	15.89	11
Communications .....	48	38.93	1	30.51	2	30.34	1	19.74	2
Telephone communications .....	481	39.64	1	30.93	2	30.31	1	24.21	2
Telegraph and other communications .....	482	42.45	3	33.40	4	32.77	2	33.03	9
Radio and television broadcasting .....	483	33.57	3	27.07	4	30.24	3	15.70	3
Cable and other pay TV services .....	484	38.61	2	25.49	3	30.10	4	17.36	4
Communications services, n.e.c. ....	489	39.84	5	30.73	3	30.80	6	26.09	5
Utilities and sanitary services .....	49	42.23	1	30.59	2	34.28	2	25.27	2
Electric services .....	491	41.86	2	30.79	2	34.36	1	25.75	2
Gas production and distribution .....	492	41.97	2	29.84	2	32.57	3	24.27	3
Combination utility services .....	493	44.53	2	31.63	2	34.18	2	27.09	2
Water supply .....	494	36.22	3	25.68	5	30.65	3	21.31	3
Sanitary services .....	495	43.64	2	28.70	6	34.37	3	19.51	4
Steam and air-conditioning supply .....	496	<	<	<	<	<	<	<	<

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		\$	RSE	\$	RSE	\$	RSE	\$	RSE
<b>Wholesale trade</b>									
Wholesale trade, durable goods .....	50	44.30	1	31.87	3	31.41	2	25.62	2
Motor vehicles, parts, and supplies .....	501	40.14	2	28.69	6	29.82	5	24.22	4
Furniture and homefurnishings .....	502	38.43	4	26.87	5	22.89	8	29.74	2
Lumber and construction materials .....	503	36.04	3	25.45	4	26.29	9	19.39	5
Professional and commercial equipment .....	504	46.68	2	32.79	3	31.18	3	28.56	2
Metals and minerals, except petroleum .....	505	37.30	5	27.15	8	28.60	4	22.19	5
Electrical goods .....	506	44.94	2	30.62	5	32.99	4	21.96	3
Hardware, plumbing, and heating equipment .....	507	38.85	3	25.94	3	30.12	4	23.01	4
Machinery, equipment, and supplies .....	508	38.89	2	26.35	4	29.48	5	22.48	4
Miscellaneous durable goods .....	509	37.24	5	26.94	10	26.93	4	23.36	4
Wholesale trade, nondurable goods .....	51	40.45	2	28.96	3	29.58	5	24.05	2
Paper and paper products .....	511	41.04	3	29.17	5	28.08	7	26.39	3
Drugs, proprietaries, and sundries .....	512	44.50	4	31.11	3	31.33	6	26.50	3
Apparel, piece goods, and notions .....	513	43.69	5	27.94	4	28.78	4	31.41	3
Groceries and related products .....	514	36.35	4	27.99	4	25.65	6	23.95	3
Farm-product raw materials .....	515	37.76	4	22.54	5	<	<	23.64	3
Chemicals and allied products .....	516	42.70	3	30.14	5	29.74	7	21.00	4
Petroleum and petroleum products .....	517	39.16	3	27.14	4	27.25	11	22.05	8
Beer, wine, and distilled beverages .....	518	33.40	3	25.74	4	<	<	29.47	3
Misc. nondurable goods .....	519	39.51	4	27.10	4	32.61	2	22.52	5
<b>Retail trade</b>									
Building materials and garden supplies .....	52	32.23	9	28.96	10	27.90	4	19.83	4
Lumber and other building materials .....	521	32.73	10	29.16	10	17.14	12	19.25	4
Hardware stores .....	525	<	<	<	<	<	<	<	<
Retail nurseries and garden stores .....	526	<	<	<	<	<	<	<	<
General merchandise stores .....	53	37.86	6	25.93	7	27.92	5	20.56	11
Department stores .....	531	38.17	6	25.91	7	28.05	5	20.35	11
Food stores .....	54	28.86	4	25.96	3	23.31	3	23.42	2
Grocery stores .....	541	28.49	5	26.18	3	23.31	3	23.45	2
Miscellaneous food stores .....	549	<	<	<	<	<	<	23.05	8
Automotive dealers and service stations .....	55	29.40	3	24.21	4	21.76	7	21.33	4
New and used car dealers .....	551	27.97	4	22.85	4	21.45	7	24.81	5
Auto and home supply stores .....	553	33.40	6	27.76	7	<	<	26.10	3
Gasoline service stations .....	554	29.43	5	24.58	5	<	<	28.80	8
Boat dealers .....	555	<	<	<	<	<	<	<	<
Apparel and accessory stores .....	56	36.88	3	26.85	4	<	<	26.46	2
Men's and boys' clothing stores .....	561	<	<	<	<	<	<	31.61	5
Women's clothing stores .....	562	37.31	7	25.52	5	<	<	27.61	5
Children's and infants' wear stores .....	564	<	<	39.55	10	<	<	<	<
Family clothing stores .....	565	33.83	5	24.13	5	<	<	25.55	5
Shoe stores .....	566	39.08	6	26.01	5	<	<	25.78	3
Misc. apparel and accessory stores .....	569	41.76	5	<	<	<	<	<	<
Furniture and homefurnishings stores .....	57	36.47	5	29.51	5	27.80	3	25.88	3
Furniture and homefurnishings stores .....	571	28.69	4	24.22	6	<	<	26.50	6
Radio, television, and computer stores .....	573	38.19	6	29.71	5	30.05	4	26.05	3
Eating and drinking places .....	58	38.59	9	26.40	6	<	<	26.09	5
Eating and drinking places .....	581	38.59	9	26.40	6	<	<	26.09	5

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		\$	RSE	\$	RSE	\$	RSE	\$	RSE
Misc. retail stores .....	59	38.93	2	28.98	2	27.74	12	27.59	3
Drug stores and proprietary stores .....	591	35.23	5	25.01	4	<	<	26.72	4
Miscellaneous shopping goods stores .....	594	38.63	4	29.07	4	<	<	26.96	3
Nonstore retailers .....	596	40.15	3	29.28	3	27.16	3	28.61	3
Fuel dealers .....	598	33.91	7	<	<	<	<	<	<
Retail stores, n.e.c. ....	599	38.85	4	28.17	6	26.42	9	23.40	3
Finance, insurance, and real estate									
Depository institutions .....	60	38.71	2	28.85	2	29.66	3	29.50	2
Central reserve depositories .....	601	40.40	3	30.66	5	<	<	31.39	2
Commercial banks .....	602	39.81	3	28.95	2	29.87	3	29.75	2
Savings institutions .....	603	37.53	2	28.02	6	<	<	26.98	2
Credit unions .....	606	28.29	1	20.99	2	<	<	23.65	3
Foreign banks and branches and agencies .....	608	51.39	6	32.86	4	<	<	28.88	2
Functions closely related to banking .....	609	43.65	7	32.16	6	36.47	3	30.50	3
Nondepository institutions .....	61	43.08	2	29.09	2	38.49	11	30.48	3
Federal and federally sponsored credit .....	611	39.89	4	28.42	3	<	<	28.23	2
Personal credit institutions .....	614	45.25	3	28.49	3	<	<	33.75	5
Business credit institutions .....	615	44.42	3	30.50	4	39.38	13	31.75	5
Mortgage bankers and brokers .....	616	40.41	3	28.24	4	<	<	27.26	3
Security and commodity brokers .....	62	47.89	2	33.49	3	35.75	5	34.31	2
Security brokers and dealers .....	621	48.49	3	33.59	4	36.52	3	35.07	2
Commodity contracts, brokers, and dealers .....	622	47.58	6	35.03	6	<	<	<	<
Security and commodity exchanges .....	623	<	<	35.47	8	<	<	31.05	2
Security and commodity services .....	628	46.68	5	32.53	4	36.85	7	34.08	3
Insurance carriers .....	63	42.12	1	29.66	2	29.81	2	28.40	1
Life insurance .....	631	42.57	2	30.12	2	32.22	4	28.73	2
Medical service and health insurance .....	632	42.13	1	27.93	1	<	<	28.39	1
Fire, marine, and casualty insurance .....	633	42.43	2	31.06	3	29.32	2	28.27	2
Surety insurance .....	635	42.75	3	29.29	6	<	<	31.21	4
Title insurance .....	636	37.91	5	27.10	3	<	<	23.00	4
Pension, health, and welfare funds .....	637	37.98	3	32.64	6	<	<	29.33	4
Insurance carriers, n.e.c. ....	639	38.23	8	23.44	8	<	<	25.91	7
Insurance agents, brokers, and service .....	64	36.39	3	28.80	3	28.78	2	27.70	2
Insurance agents, brokers, and service .....	641	36.39	3	28.80	3	28.78	2	27.70	2
Real estate .....	65	36.13	2	25.04	5	26.80	4	23.97	4
Real estate operators and lessors .....	651	37.08	4	25.01	4	26.08	4	20.05	4
Real estate agents and managers .....	653	37.41	2	24.87	8	24.68	8	28.21	4
Title abstract offices .....	654	35.15	5	25.16	6	<	<	24.74	7
Subdividers and developers .....	655	39.56	7	26.30	5	30.29	7	21.54	7
Holding and other investment offices .....	67	42.61	4	29.34	4	31.09	7	25.87	6
Holding offices .....	671	43.42	5	31.57	4	31.73	7	27.09	5
Investment offices .....	672	43.93	6	27.77	11	<	<	30.99	3
Trusts .....	673	33.45	2	20.44	7	<	<	19.46	13
Misc. investing .....	679	44.67	5	31.83	7	<	<	30.85	4

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		\$	RSE	\$	RSE	\$	RSE	\$	RSE
Services									
Hotels and other lodging places .....	70	40.35	5	23.26	2	22.76	6	17.97	4
Hotels and motels .....	701	40.35	5	23.20	2	23.89	6	17.88	4
Personal services .....	72	34.89	4	24.55	8	32.34	7	25.75	3
Laundry, cleaning, and garment services .....	721	<	<	<	<	31.93	5	25.71	5
Photographic studios, portrait .....	722	<	<	<	<	<	<	25.94	4
Beauty shops .....	723	<	<	<	<	<	<	<	<
Funeral service and crematories .....	726	<	<	<	<	<	<	23.72	6
Misc. personal services .....	729	<	<	22.96	12	<	<	28.11	5
Business services .....	73	44.87	1	33.77	1	34.44	4	30.09	2
Advertising .....	731	43.34	3	30.13	6	35.63	9	26.02	3
Credit reporting and collection .....	732	38.06	3	27.09	4	<	<	29.40	4
Mailing, reproduction, and stenographic .....	733	38.20	2	28.45	4	24.55	5	25.85	2
Services to buildings .....	734	30.73	7	<	<	29.54	4	18.43	8
Misc. equipment rental and leasing .....	735	36.53	3	32.27	6	31.21	3	18.53	5
Personnel supply services .....	736	39.34	3	31.02	5	35.78	5	25.47	5
Computer and data processing services .....	737	45.67	2	34.20	1	34.64	4	31.63	2
Misc. business services .....	738	37.60	2	26.94	4	27.20	5	21.89	3
Auto repair, services, and parking .....	75	35.17	3	28.01	4	23.44	12	20.22	8
Automobile rentals, no drivers .....	751	34.94	3	29.69	4	28.02	11	26.60	4
Automobile repair shops .....	753	<	<	31.68	10	27.50	14	24.04	11
Automobile services, except repair .....	754	<	<	<	<	<	<	10.06	8
Misc. repair services .....	76	35.87	6	25.11	4	28.01	4	18.21	3
Electrical repair shops .....	762	43.65	7	25.55	5	28.93	4	18.96	4
Misc. repair shops .....	769	32.84	6	25.16	4	27.20	4	19.86	6
Motion pictures .....	78	44.97	4	29.82	3	31.42	7	20.72	4
Motion picture production and services .....	781	46.39	4	30.20	3	31.36	8	20.86	5
Motion picture distribution and services .....	782	40.29	7	30.37	4	<	<	21.01	4
Motion picture theaters .....	783	33.60	6	<	<	<	<	11.11	6
Video tape rental .....	784	<	<	<	<	<	<	20.83	17
Amusement and recreation services .....	79	31.85	6	21.79	4	34.58	8	18.44	3
Producers, orchestras, and entertainers .....	792	40.50	6	19.07	5	<	<	18.63	5
Commercial sports .....	794	<	<	21.92	4	44.29	10	18.13	5
Misc. amusement, recreation services .....	799	32.85	7	21.66	6	18.40	7	17.45	6
Health services .....	80	34.78	1	26.94	3	24.46	4	21.60	2
Offices and clinics of medical doctors .....	801	34.94	2	26.39	9	23.66	3	15.06	9
Offices and clinics of dentists .....	802	<	<	<	<	<	<	<	<
Offices of osteopathic physicians .....	803	<	<	28.17	7	<	<	<	<
Offices of other health practitioners .....	804	33.81	4	31.67	8	<	<	20.88	13
Nursing and personal care facilities .....	805	29.30	3	22.06	6	<	<	23.38	5
Hospitals .....	806	35.50	1	26.67	2	24.42	2	22.15	2
Medical and dental laboratories .....	807	37.41	6	29.15	13	25.42	11	16.08	3
Home health care services .....	808	29.92	2	23.29	4	<	<	23.10	3
Health and allied services, n.e.c. ....	809	32.65	3	22.41	2	<	<	24.12	2
Legal services .....	81	40.45	4	29.63	2	<	<	29.17	4
Legal services .....	811	40.45	4	29.63	2	<	<	29.17	4

See explanatory information and SOURCE at end of table.

Table 11. Mean hourly wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Managers of SET personnel		Scientists		Engineers		Technicians	
		\$	RSE	\$	RSE	\$	RSE	\$	RSE
		Educational services .....	82	33.06	2	24.80	3	24.35	4
Elementary and secondary schools .....	821	33.29	3	26.11	2	<	<	22.50	2
Colleges, universities, and professional .....	822	33.07	2	23.33	5	23.77	5	19.29	1
Libraries .....	823	31.57	2	21.91	4	<	<	<	<
Vocational schools .....	824	31.91	3	26.00	9	22.15	4	21.80	4
Schools and educational services, n.e.c. ....	829	34.21	7	26.85	12	<	<	24.22	6
Social services .....	83	28.52	6	20.88	3	21.94	6	20.63	2
Individual and family services .....	832	27.39	2	20.54	2	<	<	18.98	2
Job training and related services .....	833	25.60	3	21.24	4	<	<	22.27	4
Child day care services .....	835	23.68	3	22.29	5	<	<	18.27	5
Residential care .....	836	27.29	3	20.69	3	<	<	21.69	4
Social services, n.e.c. ....	839	29.31	3	21.02	4	<	<	22.95	3
Museums, botanical, zoological gardens .....	84	27.85	5	19.35	4	22.76	6	17.67	6
Museums and art galleries .....	841	28.62	7	23.88	5	23.16	7	18.36	4
Botanical and zoological gardens .....	842	25.49	5	16.29	3	<	<	13.07	5
Membership organizations .....	86	32.81	2	24.46	4	30.34	6	23.02	3
Business associations .....	861	32.30	2	26.13	7	<	<	24.89	2
Professional organizations .....	862	36.83	2	28.52	7	<	<	27.43	2
Labor organizations .....	863	34.46	3	26.41	4	24.07	4	28.17	3
Civic and social associations .....	864	26.70	3	21.38	5	<	<	17.15	5
Political organizations .....	865	<	<	23.08	19	<	<	<	<
Religious organizations .....	866	29.75	4	23.50	6	<	<	18.18	7
Membership organizations, n.e.c. ....	869	33.63	4	23.71	5	<	<	21.58	4
Engineering and management services .....	87	41.98	1	29.21	4	31.71	2	18.97	2
Engineering and architectural services .....	871	41.80	1	30.79	5	31.06	2	18.39	2
Accounting, auditing, and bookkeeping .....	872	41.13	3	29.63	4	30.70	5	27.10	4
Research and testing services .....	873	43.92	2	28.59	5	35.26	3	18.22	3
Management and public relations .....	874	40.00	2	28.91	5	32.23	10	23.50	5
Services, n.e.c. ....	89	39.03	6	29.31	5	29.40	5	20.82	6
Services, n.e.c. ....	899	39.03	6	29.28	5	29.40	5	20.82	6
Public administration									
Federal, state, and local government .....	90	36.15	<	27.10	1	30.90	1	19.78	1
Federal government .....	901	38.55	1	31.54	1	34.20	1	21.18	1
State government .....	902	32.37	1	23.90	1	27.45	<	18.32	<
Local government .....	903	33.85	1	24.05	1	28.83	2	19.94	1

KEY: RSE = Relative standard error of the mean hourly wage, expressed as a percentage.  
 < = Too few cases to estimate or RSE less than 0.5 percent.  
 n.e.c. = Not elsewhere classified.  
 SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean hourly wages are calculated from the mean values of 11 wage intervals, using data from the BLS National Compensation Survey. See Technical Notes for more detail. Two-digit SIC information incorporates information for all 3-digit industries, including those 3-digit industries not displayed separately. Includes wage information for industry/occupation combinations for which employment estimates are unavailable.

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

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Total.....		85,863	63,350	65,654	46,955
Agriculture, forestry, and fishing					
Agricultural services .....	07	<	44,051	56,917	31,427
Crop services .....	072	<	54,750	66,933	28,568
Animal services, except veterinary .....	075	<	41,140	<	27,020
Farm labor and management services .....	076	<	<	<	<
Landscape and horticultural services .....	078	<	30,430	53,520	36,920
Mining					
Metal mining .....	10	88,950	60,179	64,207	41,876
Iron ores .....	101	<	<	88,070	<
Copper ores .....	102	<	50,430	63,509	41,831
Gold and silver ores .....	104	<	65,550	66,721	42,705
Metal mining services .....	108	<	66,280	<	<
Misc. metal ores, n.e.c. ....	109	<	<	<	<
Coal mining .....	12	85,737	64,480	62,674	45,456
Bituminous coal and lignite mining .....	122	85,240	64,480	62,906	46,348
Oil and gas extraction .....	13	108,761	80,517	82,287	46,746
Crude petroleum and natural gas .....	131	116,568	85,512	86,532	45,830
Natural gas liquids .....	132	<	<	<	57,210
Oil and gas field services .....	138	<	63,910	68,738	42,749
Nonmetallic minerals, except fuels .....	14	82,778	54,874	60,501	39,961
Crushed and broken stone .....	142	73,640	<	56,383	42,538
Sand and gravel .....	144	74,180	<	53,280	32,350
Clay, ceramic, and refractory minerals .....	145	<	<	<	33,750
Chemical and fertilizer minerals .....	147	<	<	69,250	36,390
Misc. nonmetallic minerals .....	149	<	<	<	39,040
Construction					
General building contractors .....	15	64,360	51,804	59,722	40,978
Residential building construction .....	152	70,080	51,660	61,520	38,727
Operative builders .....	153	101,220	<	58,610	38,396
Nonresidential building excluding building .....	154	62,366	51,744	59,710	43,165
Heavy construction, excluding building .....	16	88,151	56,921	67,402	41,801
Highway and street construction .....	161	75,160	51,280	57,179	40,001
Heavy construction, except highway .....	162	91,780	58,520	69,425	43,921
Special trade contractors .....	17	73,696	54,986	60,899	42,330
Plumbing, heating, air conditioning .....	171	69,290	54,870	60,274	44,247
Painting and paper hanging .....	172	<	<	<	<
Electrical work .....	173	79,504	54,548	61,475	41,445
Masonry, stonework, and plastering .....	174	66,450	<	59,412	42,830
Carpentry and floor work .....	175	<	<	52,590	39,820
Roofing, siding, and sheet-metal work .....	176	<	57,920	52,933	41,110
Concrete work .....	177	70,380	<	55,002	41,388
Misc. special trade contractors .....	179	83,280	49,899	61,520	40,624

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Total manufacturing					
Food and kindred products .....	20	81,989	57,714	61,383	37,533
Meat products .....	201	71,152	43,792	56,552	33,477
Dairy products .....	202	76,378	48,743	57,029	35,709
Preserved fruits & vegetables .....	203	84,170	60,197	60,088	38,921
Grain mill products .....	204	85,729	56,888	62,383	38,824
Bakery products .....	205	74,923	57,685	54,055	43,231
Sugar and confectionery products .....	206	87,193	53,999	61,740	37,218
Fats and oils .....	207	82,080	50,229	62,831	36,350
Beverages .....	208	84,633	63,473	65,059	41,377
Misc. food and kindred products .....	209	82,550	54,624	58,762	35,282
Tobacco products .....	21	84,993	63,727	<	48,485
Cigarettes .....	211	<	63,836	<	47,904
Chewing and smoking tobacco .....	213	<	<	<	<
Textile mill products .....	22	69,790	54,362	56,321	38,833
Broadwoven fabric mills, cotton .....	221	70,241	<	53,570	38,946
Broadwoven fabric mills, manmade .....	222	73,900	55,750	61,684	42,867
Narrow fabric mills .....	224	<	<	<	<
Knitting mills .....	225	64,098	48,730	51,919	40,305
Textile finishing, except wool .....	226	73,815	53,813	55,810	33,572
Carpets and rugs .....	227	70,999	52,410	52,375	46,444
Yarn and thread mills .....	228	66,493	<	48,690	37,682
Miscellaneous textile goods .....	229	76,403	57,741	60,038	38,748
Apparel and other textile products .....	23	74,392	58,236	53,904	47,561
Men's & boys' furnishings .....	232	75,558	58,689	53,190	52,694
Women's and misses' outerwear .....	233	88,640	60,695	43,890	56,550
Women's and children's undergarments .....	234	<	<	<	<
Girls' and children's outerwear .....	236	<	<	<	50,260
Miscellaneous apparel and accessories .....	238	69,830	<	56,750	47,510
Misc. fabricated textile products .....	239	70,227	46,530	55,776	44,837
Lumber and wood products .....	24	71,930	51,778	53,565	39,343
Logging .....	241	<	45,060	<	35,250
Sawmills and planing mills .....	242	76,546	50,850	60,061	40,722
Millwork, plywood & structural members .....	243	73,264	51,676	54,199	39,682
Wood containers .....	244	<	<	<	<
Wood buildings and mobile homes .....	245	62,180	<	45,293	36,491
Miscellaneous wood products .....	249	68,475	48,165	56,274	43,230
Furniture and fixtures .....	25	73,140	54,824	55,676	40,442
Household furniture .....	251	66,919	46,170	49,098	38,484
Office furniture .....	252	75,132	54,080	55,763	42,766
Public building & related furniture .....	253	80,795	46,880	60,769	42,184
Partitions and fixtures .....	254	70,420	51,420	53,716	37,652
Miscellaneous furniture and fixtures .....	259	73,445	53,830	57,706	45,543
Paper and allied products .....	26	92,560	59,293	66,856	46,170
Pulp mills .....	261	<	54,879	67,869	<
Paper mills .....	262	88,646	60,817	64,315	40,308
Paperboard mills .....	263	88,320	57,277	65,663	44,154
Paperboard containers and boxes .....	265	80,471	53,445	56,592	45,406
Misc. converted paper products .....	267	96,855	58,081	64,505	43,942

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Printing and publishing .....	27	79,818	57,462	58,597	51,564
Newspapers .....	271	73,048	54,838	56,814	49,347
Periodicals .....	272	90,020	59,160	63,480	56,732
Books .....	273	90,914	54,769	57,300	58,470
Miscellaneous publishing .....	274	82,044	60,603	62,752	51,019
Commercial printing .....	275	73,000	54,009	57,642	47,767
Manifold business forms .....	276	64,540	53,764	<	49,500
Greeting cards .....	277	71,680	60,990	<	<
Blankbooks and bookbinding .....	278	88,050	59,743	57,620	42,422
Printing trade services .....	279	80,040	56,280	<	58,390
Chemicals and allied products .....	28	98,366	62,430	67,521	42,532
Industrial inorganic chemicals .....	281	88,454	59,171	67,621	42,501
Plastics materials and synthetics .....	282	92,767	65,630	68,399	44,819
Drugs .....	283	104,194	63,174	66,437	40,624
Soap, cleaners, and toilet goods .....	284	99,005	57,783	65,397	40,524
Paints and allied products .....	285	82,147	54,468	63,347	38,852
Industrial organic chemicals .....	286	91,793	65,702	70,481	46,209
Agricultural chemicals .....	287	87,872	62,064	63,804	42,246
Miscellaneous chemical products .....	289	86,679	59,727	65,614	42,064
Petroleum and coal products .....	29	92,784	65,584	72,653	48,346
Petroleum refining .....	291	94,538	66,745	73,679	50,132
Asphalt paving and roofing materials .....	295	68,888	51,960	63,727	32,630
Misc. petroleum and coal products .....	299	93,531	55,730	69,677	39,620
Rubber and misc. plastics products .....	30	76,403	56,311	57,761	39,957
Tires and inner tubes .....	301	78,869	56,179	58,848	45,023
Hose & belting & gaskets & packing .....	305	79,061	56,608	56,755	37,418
Fabricated rubber products, n.e.c. ....	306	75,362	52,850	56,501	38,322
Miscellaneous plastics products, n.e.c. ....	308	75,923	56,691	58,000	39,746
Leather and leather products .....	31	82,171	53,094	53,490	49,606
Footwear, except rubber .....	314	77,360	55,740	<	59,470
Luggage .....	316	<	<	<	<
Stone, clay and glass products .....	32	78,329	54,975	58,821	39,801
Flat glass .....	321	85,240	<	59,053	46,040
Glass and glassware, pressed or blown .....	322	86,035	59,179	62,539	43,856
Products of purchased glass .....	323	80,076	54,881	56,945	41,416
Cement, hydraulic .....	324	78,140	48,530	62,365	40,076
Structural clay products .....	325	67,543	<	55,158	30,020
Pottery and related products .....	326	78,967	<	58,346	37,397
Concrete, gypsum, and plaster products .....	327	72,850	55,027	55,860	37,637
Misc. nonmetallic mineral products .....	329	82,184	57,062	60,511	39,430
Primary metal industries .....	33	79,635	59,036	59,869	41,111
Blast furnace and basic steel products .....	331	76,955	57,595	59,908	43,483
Iron and steel foundries .....	332	78,339	58,479	57,659	40,357
Primary nonferrous metals .....	333	83,902	57,640	59,674	40,642
Secondary nonferrous metals .....	334	<	44,840	56,940	34,420
Nonferrous rolling and drawing .....	335	82,833	62,765	62,665	40,711
Nonferrous foundries (castings) .....	336	74,577	50,950	56,335	37,900
Miscellaneous primary metal products .....	339	78,988	58,730	56,708	36,161

See explanatory information and SOURCE at end of table.



Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Fabricated metal products .....	34	74,117	55,391	58,021	40,099
Metal cans and shipping containers .....	341	84,170	<	65,207	42,603
Cutlery, hand tools, and hardware .....	342	74,773	55,304	55,325	39,815
Plumbing and heating, except electric .....	343	75,568	54,608	57,692	39,559
Fabricated structural metal products .....	344	69,242	55,134	57,131	38,597
Screw machine products, bolts, etc. ....	345	72,715	54,705	55,182	40,111
Metal forgings and stampings .....	346	80,094	54,565	58,981	43,269
Metal services, n.e.c. ....	347	69,177	43,591	55,339	36,780
Ordnance and accessories, n.e.c. ....	348	81,304	58,124	62,126	46,038
Misc. fabricated metal products .....	349	74,427	53,763	55,358	39,185
Industrial machinery and equipment .....	35	89,099	74,768	63,667	45,947
Engines and turbines .....	351	88,906	62,435	60,571	44,638
Farm and garden machinery .....	352	72,577	57,082	53,525	36,183
Construction and related machinery .....	353	76,813	58,674	58,348	40,731
Metalworking machinery .....	354	76,609	56,176	55,804	43,258
Special industry machinery .....	355	87,125	67,221	61,124	42,659
General industrial machinery .....	356	78,663	60,155	58,698	40,861
Computer and office equipment .....	357	106,012	77,867	75,891	57,904
Refrigeration and service machinery .....	358	75,355	56,780	56,195	38,420
Industrial machinery, n.e.c. ....	359	70,973	52,668	56,234	40,491
Electronic & other electric equipment .....	36	95,768	72,190	68,306	40,502
Electric distribution equipment .....	361	84,123	68,165	59,108	38,591
Electrical industrial apparatus .....	362	81,701	60,674	59,327	38,662
Household appliances .....	363	80,812	55,165	57,523	38,264
Electric lighting and wiring equipment .....	364	83,301	63,478	59,894	39,921
Household audio and video equipment .....	365	86,751	59,350	62,075	38,154
Communication equipment .....	366	98,125	73,255	70,196	42,309
Electronic components and accessories .....	367	100,713	74,590	71,709	40,268
Misc. electrical equipment & supplies .....	369	84,279	65,981	61,182	39,344
Transportation equipment .....	37	91,891	66,411	66,596	48,933
Motor vehicles and equipment .....	371	90,086	61,637	63,107	46,947
Aircraft and parts .....	372	92,599	67,010	68,221	51,681
Ship and boat building and repairing .....	373	81,106	53,099	53,359	37,716
Railroad equipment .....	374	85,148	57,310	62,752	45,558
Motorcycles, bicycles, and parts .....	375	88,207	56,920	60,278	41,200
Guided missiles, space vehicles, parts .....	376	101,296	68,194	69,791	49,674
Miscellaneous transportation equipment .....	379	78,114	68,043	59,006	42,076
Instruments and related products .....	38	94,710	69,302	68,236	43,882
Search and navigation equipment .....	381	96,535	72,051	71,258	45,491
Measuring and controlling devices .....	382	94,228	69,402	66,218	43,706
Medical instruments and supplies .....	384	93,031	63,197	65,105	41,981
Ophthalmic goods .....	385	89,413	63,571	64,348	41,668
Photographic equipment and supplies .....	386	94,627	75,097	68,484	45,053

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Miscellaneous manufacturing industries .....	39	79,681	58,070	58,334	40,808
Jewelry, silverware, and plated ware .....	391	86,950	51,889	60,970	54,620
Musical instruments .....	393	<	<	59,031	45,343
Toys and sporting goods .....	394	80,542	59,023	59,403	43,682
Pens, pencils, office, & art supplies .....	395	75,413	56,401	55,226	41,892
Costume jewelry and notions .....	396	<	<	<	<
Miscellaneous manufactures .....	399	78,572	57,523	57,696	39,420
Transportation, communications, and utilities					
Railroad transportation .....	40	88,804	66,467	61,960	44,318
Railroad transportation .....	401	88,804	66,467	61,960	44,318
Local and interurban transit .....	41	72,820	49,719	65,270	35,553
Local and suburban transportation .....	411	62,740	49,370	<	54,869
Trucking and warehousing .....	42	74,251	56,615	52,589	45,487
Trucking and courier services, excl. air .....	421	73,079	52,130	50,279	45,586
Public warehousing and storage .....	422	76,425	60,685	49,008	54,360
Trucking terminal facilities .....	423	<	<	<	23,390
Water transportation .....	44	84,545	59,510	66,815	58,656
Deep sea foreign transportation of freight .....	441	85,068	63,910	78,420	67,200
Deep sea domestic transportation of freight .....	442	<	<	81,890	74,320
Water transportation of freight, n.e.c. ....	444	<	<	64,290	<
Water transportation of passengers .....	448	80,600	<	64,240	<
Water transportation services .....	449	81,567	<	<	47,780
Transportation by air .....	45	83,066	60,600	57,223	51,788
Air transportation, scheduled .....	451	83,371	61,125	56,734	55,902
Air transportation, nonscheduled .....	452	<	45,960	<	44,297
Airports, flying fields, and services .....	458	82,125	56,821	57,594	42,288
Pipelines, except natural gas .....	46	91,300	68,220	73,445	57,945
Pipelines, except natural gas .....	461	91,300	68,220	73,445	57,945
Transportation services .....	47	75,338	52,298	59,548	45,053
Passenger transportation arrangements .....	472	68,700	51,252	69,410	50,510
Freight transportation arrangements .....	473	81,770	52,628	63,232	51,003
Rental of railroad cars .....	474	<	<	<	<
Misc. transportation services .....	478	<	<	48,040	33,045
Communications .....	48	80,973	63,448	63,096	41,054
Telephone communications .....	481	82,457	64,335	63,038	50,362
Telegraph and other communications .....	482	88,295	69,473	68,170	68,690
Radio and television broadcasting .....	483	69,836	56,315	62,889	32,666
Cable and other pay TV services .....	484	80,308	53,015	62,614	36,106
Communications services, n.e.c. ....	489	82,870	63,920	64,055	54,265
Utilities and sanitary services .....	49	87,824	63,640	71,309	52,565
Electric services .....	491	87,072	64,041	71,481	53,557
Gas production and distribution .....	492	87,299	62,074	67,742	50,483
Combination utility services .....	493	92,617	65,797	71,082	56,347
Water supply .....	494	75,340	53,414	63,756	44,314
Sanitary services .....	495	90,770	59,703	71,497	40,587
Steam and air-conditioning supply .....	496	<	<	<	<

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
<b>Wholesale trade</b>					
Wholesale trade, durable goods .....	50	92,137	66,282	65,343	53,299
Motor vehicles, parts, and supplies .....	501	83,481	59,667	62,022	50,380
Furniture and home furnishings .....	502	79,935	55,884	47,620	61,860
Lumber and construction materials .....	503	74,955	52,946	54,677	40,332
Professional and commercial equipment .....	504	97,112	68,213	64,852	59,420
Metals and minerals, except petroleum .....	505	77,584	56,473	59,487	46,151
Electrical goods .....	506	93,470	63,686	68,630	45,675
Hardware, plumbing, and heating equipment .....	507	80,793	53,957	62,646	47,859
Machinery, equipment, and supplies .....	508	80,891	54,798	61,324	46,756
Miscellaneous durable goods .....	509	77,467	56,027	56,009	48,576
Wholesale trade, nondurable goods .....	51	84,133	60,225	61,528	50,020
Paper and paper products .....	511	85,369	60,681	58,413	54,891
Drugs, proprietaries, and sundries .....	512	92,560	64,700	65,158	55,125
Apparel, piece goods, and notions .....	513	90,883	58,102	59,862	65,340
Groceries and related products .....	514	75,595	58,211	53,359	49,814
Farm-product raw materials .....	515	78,548	46,877	<	49,153
Chemicals and allied products .....	516	88,811	62,684	61,848	43,673
Petroleum and petroleum products .....	517	81,440	56,454	56,669	45,861
Beer, wine, and distilled beverages .....	518	69,470	53,530	<	61,290
Misc. nondurable goods .....	519	82,186	56,371	67,835	46,850
<b>Retail trade</b>					
Building materials and garden supplies .....	52	67,043	60,233	58,020	41,248
Lumber and other building materials .....	521	68,076	60,660	35,650	40,035
Hardware stores .....	525	<	<	<	<
Retail nurseries and garden stores .....	526	<	<	<	<
General merchandise stores .....	53	78,754	53,941	58,076	42,767
Department stores .....	531	79,413	53,899	58,341	42,334
Food stores .....	54	60,011	53,996	48,480	48,710
Grocery stores .....	541	59,266	54,450	48,480	48,774
Miscellaneous food stores .....	549	<	<	<	47,930
Automotive dealers and service stations .....	55	61,143	50,368	45,250	44,353
New and used car dealers .....	551	58,170	47,533	44,620	51,602
Auto and home supply stores .....	553	69,470	57,733	<	54,280
Gasoline service stations .....	554	61,220	51,126	<	59,910
Boat dealers .....	555	<	<	<	<
Apparel and accessory stores .....	56	76,699	55,842	<	55,040
Men's and boys' clothing stores .....	561	<	<	<	65,760
Women's clothing stores .....	562	77,600	53,060	<	57,420
Children's and infants' wear stores .....	564	<	82,260	<	<
Family clothing stores .....	565	70,358	50,185	<	53,150
Shoe stores .....	566	81,280	54,110	<	53,614
Misc. apparel and accessory stores .....	569	86,870	<	<	<
Furniture and home furnishings stores .....	57	75,868	61,385	57,823	53,842
Furniture and home furnishings stores .....	571	59,670	50,366	<	55,117
Radio, television, and computer stores .....	573	79,443	61,792	62,492	54,177

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Eating and drinking places .....	58	80,252	54,911	<	54,260
Eating and drinking places .....	581	80,252	54,911	<	54,260
Misc. retail stores .....	59	80,978	60,292	57,698	57,389
Drug stores and proprietary stores .....	591	73,280	52,029	<	55,580
Miscellaneous shopping goods stores .....	594	80,349	60,460	<	56,080
Nonstore retailers .....	596	83,508	60,906	56,483	59,492
Fuel dealers .....	598	70,540	<	<	<
Retail stores, n.e.c. ....	599	80,810	58,598	54,960	48,671
Finance, insurance, and real estate					
Depository institutions .....	60	80,529	60,014	61,695	61,360
Central reserve depositories .....	601	84,030	63,764	<	65,280
Commercial banks .....	602	82,795	60,215	62,135	61,880
Savings institutions .....	603	78,050	58,279	<	56,120
Credit unions .....	606	58,840	43,664	<	49,190
Foreign banks and branches and agencies .....	608	106,880	68,333	<	60,060
Functions closely related to banking .....	609	90,790	66,902	75,860	63,440
Nondepository institutions .....	61	89,610	60,510	80,050	63,400
Federal and federally sponsored credit .....	611	82,970	59,118	<	58,720
Personal credit institutions .....	614	94,110	59,247	<	70,200
Business credit institutions .....	615	92,400	63,439	81,900	66,040
Mortgage bankers and brokers .....	616	84,050	58,745	<	56,700
Security and commodity brokers .....	62	99,610	69,649	74,368	71,354
Security brokers and dealers .....	621	100,860	69,872	75,950	72,944
Commodity contracts, brokers, and dealers .....	622	98,960	72,868	<	<
Security and commodity exchanges .....	623	<	73,766	<	64,580
Security and commodity services .....	628	97,090	67,667	76,640	70,880
Insurance carriers .....	63	87,624	61,697	62,007	59,067
Life insurance .....	631	88,540	62,646	67,029	59,738
Medical service and health insurance .....	632	87,620	58,097	<	59,050
Fire, marine, and casualty insurance .....	633	88,260	64,608	60,993	58,794
Surety insurance .....	635	88,910	60,927	<	64,910
Title insurance .....	636	78,850	56,373	<	47,835
Pension, health, and welfare funds .....	637	79,000	67,893	<	61,000
Insurance carriers, n.e.c. ....	639	79,520	48,760	<	53,890
Insurance agents, brokers, and service .....	64	75,690	59,912	59,870	57,628
Insurance agents, brokers, and service .....	641	75,690	59,912	59,870	57,628
Real estate .....	65	75,151	52,080	55,741	49,868
Real estate operators and lessors .....	651	77,136	52,024	54,253	41,715
Real estate agents and managers .....	653	77,810	51,730	51,327	58,665
Title abstract offices .....	654	73,120	52,332	<	51,465
Subdividers and developers .....	655	82,290	54,709	63,001	44,810
Holding and other investment offices .....	67	88,626	61,016	64,672	53,799
Holding offices .....	671	90,308	65,677	65,999	56,341
Investment offices .....	672	91,380	57,760	<	64,450
Trusts .....	673	69,570	42,509	<	40,477
Misc. investing .....	679	92,906	66,197	<	64,160

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Services					
Hotels and other lodging places .....	70	83,944	48,379	47,340	37,378
Hotels and motels .....	701	83,940	48,252	49,686	37,201
Personal services .....	72	72,570	51,057	67,265	53,573
Laundry, cleaning, and garment services .....	721	<	<	66,410	53,470
Photographic studios, portrait .....	722	<	<	<	53,950
Beauty shops .....	723	<	<	<	<
Funeral service and crematories .....	726	<	<	<	49,340
Misc. personal services .....	729	<	47,758	<	58,470
Business services .....	73	93,334	70,244	71,622	62,580
Advertising .....	731	90,154	62,662	74,113	54,117
Credit reporting and collection .....	732	79,160	56,351	<	61,150
Mailing, reproduction, and stenographic .....	733	79,450	59,173	51,070	53,757
Services to buildings .....	734	63,910	<	61,450	38,330
Misc. equipment rental and leasing .....	735	75,970	67,135	64,915	38,533
Personnel supply services .....	736	81,822	64,532	74,419	52,964
Computer and data processing services .....	737	94,982	71,143	72,044	65,786
Misc. business services .....	738	78,202	56,034	56,562	45,540
Auto repair, services, and parking .....	75	73,160	58,254	48,751	42,054
Automobile rentals, no drivers .....	751	72,670	61,746	58,280	55,329
Automobile repair shops .....	753	<	65,898	57,193	50,005
Automobile services, except repair .....	754	<	<	<	20,932
Misc. repair services .....	76	74,611	52,225	58,270	37,875
Electrical repair shops .....	762	90,779	53,151	60,168	39,437
Misc. repair shops .....	769	68,320	52,325	56,584	41,311
Motion pictures .....	78	93,538	62,030	65,365	43,096
Motion picture production and services .....	781	96,509	62,809	65,233	43,391
Motion picture distribution and services .....	782	83,800	63,175	<	43,695
Motion picture theaters .....	783	69,890	<	<	23,110
Video tape rental .....	784	<	<	<	43,322
Amusement and recreation services .....	79	66,257	45,312	71,926	38,360
Producers, orchestras, and entertainers .....	792	84,230	39,678	<	38,744
Commercial sports .....	794	<	45,597	92,130	37,712
Misc. amusement, recreation services .....	799	68,328	45,057	38,260	36,299
Health services .....	80	72,344	56,029	50,879	44,931
Offices and clinics of medical doctors .....	801	72,680	54,879	49,210	31,323
Offices and clinics of dentists .....	802	<	<	<	<
Offices of osteopathic physicians .....	803	<	58,600	<	<
Offices of other health practitioners .....	804	70,320	65,878	<	43,440
Nursing and personal care facilities .....	805	60,950	45,885	<	48,630
Hospitals .....	806	73,832	55,476	50,796	46,077
Medical and dental laboratories .....	807	77,815	60,615	52,880	33,442
Home health care services .....	808	62,240	48,450	<	48,040
Health and allied services, n.e.c. ....	809	67,914	46,612	<	50,170
Legal services .....	81	84,140	61,628	<	60,670
Legal services .....	811	84,140	61,628	<	60,670

See explanatory information and SOURCE at end of table.

Table 12. Mean annual wages of employed scientists, engineers, technicians (SETs), and managers of SET personnel, by detailed industry of employment: 2001

Detailed industry	SIC	Mean annual wages (dollars)			
		Managers of SET personnel	Scientists	Engineers	Technicians
Educational services .....	82	68,766	51,584	50,653	41,469
Elementary and secondary schools .....	821	69,255	54,306	<	46,791
Colleges, universities, and professional .....	822	68,772	48,534	49,445	40,126
Libraries .....	823	65,660	45,570	<	<
Vocational schools .....	824	66,370	54,079	46,060	45,335
Schools and educational services, n.e.c. ....	829	71,141	55,837	<	50,368
Social services .....	83	59,319	43,426	45,630	42,912
Individual and family services .....	832	56,980	42,715	<	39,470
Job training and related services .....	833	53,240	44,177	<	46,320
Child day care services .....	835	49,260	46,361	<	38,000
Residential care .....	836	56,757	43,054	<	45,110
Social services, n.e.c. ....	839	60,960	43,725	<	47,730
Museums, botanical, zoological gardens .....	84	57,946	40,247	47,350	36,748
Museums and art galleries .....	841	59,527	49,657	48,180	38,192
Botanical and zoological gardens .....	842	53,020	33,880	<	27,190
Membership organizations .....	86	68,239	50,883	63,106	47,883
Business associations .....	861	67,180	54,363	<	51,772
Professional organizations .....	862	76,600	59,318	<	57,050
Labor organizations .....	863	71,670	54,938	50,070	58,600
Civic and social associations .....	864	55,530	44,473	<	35,679
Political organizations .....	865	<	48,020	<	<
Religious organizations .....	866	61,880	48,879	<	37,820
Membership organizations, n.e.c. ....	869	69,949	49,310	<	44,880
Engineering and management services .....	87	87,314	60,752	65,945	39,449
Engineering and architectural services .....	871	86,939	64,039	64,593	38,248
Accounting, auditing, and bookkeeping .....	872	85,548	61,634	63,856	56,374
Research and testing services .....	873	91,355	59,468	73,342	37,887
Management and public relations .....	874	83,199	60,131	67,023	48,878
Services, n.e.c. ....	89	81,199	60,953	61,153	43,298
Services, n.e.c. ....	899	81,199	60,906	61,153	43,298
Public administration					
Federal, state, and local government .....	90	75,206	56,372	64,277	41,145
Federal government .....	901	80,183	65,597	71,139	44,058
State government .....	902	67,322	49,705	57,110	38,105
Local government .....	903	70,418	50,033	59,971	41,477

KEY: < = Too few cases to estimate.  
n.e.c. = Not elsewhere classified.  
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean annual wages have been calculated by multiplying mean hourly wages by a "full-time" figure of 2,080 hours. See Technical Notes for more detail. Two-digit SIC information incorporates information for all 3-digit industries, including those 3-digit industries not displayed separately. Includes wage information for industry/occupation groups for which employment estimates are unavailable.

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

Table 13. Mean hourly wages of employed scientists, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean hourly wages (dollars)					
		Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Total.....		30.46	27.70	29.60	27.06	26.24	32.02
Agriculture, forestry, and fishing							
Agricultural services .....	07	21.18	<	<	20.69	<	27.21
Mining							
Metal mining .....	10	28.93	28.93	<	<	<	<
Coal mining .....	12	31.00	31.00	<	<	<	<
Oil and gas extraction .....	13	38.71	39.71	<	<	33.82	32.06
Nonmetallic minerals, except fuels .....	14	26.38	26.06	<	<	<	<
Construction							
General building contractors .....	15	24.90	<	<	<	24.40	25.15
Heavy construction, excluding building .....	16	27.37	<	<	<	<	27.37
Special trade contractors .....	17	26.43	24.87	<	<	30.16	26.19
Total manufacturing							
Food and kindred products .....	20	27.75	22.93	27.65	27.01	29.59	30.17
Tobacco products .....	21	30.64	<	<	<	<	30.64
Textile mill products .....	22	26.14	25.62	<	<	30.83	25.92
Apparel and other textile products .....	23	28.00	<	<	<	29.16	27.59
Lumber and wood products .....	24	24.90	<	<	23.13	28.34	28.04
Furniture and fixtures .....	25	26.36	<	<	<	29.79	24.86
Paper and allied products .....	26	28.51	29.56	<	25.03	<	28.41
Printing and publishing .....	27	27.63	<	27.65	<	25.60	28.15
Chemicals and allied products .....	28	30.02	28.82	36.62	32.05	30.10	30.55
Petroleum and coal products .....	29	31.53	31.12	<	<	30.86	31.80
Rubber and misc. plastics products .....	30	27.07	26.85	<	<	29.83	26.74
Leather and leather products .....	31	25.53	<	<	<	23.11	26.49
Stone, clay and glass products .....	32	26.43	25.48	<	<	28.54	26.77
Primary metal industries .....	33	28.38	27.95	26.97	<	27.78	28.74
Fabricated metal products .....	34	26.63	26.11	<	<	30.87	26.21
Industrial machinery and equipment .....	35	35.95	31.00	29.14	<	35.92	36.10
Electronic & other electric equipment .....	36	34.71	29.30	30.61	<	33.28	35.00
Transportation equipment .....	37	31.93	28.35	28.10	<	35.75	32.70
Instruments and related products .....	38	33.32	29.13	30.56	25.53	30.67	34.10
Miscellaneous manufacturing industries .....	39	27.92	27.19	<	<	25.25	28.47
Transportation, communications, and utilities							
Railroad transportation .....	40	31.95	<	28.06	<	31.81	32.66
Local and interurban transit .....	41	23.90	<	<	<	<	23.05
Trucking and warehousing .....	42	27.22	<	21.57	<	27.07	27.63
Water transportation .....	44	28.61	<	25.16	<	26.23	30.49
Transportation by air .....	45	29.14	23.96	23.10	<	29.55	30.54
Pipelines, except natural gas .....	46	32.80	<	<	<	<	32.80
Transportation services .....	47	25.14	<	20.85	<	23.18	25.64
Communications .....	48	30.51	31.32	23.96	<	31.10	30.64
Utilities and sanitary services .....	49	30.59	29.93	29.43	27.15	29.49	31.16

See explanatory information and SOURCE at end of table.

Table 13. Mean hourly wages of employed scientists, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean hourly wages (dollars)					
		Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
<b>Wholesale trade</b>							
Wholesale trade, durable goods .....	50	31.87	27.56	32.47	19.68	34.63	31.63
Wholesale trade, nondurable goods .....	51	28.96	27.68	32.77	28.37	27.44	29.78
<b>Retail trade</b>							
Building materials and garden supplies .....	52	28.96	<	<	<	18.11	29.23
General merchandise stores .....	53	25.93	<	19.56	<	19.72	27.02
Food stores .....	54	25.96	<	<	<	21.29	26.58
Automotive dealers and service stations .....	55	24.21	<	<	<	20.06	24.79
Apparel and accessory stores .....	56	26.85	<	<	<	24.13	27.60
Furniture and homefurnishings stores .....	57	29.51	<	<	<	23.23	29.73
Eating and drinking places .....	58	26.40	<	<	<	<	26.84
Misc. retail stores .....	59	28.98	<	26.38	<	25.25	29.86
<b>Finance, insurance, and real estate</b>							
Depository institutions .....	60	28.85	<	22.19	<	27.24	29.64
Nondepository institutions .....	61	29.09	<	25.48	<	26.01	29.76
Security and commodity brokers .....	62	33.49	<	29.32	<	32.11	34.04
Insurance carriers .....	63	29.66	<	31.56	32.63	23.75	29.87
Insurance agents, brokers, and service .....	64	28.80	<	34.30	<	26.83	28.29
Real estate .....	65	25.04	<	<	<	23.53	25.80
Holding and other investment offices .....	67	29.34	30.48	20.51	36.69	27.19	30.93
<b>Services</b>							
Hotels and other lodging places .....	70	23.26	<	<	<	<	23.26
Personal services .....	72	24.55	<	<	<	22.09	26.13
Business services .....	73	33.77	22.93	33.00	31.98	27.81	34.06
Auto repair, services, and parking .....	75	28.01	<	25.98	<	18.28	29.13
Misc. repair services .....	76	25.11	<	<	<	<	25.11
Motion pictures .....	78	29.82	<	<	<	26.33	29.99
Amusement and recreation services .....	79	21.79	<	<	<	19.28	24.73
Health services .....	80	26.94	35.39	25.98	26.06	26.88	27.06
Legal services .....	81	29.63	<	<	<	26.66	29.70
Educational services .....	82	24.80	20.27	23.29	22.46	26.49	24.07
Social services .....	83	20.88	<	21.98	28.78	20.33	22.93
Museums, botanical, zoological gardens .....	84	19.35	<	<	15.96	20.80	28.55
Membership organizations .....	86	24.46	21.06	26.09	22.22	22.96	25.77
Engineering and management services .....	87	29.21	26.42	29.86	29.46	22.88	32.85
Services, n.e.c. ....	89	29.31	25.40	37.21	23.32	22.10	31.25

See explanatory information and SOURCE at end of table.



Table 13. Mean hourly wages of employed scientists, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean hourly wages (dollars)					
		Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Public administration Federal, state, and local government .....	90	27.10	27.10	29.50	24.66	25.83	28.24

KEY: < = Too few cases to estimate.  
n.e.c. = Not elsewhere classified.  
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean hourly wages are calculated from the mean values of 11 wage intervals, using data from the BLS National Compensation Survey. See Technical Notes for more detail. Includes wage information for industry/occupation combinations for which employment estimates are unavailable.

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

Table 14. Mean annual wages of employed scientists, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean annual wages (dollars)					
		Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Total.....		63,350	57,616	61,579	56,287	54,582	66,608
Agriculture, forestry, and fishing							
Agricultural services .....	07	44,051	<	<	43,040	<	56,590
Mining							
Metal mining .....	10	60,179	60,179	<	<	<	<
Coal mining .....	12	64,480	64,480	<	<	<	<
Oil and gas extraction .....	13	80,517	82,605	<	<	70,333	66,696
Nonmetallic minerals, except fuels .....	14	54,874	54,208	<	<	<	<
Construction							
General building contractors .....	15	51,804	<	<	<	50,760	52,313
Heavy construction, excluding building .....	16	56,921	<	<	<	<	56,930
Special trade contractors .....	17	54,986	51,737	<	<	62,740	54,478
Total manufacturing							
Food and kindred products .....	20	57,714	47,681	57,500	56,164	61,550	62,745
Tobacco products .....	21	63,727	<	<	<	<	63,727
Textile mill products .....	22	54,362	53,280	<	<	64,140	53,915
Apparel and other textile products .....	23	58,236	<	<	<	60,650	57,382
Lumber and wood products .....	24	51,778	<	<	48,097	58,940	58,321
Furniture and fixtures .....	25	54,824	<	<	<	61,970	51,704
Paper and allied products .....	26	59,293	61,484	<	52,060	<	59,091
Printing and publishing .....	27	57,462	<	57,520	<	53,240	58,556
Chemicals and allied products .....	28	62,430	59,948	76,170	66,665	62,613	63,534
Petroleum and coal products .....	29	65,584	64,732	<	<	64,200	66,151
Rubber and misc. plastics products .....	30	56,311	55,865	<	<	62,040	55,621
Leather and leather products .....	31	53,094	<	<	<	48,080	55,100
Stone, clay and glass products .....	32	54,975	52,997	<	<	59,370	55,675
Primary metal industries .....	33	59,036	58,130	56,090	<	57,780	59,784
Fabricated metal products .....	34	55,391	54,314	<	<	64,220	54,519
Industrial machinery and equipment .....	35	74,768	64,482	60,610	<	74,700	75,091
Electronic & other electric equipment .....	36	72,190	60,949	63,671	<	69,220	72,794
Transportation equipment .....	37	66,411	58,973	58,437	<	74,360	68,007
Instruments and related products .....	38	69,302	60,588	63,583	53,106	63,800	70,923
Miscellaneous manufacturing industries .....	39	58,070	56,560	<	<	52,520	59,216
Transportation, communications, and utilities							
Railroad transportation .....	40	66,467	<	58,360	<	66,160	67,934
Local and interurban transit .....	41	49,719	<	<	<	<	47,950
Trucking and warehousing .....	42	56,615	<	44,860	<	56,312	57,467
Water transportation .....	44	59,510	<	52,340	<	54,560	63,427
Transportation by air .....	45	60,600	49,830	48,040	<	61,460	63,513
Pipelines, except natural gas .....	46	68,220	<	<	<	<	68,220
Transportation services .....	47	52,298	<	43,360	<	48,220	53,332
Communications .....	48	63,448	65,140	49,840	<	64,691	63,724
Utilities and sanitary services .....	49	63,640	62,263	61,217	56,464	61,335	64,825

See explanatory information and SOURCE at end of table.

Table 14. Mean annual wages of employed scientists, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean annual wages (dollars)					
		Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
<b>Wholesale trade</b>							
Wholesale trade, durable goods .....	50	66,282	57,316	67,529	40,930	72,028	65,787
Wholesale trade, nondurable goods .....	51	60,225	57,578	68,166	59,010	57,070	61,943
<b>Retail trade</b>							
Building materials and garden supplies .....	52	60,233	<	<	<	37,680	60,797
General merchandise stores .....	53	53,941	<	40,690	<	41,010	56,214
Food stores .....	54	53,996	<	<	<	44,280	55,275
Automotive dealers and service stations .....	55	50,368	<	<	<	41,730	51,556
Apparel and accessory stores .....	56	55,842	<	<	<	50,190	57,401
Furniture and homefurnishings stores .....	57	61,385	<	<	<	48,330	61,837
Eating and drinking places .....	58	54,911	<	<	<	<	55,823
Misc. retail stores .....	59	60,292	<	54,870	<	52,520	62,122
<b>Finance, insurance, and real estate</b>							
Depository institutions .....	60	60,014	<	46,151	<	56,653	61,661
Nondepository institutions .....	61	60,510	<	52,989	<	54,111	61,890
Security and commodity brokers .....	62	69,649	<	60,993	<	66,796	70,799
Insurance carriers .....	63	61,697	<	65,654	67,868	49,386	62,140
Insurance agents, brokers, and service .....	64	59,912	<	71,333	<	55,810	58,838
Real estate .....	65	52,080	<	<	<	48,938	53,651
Holding and other investment offices .....	67	61,016	63,403	42,668	76,310	56,541	64,335
<b>Services</b>							
Hotels and other lodging places .....	70	48,379	<	<	<	<	48,379
Personal services .....	72	51,057	<	<	<	45,950	54,340
Business services .....	73	70,244	47,702	68,632	66,525	57,846	70,835
Auto repair, services, and parking .....	75	58,254	<	54,030	<	38,020	60,584
Misc. repair services .....	76	52,225	<	<	<	<	52,225
Motion pictures .....	78	62,030	<	<	<	54,760	62,376
Amusement and recreation services .....	79	45,312	<	<	<	40,100	51,428
Health services .....	80	56,029	73,622	54,033	54,198	55,894	56,288
Legal services .....	81	61,628	<	<	<	55,460	61,764
Educational services .....	82	51,584	42,154	48,451	46,707	55,079	50,077
Social services .....	83	43,426	<	45,723	59,863	42,284	47,697
Museums, botanical, zoological gardens .....	84	40,247	<	<	33,204	43,275	59,388
Membership organizations .....	86	50,883	43,800	54,286	46,201	47,754	53,604
Engineering and management services .....	87	60,752	54,949	62,107	61,266	47,589	68,316
Services, n.e.c. ....	89	60,953	52,828	77,398	48,500	45,972	65,005

See explanatory information and SOURCE at end of table.

Table 14. Mean annual wages of employed scientists, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean annual wages (dollars)					
		Total scientists	Physical scientists	Math scientists	Life scientists	Social scientists	Computer scientists
Public administration Federal, state, and local government .....	90	56,372	56,371	61,349	51,304	53,727	58,722

KEY: < = Too few cases to estimate.  
n.e.c. = Not elsewhere classified.  
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean annual wages have been calculated by multiplying mean hourly wages by a "full-time" figure of 2,080 hours. See Technical Notes for more detail. Includes wage information for industry/occupation groups for which employment estimates are unavailable.

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

Table 15. Mean hourly wages of employed engineers, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean hourly wages (dollars)								
		Engineers								
		Total	Aero-nautical	Civil	Electrical/electronics	Computer	Mechanical	Industrial	Sales	Other
Total.....		31.56	34.32	29.33	33.23	35.72	30.54	29.78	31.01	31.89
Agriculture, forestry, and fishing										
Agricultural services .....	07	27.36	<	25.84	<	<	26.64	<	<	30.81
Mining										
Metal mining .....	10	30.87	<	<	<	<	29.24	<	<	31.04
Coal mining .....	12	30.13	<	<	36.78	<	<	27.82	<	30.04
Oil and gas extraction .....	13	39.56	<	42.07	35.42	<	33.88	37.07	34.53	40.96
Nonmetallic minerals, except fuels .....	14	29.09	<	29.24	<	<	<	26.05	<	29.04
Construction										
General building contractors .....	15	28.71	<	27.96	36.35	<	34.52	26.22	28.75	28.47
Heavy construction, excluding building .....	16	32.40	<	32.09	35.37	<	37.02	33.75	29.48	29.58
Special trade contractors .....	17	29.28	<	27.80	30.15	18.60	30.95	33.15	29.77	24.26
Total manufacturing										
Food and kindred products .....	20	29.51	<	<	30.75	<	28.75	30.02	34.64	28.36
Tobacco products .....	21	<	<	<	<	<	<	<	<	<
Textile mill products .....	22	27.08	<	<	<	<	27.32	26.28	34.96	27.30
Apparel and other textile products .....	23	25.91	<	<	<	<	28.59	24.81	26.96	<
Lumber and wood products .....	24	25.75	<	22.32	<	<	25.22	26.38	26.01	24.29
Furniture and fixtures .....	25	26.77	<	<	<	<	26.65	27.09	25.13	23.92
Paper and allied products .....	26	32.14	<	33.93	32.25	<	31.15	33.23	32.28	31.07
Printing and publishing .....	27	28.17	<	<	29.95	30.42	27.25	28.40	<	27.14
Chemicals and allied products .....	28	32.46	<	33.95	33.21	34.97	30.91	31.92	31.82	32.83
Petroleum and coal products .....	29	34.93	<	32.81	34.60	<	34.08	32.77	29.54	36.53
Rubber and misc. plastics products .....	30	27.77	<	28.71	29.09	<	28.16	26.65	30.04	28.24
Leather and leather products .....	31	25.72	<	<	<	<	<	25.72	<	<
Stone, clay and glass products .....	32	28.28	<	27.02	30.02	<	28.87	26.16	28.69	29.68
Primary metal industries .....	33	28.78	<	28.17	31.29	31.28	29.21	27.97	28.50	28.45
Fabricated metal products .....	34	27.90	29.25	26.75	31.09	33.07	27.77	27.17	28.34	27.95
Industrial machinery and equipment .....	35	30.61	28.60	30.60	32.87	39.83	27.68	28.98	30.50	29.46
Electronic & other electric equipment .....	36	32.84	33.87	32.94	33.00	37.72	30.83	30.46	33.08	30.51
Transportation equipment .....	37	32.02	33.80	28.99	33.10	38.45	30.20	30.32	30.02	30.03
Instruments and related products .....	38	32.81	36.17	32.50	33.69	35.29	31.32	30.66	31.07	33.57
Miscellaneous manufacturing industries .....	39	28.05	<	27.89	28.62	31.40	28.24	27.11	29.13	27.60
Transportation, communications, and utilities										
Railroad transportation .....	40	29.79	<	31.74	31.81	<	<	<	<	29.55
Local and interurban transit .....	41	31.38	<	31.38	<	<	<	<	<	<
Trucking and warehousing .....	42	25.28	<	<	<	<	<	27.72	26.47	22.23
Water transportation .....	44	32.12	<	<	<	<	<	<	<	32.12
Transportation by air .....	45	27.51	27.43	28.18	31.31	<	30.15	27.08	39.18	23.08
Pipelines, except natural gas .....	46	35.31	<	40.23	27.75	<	33.07	35.02	<	35.69
Transportation services .....	47	28.63	<	<	<	33.37	30.95	22.39	<	24.45
Communications .....	48	30.34	<	28.63	30.36	30.75	30.94	28.99	30.77	25.26
Utilities and sanitary services .....	49	34.28	<	32.54	33.13	34.10	35.41	35.71	29.59	35.30

See explanatory information and SOURCE at end of table.

Table 15. Mean hourly wages of employed engineers, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean hourly wages (dollars)								
		Engineers								
		Total	Aero-nautical	Civil	Electrical/electronics	Computer	Mechanical	Industrial	Sales	Other
<b>Wholesale trade</b>										
Wholesale trade, durable goods .....	50	31.41	34.48	28.27	35.20	33.40	30.50	28.53	30.56	29.48
Wholesale trade, nondurable goods .....	51	29.58	<	<	36.40	30.02	28.98	30.54	25.96	33.11
<b>Retail trade</b>										
Building materials and garden supplies .....	52	27.90	<	<	<	<	27.90	<	<	<
General merchandise stores .....	53	27.92	<	16.79	<	<	30.24	<	<	<
Food stores .....	54	23.31	<	<	<	<	23.31	<	<	<
Automotive dealers and service stations .....	55	21.76	<	<	<	<	<	<	21.76	<
Furniture and homefurnishings stores .....	57	27.80	<	<	<	29.55	<	30.25	27.29	<
Misc. retail stores .....	59	27.74	<	<	<	27.43	30.10	30.16	25.17	<
<b>Finance, insurance, and real estate</b>										
Depository institutions .....	60	29.66	<	<	34.67	32.22	<	<	22.86	<
Nondepository institutions .....	61	38.49	<	<	38.49	<	<	<	<	<
Security and commodity brokers .....	62	35.75	<	<	<	36.54	<	<	<	<
Insurance carriers .....	63	29.81	<	<	30.14	<	33.49	33.45	<	29.12
Insurance agents, brokers, and service .....	64	28.78	<	<	<	<	<	<	<	28.78
Real estate .....	65	26.80	<	28.03	<	<	<	25.78	23.41	<
Holding and other investment offices .....	67	31.09	<	24.72	33.13	37.16	27.14	38.59	33.34	24.53
<b>Services</b>										
Hotels and other lodging places .....	70	22.76	<	25.57	<	<	<	25.26	18.96	15.00
Personal services .....	72	32.34	<	<	<	<	31.93	<	<	<
Business services .....	73	34.44	42.78	33.14	35.04	36.10	29.01	36.27	34.64	32.61
Auto repair, services, and parking .....	75	23.44	<	<	<	28.88	<	27.73	21.70	<
Misc. repair services .....	76	28.01	<	<	31.38	28.36	31.10	26.91	22.08	33.98
Motion pictures .....	78	31.42	<	<	34.36	37.56	29.68	<	25.81	<
Amusement and recreation services .....	79	34.58	<	<	<	<	<	41.40	<	19.56
Health services .....	80	24.46	<	25.91	<	27.01	27.19	27.09	27.73	23.91
Educational services .....	82	24.35	<	24.55	<	26.96	26.21	21.17	21.15	24.97
Social services .....	83	<	<	<	<	<	<	<	<	<
Museums, botanical, zoological gardens .....	84	22.76	<	<	<	<	<	<	<	22.76
Membership organizations .....	86	30.34	<	29.19	<	34.11	24.01	31.42	<	<
Engineering and management services .....	87	31.71	36.63	29.52	32.33	34.15	31.14	32.25	33.41	32.65
Services, n.e.c. ....	89	29.40	<	29.78	<	<	<	34.51	19.42	30.61

See explanatory information and SOURCE at end of table.

Table 15. Mean hourly wages of employed engineers, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean hourly wages (dollars)								
		Engineers								
		Total	Aero-nautical	Civil	Electrical/electronics	Computer	Mechanical	Industrial	Sales	Other
Public administration Federal, state, and local government .....	90	30.90	37.09	28.52	34.35	34.52	29.60	32.19	<	30.49

KEY: < = Too few cases to estimate.  
n.e.c. = Not elsewhere classified.  
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean hourly wages are calculated from the mean values of 11 wage intervals, using data from the BLS National Compensation Survey. See Technical Notes for more detail. Includes wage information for industry/occupation combinations for which employment estimates are unavailable.

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

Table 16. Mean annual wages of employed engineers, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean annual wages (dollars)								
		Engineers								
		Total	Aero-nautical	Civil	Computer	Electrical/electronics	Industrial	Mechanical	Sales	Other
Total.....		65,654	71,380	61,000	74,310	69,115	61,940	63,530	64,490	66,330
Agriculture, forestry, and fishing										
Agricultural services .....	07	56,917	<	53,750	<	<	<	55,420	<	64,080
Mining										
Metal mining .....	10	64,207	<	<	<	<	<	60,820	<	64,559
Coal mining .....	12	62,674	<	<	<	76,500	57,860	<	<	62,477
Oil and gas extraction .....	13	82,287	<	87,510	<	73,663	77,100	70,460	71,820	85,183
Nonmetallic minerals, except fuels .....	14	60,501	<	60,820	<	<	54,170	<	<	60,401
Construction										
General building contractors .....	15	59,722	<	58,150	<	75,600	54,540	71,800	59,810	59,225
Heavy construction, excluding building .....	16	67,402	<	66,750	<	73,582	70,190	77,000	61,330	61,525
Special trade contractors .....	17	60,899	<	57,820	38,680	62,705	68,940	64,370	61,920	50,463
Total manufacturing										
Food and kindred products .....	20	61,383	<	<	<	63,970	62,440	59,800	72,060	58,985
Tobacco products .....	21	<	<	<	<	<	<	<	<	<
Textile mill products .....	22	56,321	<	<	<	<	54,650	56,830	72,710	56,773
Apparel and other textile products .....	23	53,904	<	<	<	<	51,610	59,460	56,080	<
Lumber and wood products .....	24	53,565	<	46,420	<	<	54,870	52,460	54,100	50,515
Furniture and fixtures .....	25	55,676	<	<	<	<	56,340	55,420	52,270	49,753
Paper and allied products .....	26	66,856	<	70,580	<	67,070	69,110	64,800	67,130	64,633
Printing and publishing .....	27	58,597	<	<	63,270	62,300	59,080	56,670	<	56,448
Chemicals and allied products .....	28	67,521	<	70,620	72,740	69,084	66,380	64,290	66,190	68,298
Petroleum and coal products .....	29	72,653	<	68,250	<	71,972	68,150	70,890	61,450	75,972
Rubber and misc. plastics products .....	30	57,761	<	59,710	<	60,500	55,430	58,560	62,470	58,732
Leather and leather products .....	31	53,490	<	<	<	<	53,490	<	<	<
Stone, clay and glass products .....	32	58,821	<	56,190	<	62,444	54,410	60,040	59,680	61,727
Primary metal industries .....	33	59,869	<	58,590	65,070	65,088	58,180	60,770	59,280	59,177
Fabricated metal products .....	34	58,021	60,830	55,650	68,790	64,667	56,520	57,750	58,960	58,137
Industrial machinery and equipment .....	35	63,667	59,480	63,650	82,840	68,379	60,270	57,570	63,440	61,284
Electronic & other electric equipment .....	36	68,306	70,450	68,520	78,450	68,640	63,350	64,120	68,810	63,468
Transportation equipment .....	37	66,596	70,310	60,300	79,980	68,854	63,070	62,820	62,440	62,456
Instruments and related products .....	38	68,236	75,230	67,590	73,400	70,073	63,780	65,150	64,630	69,823
Miscellaneous manufacturing industries .....	39	58,334	<	58,020	65,300	59,535	56,390	58,730	60,590	57,423
Transportation, communications, and utilities										
Railroad transportation .....	40	61,960	<	66,020	<	66,160	<	<	<	61,461
Local and interurban transit .....	41	65,270	<	65,270	<	<	<	<	<	<
Trucking and warehousing .....	42	52,589	<	<	<	<	57,660	<	55,060	46,240
Water transportation .....	44	66,815	<	<	<	<	<	<	<	66,815
Transportation by air .....	45	57,223	57,060	58,610	<	65,130	56,330	62,720	81,490	48,006
Pipelines, except natural gas .....	46	73,445	<	83,670	<	57,720	72,840	68,780	<	74,237
Transportation services .....	47	59,548	<	<	69,410	<	46,560	64,380	<	50,866
Communications .....	48	63,096	<	59,560	63,950	63,148	60,310	64,350	63,990	52,539
Utilities and sanitary services .....	49	71,309	<	67,690	70,920	68,901	74,270	73,640	61,550	73,425

See explanatory information and SOURCE at end of table.



Table 16. Mean annual wages of employed engineers, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean annual wages (dollars)								
		Engineers								
		Total	Aero-nautical	Civil	Computer	Electrical/electronics	Industrial	Mechanical	Sales	Other
Wholesale trade										
Wholesale trade, durable goods .....	50	65,343	71,720	58,800	69,473	73,210	59,350	63,450	63,570	61,328
Wholesale trade, nondurable goods .....	51	61,528	<	<	62,444	75,710	63,530	60,270	54,000	68,855
Retail trade										
Building materials and garden supplies .....	52	58,020	<	<	<	<	<	58,020	<	<
General merchandise stores .....	53	58,076	<	34,920	<	<	<	62,900	<	<
Food stores .....	54	48,480	<	<	<	<	<	48,480	<	<
Automotive dealers and service stations .....	55	45,250	<	<	<	<	<	<	45,250	<
Furniture and homefurnishings stores .....	57	57,823	<	<	61,460	<	62,920	<	56,770	<
Misc. retail stores .....	59	57,698	<	<	57,043	<	62,740	62,600	52,340	<
Finance, insurance, and real estate										
Depository institutions .....	60	61,695	<	<	67,030	72,110	<	<	47,560	<
Nondepository institutions .....	61	80,050	<	<	<	80,050	<	<	<	<
Security and commodity brokers .....	62	74,368	<	<	76,000	<	<	<	<	<
Insurance carriers .....	63	62,007	<	<	<	62,700	69,570	69,660	<	60,570
Insurance agents, brokers, and service .....	64	59,870	<	<	<	<	<	<	<	59,870
Real estate .....	65	55,741	<	58,300	<	<	53,620	<	48,680	<
Holding and other investment offices .....	67	64,672	<	51,410	77,290	68,900	80,270	56,450	69,340	51,017
Services										
Hotels and other lodging places .....	70	47,340	<	53,180	<	<	52,550	<	39,430	31,200
Personal services .....	72	67,265	<	<	<	<	<	66,410	<	<
Business services .....	73	71,622	88,980	68,940	75,085	72,880	75,430	60,340	72,050	67,824
Auto repair, services, and parking .....	75	48,751	<	<	60,080	<	57,680	<	45,140	<
Misc. repair services .....	76	58,270	<	<	58,992	65,260	55,980	64,690	45,930	70,680
Motion pictures .....	78	65,365	<	<	78,128	71,470	<	61,740	53,690	<
Amusement and recreation services .....	79	71,926	<	<	<	<	86,110	<	<	40,680
Health services .....	80	50,879	<	53,900	56,190	<	56,340	56,550	57,670	49,740
Educational services .....	82	50,653	<	51,070	56,074	<	44,030	54,520	44,000	51,931
Social services .....	83	<	<	<	<	<	<	<	<	<
Museums, botanical, zoological gardens .....	84	47,350	<	<	<	<	<	<	<	47,350
Membership organizations .....	86	63,106	<	60,720	70,950	<	65,350	49,930	<	<
Engineering and management services .....	87	65,945	76,190	61,390	71,028	67,240	67,080	64,770	69,490	67,905
Services, n.e.c. ....	89	61,153	<	61,930	<	<	71,780	<	40,400	63,667

See explanatory information and SOURCE at end of table.

Table 16. Mean annual wages of employed engineers, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean annual wages (dollars)								
		Engineers								
		Total	Aero-nautical	Civil	Computer	Electrical/electronics	Industrial	Mechanical	Sales	Other
Public administration Federal, state, and local government .....	90	64,277	77,140	59,330	71,800	71,460	66,950	61,570	<	63,425

KEY: < = Too few cases to estimate.  
n.e.c. = Not elsewhere classified.  
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean annual wages have been calculated by multiplying mean hourly wages by a "full-time" figure of 2,080 hours. Since the annual figures are calculated directly from the hourly figures, the relative standard error has not been calculated separately for the mean annual wages entries. See Technical Notes for more detail.  
Includes wage information for industry/occupation groups for which employment estimates are unavailable.

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

Table 17. Mean hourly wages of employed technicians, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean hourly wages (dollars)								
		Total	Computer programmers	Drafters	Science <sup>1</sup>	Engineering technicians				
						Total	Electrical/electronic	Mechanical	Civil	Other
Total.....		22.57	29.77	19.48	17.61	19.99	20.78	20.51	18.54	19.65
Agriculture, forestry, and fishing										
Agricultural services .....	07	15.11	<	17.70	12.98	<	<	<	<	<
Mining										
Metal mining .....	10	20.13	<	<	19.09	20.68	21.48	<	18.95	20.84
Coal mining .....	12	21.85	<	<	25.67	19.55	<	<	<	19.41
Oil and gas extraction .....	13	22.47	33.28	<	21.66	20.83	20.71	22.66	24.60	19.81
Nonmetallic minerals, except fuels .....	14	19.21	27.78	<	17.65	18.68	<	<	<	18.68
Construction										
General building contractors .....	15	19.70	29.81	18.54	<	20.49	22.04	21.13	21.63	19.48
Heavy construction, excluding building .....	16	20.09	35.42	21.41	<	18.22	19.11	17.45	17.75	18.31
Special trade contractors .....	17	20.35	25.44	20.34	15.47	19.64	18.22	21.70	20.61	20.07
Total manufacturing										
Food and kindred products .....	20	18.04	26.16	19.06	15.61	20.44	19.33	21.13	<	20.23
Tobacco products .....	21	23.32	23.41	<	<	<	<	<	<	<
Textile mill products .....	22	18.67	25.19	<	14.27	17.46	18.72	19.20	<	16.94
Apparel and other textile products .....	23	22.87	25.98	<	18.05	18.69	<	19.77	<	18.21
Lumber and wood products .....	24	18.92	23.58	17.64	17.58	18.85	20.14	20.61	<	18.31
Furniture and fixtures .....	25	19.44	21.95	18.05	<	17.90	<	18.19	<	17.83
Paper and allied products .....	26	22.20	26.85	19.69	18.71	22.48	23.16	21.74	<	22.50
Printing and publishing .....	27	24.79	26.21	<	<	18.61	20.49	<	<	17.94
Chemicals and allied products .....	28	20.45	28.55	20.68	19.62	21.50	21.11	20.37	<	22.29
Petroleum and coal products .....	29	23.24	29.09	22.72	21.49	25.18	23.83	24.25	<	26.36
Rubber and misc. plastics products .....	30	19.21	22.07	20.05	16.09	18.94	20.02	19.82	<	17.90
Leather and leather products .....	31	23.85	28.02	<	19.49	<	<	<	<	<
Stone, clay and glass products .....	32	19.13	26.52	18.16	17.28	19.11	19.72	18.72	18.36	18.88
Primary metal industries .....	33	19.77	22.11	19.41	18.25	19.84	21.04	19.83	<	18.60
Fabricated metal products .....	34	19.28	20.98	18.42	18.01	19.68	20.55	20.17	18.18	18.91
Industrial machinery and equipment .....	35	22.09	27.18	19.27	18.68	19.85	19.80	19.33	16.77	20.56
Electronic & other electric equipment .....	36	19.47	27.91	19.96	16.63	18.64	18.19	21.20	24.22	19.36
Transportation equipment .....	37	23.53	25.99	22.96	22.66	23.14	21.16	20.56	<	24.66
Instruments and related products .....	38	21.10	28.40	21.02	19.58	20.24	19.97	20.22	23.08	20.96
Miscellaneous manufacturing industries .....	39	19.62	23.42	18.73	16.60	18.36	17.91	19.04	<	18.49

See explanatory information and SOURCE at end of table.

Table 17. Mean hourly wages of employed technicians, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean hourly wages (dollars)								
		Total	Computer programmers	Drafters	Science <sup>1</sup>	Engineering technicians				
						Total	Electrical/electronic	Mechanical	Civil	Other
Transportation, communications, and utilities										
Railroad transportation .....	40	21.31	29.76	<	<	20.91	24.17	<	<	20.75
Local and interurban transit .....	41	17.10	28.46	<	<	14.61	<	<	<	14.61
Trucking and warehousing .....	42	21.87	25.70	<	<	15.65	18.53	<	<	15.33
Water transportation .....	44	28.20	31.87	<	<	22.78	<	<	<	22.78
Transportation by air .....	45	24.90	28.35	<	<	23.40	22.50	18.35	<	23.51
Pipelines, except natural gas .....	46	27.86	33.85	<	23.97	27.78	26.69	<	<	<
Transportation services .....	47	21.66	25.77	<	<	16.22	22.05	<	<	15.84
Communications .....	48	19.74	29.23	20.92	<	18.88	23.51	24.04	24.88	15.44
Utilities and sanitary services .....	49	25.27	29.22	25.18	25.87	24.22	25.12	25.83	24.02	22.94
Wholesale trade										
Wholesale trade, durable goods .....	50	25.62	32.05	18.82	15.42	20.54	20.70	20.31	14.54	18.14
Wholesale trade, nondurable goods .....	51	24.05	29.19	21.04	16.34	20.61	19.94	20.59	<	22.36
Retail trade										
Building materials and garden supplies .....	52	19.83	26.15	17.94	<	<	<	<	<	<
General merchandise stores .....	53	20.56	21.36	20.19	<	16.34	16.47	17.41	<	13.64
Food stores .....	54	23.42	23.82	18.05	<	<	<	<	<	<
Automotive dealers and service stations .....	55	21.33	27.15	<	<	15.61	18.83	17.59	<	12.44
Apparel and accessory stores .....	56	26.46	27.27	20.00	<	<	<	<	<	<
Furniture and homefurnishings stores .....	57	25.88	26.83	25.32	<	17.20	18.51	<	<	13.77
Eating and drinking places .....	58	26.09	26.09	<	<	<	<	<	<	<
Misc. retail stores .....	59	27.59	28.52	24.88	<	16.47	16.08	<	<	17.09
Finance, insurance, and real estate										
Depository institutions .....	60	29.50	29.50	<	<	<	<	<	<	<
Nondepository institutions .....	61	30.48	30.48	<	<	<	<	<	<	<
Security and commodity brokers .....	62	34.31	34.40	<	<	18.97	<	<	<	18.97
Insurance carriers .....	63	28.40	28.57	<	26.02	16.02	<	<	<	16.02
Insurance agents, brokers, and service .....	64	27.70	27.84	<	16.21	<	<	<	<	<
Real estate .....	65	23.97	29.70	21.97	<	17.91	18.02	<	19.25	17.71
Holding and other investment offices .....	67	25.87	29.52	<	17.84	17.97	21.29	<	<	16.20

See explanatory information and SOURCE at end of table.

Table 17. Mean hourly wages of employed technicians, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean hourly wages (dollars)								
		Total	Computer programmers	Drafters	Science <sup>1</sup>	Engineering technicians				
						Total	Electrical/electronic	Mechanical	Civil	Other
Services										
Hotels and other lodging places .....	70	17.97	25.97	<	<	16.60	19.57	<	<	16.11
Personal services .....	72	25.75	26.49	<	<	<	<	<	<	<
Business services .....	73	30.09	32.02	21.58	17.27	20.75	19.13	20.37	13.55	23.03
Auto repair, services, and parking .....	75	20.22	27.43	28.42	<	11.21	19.74	<	<	9.71
Misc. repair services .....	76	18.21	<	19.27	<	18.08	18.10	<	<	17.70
Motion pictures .....	78	20.72	25.12	<	<	20.03	24.92	<	<	19.49
Amusement and recreation services .....	79	18.44	27.98	<	<	16.70	19.87	<	<	16.30
Health services .....	80	21.60	26.20	20.25	14.45	17.79	20.06	20.32	<	15.36
Legal services .....	81	29.17	29.17	<	<	<	<	<	<	<
Educational services .....	82	19.94	22.94	16.69	14.48	16.06	17.71	18.12	18.39	15.73
Social services .....	83	20.63	20.84	<	13.86	<	<	<	<	<
Museums, botanical, zoological gardens .....	84	17.67	25.86	<	<	15.11	18.18	<	<	14.63
Membership organizations .....	86	23.02	25.92	<	15.39	15.39	<	<	<	15.39
Engineering and management services .....	87	18.97	29.58	18.68	16.14	18.21	20.84	20.89	18.48	17.11
Services, n.e.c. ....	89	20.82	32.82	19.77	17.19	17.52	18.69	<	15.54	17.56
Public administration										
Federal, state, and local government .....	90	19.78	24.24	19.68	16.42	20.41	22.82	21.28	18.13	20.89

<sup>1</sup>The classification "science technicians" includes biological, agricultural, and food technicians and technologists, except health; chemical technicians and technologists, except health; nuclear technicians and technologists; petroleum technicians and technologists; all other physical and life science technicians and technologists; and mathematical technicians.

KEY: < = Too few cases to estimate.  
n.e.c. = Not elsewhere classified.  
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean hourly wages are calculated from the mean values of 11 wage intervals, using data from the BLS National Compensation Survey. See Technical Notes for more detail. Includes wage information for industry/occupation combinations for which employment estimates are unavailable.

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

Table 18. Mean annual wages of employed technicians, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean annual wages (dollars)								
		Total	Computer programmers	Drafters	Science <sup>1</sup>	Engineering technicians				
						Total	Electrical/electronic	Mechanical	Civil	Other
Total.....		46,955	61,932	40,510	36,620	41,575	43,220	42,650	38,550	40,875
Agriculture, forestry, and fishing										
Agricultural services .....	07	31,427	<	36,820	27,002	<	<	<	<	<
Mining										
Metal mining .....	10	41,876	<	<	39,718	43,009	44,680	<	39,410	43,354
Coal mining .....	12	45,456	<	<	53,400	40,657	<	<	<	40,372
Oil and gas extraction .....	13	46,746	69,220	<	45,054	43,324	43,091	47,130	51,160	41,199
Nonmetallic minerals, except fuels .....	14	39,961	57,780	<	36,716	38,863	<	<	<	38,863
Construction										
General building contractors .....	15	40,978	62,010	38,570	<	42,607	45,850	43,950	44,990	40,518
Heavy construction, excluding building .....	16	41,801	73,680	44,535	<	37,910	39,740	36,300	36,910	38,088
Special trade contractors .....	17	42,330	52,920	42,304	32,178	40,850	37,900	45,140	42,870	41,738
Total manufacturing										
Food and kindred products .....	20	37,533	54,410	39,650	32,472	42,521	40,200	43,950	<	42,080
Tobacco products .....	21	48,485	48,680	<	<	<	<	<	<	<
Textile mill products .....	22	38,833	52,390	<	29,690	36,320	38,940	39,930	<	35,240
Apparel and other textile products .....	23	47,561	54,030	<	37,550	38,873	<	41,130	<	37,870
Lumber and wood products .....	24	39,343	49,039	36,688	36,557	39,209	41,890	42,880	<	38,090
Furniture and fixtures .....	25	40,442	45,660	37,544	<	37,225	<	37,830	<	37,080
Paper and allied products .....	26	46,170	55,850	40,950	38,906	46,765	48,180	45,230	<	46,790
Printing and publishing .....	27	51,564	54,510	<	<	38,716	42,622	<	<	37,317
Chemicals and allied products .....	28	42,532	59,380	43,013	40,811	44,726	43,910	42,370	<	46,358
Petroleum and coal products .....	29	48,346	60,510	47,250	44,697	52,388	49,580	50,440	<	54,832
Rubber and misc. plastics products .....	30	39,957	45,894	41,687	33,478	39,391	41,645	41,220	<	37,243
Leather and leather products .....	31	49,606	58,270	<	40,550	<	<	<	<	<
Stone, clay and glass products .....	32	39,801	55,150	37,786	35,944	39,741	41,018	38,930	38,190	39,280
Primary metal industries .....	33	41,111	45,977	40,382	37,947	41,260	43,761	41,240	<	38,691
Fabricated metal products .....	34	40,099	43,641	38,322	37,459	40,939	42,745	41,960	37,820	39,337
Industrial machinery and equipment .....	35	45,947	56,532	40,075	38,851	41,284	41,170	40,200	34,890	42,755
Electronic & other electric equipment .....	36	40,502	58,060	41,528	34,600	38,764	37,824	44,100	50,380	40,282
Transportation equipment .....	37	48,933	54,057	47,752	47,124	48,133	44,013	42,760	<	51,299
Instruments and related products .....	38	43,882	59,064	43,727	40,730	42,110	41,534	42,060	48,000	43,589
Miscellaneous manufacturing industries .....	39	40,808	48,705	38,952	34,531	38,182	37,255	39,590	<	38,476

See explanatory information and SOURCE at end of table.

Table 18. Mean annual wages of employed technicians, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean annual wages (dollars)								
		Total	Computer programmers	Drafters	Science <sup>1</sup>	Engineering technicians				
						Total	Electrical/electronic	Mechanical	Civil	Other
Transportation, communications, and utilities										
Railroad transportation .....	40	44,318	61,900	<	<	43,493	50,270	<	<	43,159
Local and interurban transit .....	41	35,553	59,200	<	<	30,380	<	<	<	30,380
Trucking and warehousing .....	42	45,487	53,460	<	<	32,554	38,530	<	<	31,890
Water transportation .....	44	58,656	66,290	<	<	47,370	<	<	<	47,370
Transportation by air .....	45	51,788	58,970	<	<	48,669	46,800	38,160	<	48,889
Pipelines, except natural gas .....	46	57,945	70,400	<	49,850	57,778	55,520	<	<	<
Transportation services .....	47	45,053	53,600	<	<	33,729	45,870	<	<	32,952
Communications .....	48	41,054	60,800	43,521	<	39,274	48,900	50,010	51,760	32,120
Utilities and sanitary services .....	49	52,565	60,770	52,365	53,805	50,386	52,256	53,730	49,960	47,711
Wholesale trade										
Wholesale trade, durable goods .....	50	53,299	66,664	39,147	32,079	42,740	43,070	42,250	30,240	37,730
Wholesale trade, nondurable goods .....	51	50,020	60,700	43,765	33,979	42,877	41,464	42,830	<	46,520
Retail trade										
Building materials and garden supplies .....	52	41,248	54,400	37,320	<	<	<	<	<	<
General merchandise stores .....	53	42,767	44,430	41,990	<	33,983	34,250	36,220	<	28,360
Food stores .....	54	48,710	49,550	37,550	<	<	<	<	<	<
Automotive dealers and service stations .....	55	44,353	56,460	<	<	32,465	39,170	36,580	<	25,870
Apparel and accessory stores .....	56	55,040	56,720	41,600	<	<	<	<	<	<
Furniture and homefurnishings stores .....	57	53,842	55,810	52,660	<	35,778	38,507	<	<	28,640
Eating and drinking places .....	58	54,260	54,260	<	<	<	<	<	<	<
Misc. retail stores .....	59	57,389	59,330	51,760	<	34,263	33,440	<	<	35,556
Finance, insurance, and real estate										
Depository institutions .....	60	61,360	61,360	<	<	<	<	<	<	<
Nondepository institutions .....	61	63,400	63,400	<	<	<	<	<	<	<
Security and commodity brokers .....	62	71,354	71,550	<	<	39,460	<	<	<	39,460
Insurance carriers .....	63	59,067	59,420	<	54,120	33,324	<	<	<	33,324
Insurance agents, brokers, and service .....	64	57,628	57,920	<	33,720	<	<	<	<	<
Real estate .....	65	49,868	61,780	45,697	<	37,245	37,490	<	40,040	36,825
Holding and other investment offices .....	67	53,799	61,390	<	37,099	37,370	44,290	<	<	33,692

See explanatory information and SOURCE at end of table.

Table 18. Mean annual wages of employed technicians, by broad industry group of employment and detailed occupation: 2001

Broad industry group of employment	SIC	Mean annual wages (dollars)								
		Total	Computer programmers	Drafters	Science <sup>1</sup>	Engineering technicians				
						Total	Electrical/electronic	Mechanical	Civil	Other
Services										
Hotels and other lodging places .....	70	37,378	54,020	<	<	34,520	40,712	<	<	33,500
Personal services .....	72	53,573	55,110	<	<	<	<	<	<	<
Business services .....	73	62,580	66,589	44,879	35,932	43,158	39,791	42,360	28,180	47,913
Auto repair, services, and parking .....	75	42,054	57,060	59,119	<	23,329	41,060	<	<	20,200
Misc. repair services .....	76	37,875	<	40,081	<	37,600	37,647	<	<	36,814
Motion pictures .....	78	43,096	52,240	<	<	41,650	51,840	<	<	40,537
Amusement and recreation services .....	79	38,360	58,200	<	<	34,737	41,340	<	<	33,910
Health services .....	80	44,931	54,490	42,120	30,058	36,996	41,715	42,260	<	31,961
Legal services .....	81	60,670	60,670	<	<	<	<	<	<	<
Educational services .....	82	41,469	47,710	34,722	30,108	33,397	36,830	37,690	38,260	32,716
Social services .....	83	42,912	43,350	<	28,820	<	<	<	<	<
Museums, botanical, zoological gardens .....	84	36,748	53,780	<	<	31,436	37,810	<	<	30,440
Membership organizations .....	86	47,883	53,910	<	32,025	32,009	<	<	<	32,009
Engineering and management services .....	87	39,449	61,540	38,846	33,578	37,868	43,357	43,450	38,440	35,575
Services, n.e.c. ....	89	43,298	68,270	41,120	35,763	36,438	38,870	<	32,320	36,532
Public administration										
Federal, state, and local government .....	90	41,145	50,420	40,918	34,153	42,443	47,464	44,260	37,710	43,451

<sup>1</sup>The classification "science technicians" includes biological, agricultural, and food technicians and technologists, except health; chemical technicians and technologists, except health; nuclear technicians and technologists; petroleum technicians and technologists; all other physical and life science technicians and technologists; and mathematical technicians.

KEY: < = Too few cases to estimate.  
n.e.c. = Not elsewhere classified.  
SIC = Standard Industrial Classification. See Technical Notes for explanation.

NOTE: Mean annual wages have been calculated by multiplying mean hourly wages by a "full-time" figure of 2,080 hours. See Technical Notes for more detail. Includes wage information for industry/occupation groups for which employment estimates are unavailable.

SOURCE: National Science Foundation/Division of Science Resources Statistics, using data from U.S. Department of Labor/Bureau of Labor Statistics, Occupational Employment Statistics Survey estimates for 2-digit and 3-digit SIC industry groups.



Table 19. Mean and median hourly wages of employed scientists, engineers, and technicians (SETs), by detailed occupational classification: 2001

Detailed occupation	SOC code	Total filled positions	Hourly wages (dollars)		Relative standard error <sup>1</sup>
			Mean	Median	
All SET occupations.....		5,580,000	29.40	(nc)	1
Managers of scientific and technical personnel .....		524,700	41.28	(nc)	1
Computer and information systems managers .....	11-3021	267,300	40.33	39.65	<
Engineering managers .....	11-9041	214,800	42.74	42.06	<
Natural sciences managers .....	11-9121	42,700	39.88	38.66	<
Scientists .....		2,157,300	30.46	(nc)	1
Computer scientists .....		1,451,000	32.02	(nc)	1
Computer and information scientists, research .....	15-1011	25,600	37.01	36.12	<
Computer software, applications .....	15-1031	361,700	34.79	33.76	<
Computer software, systems .....	15-1032	261,500	35.81	35.23	<
Computer systems analysts .....	15-1051	448,300	30.63	29.80	<
Network and computer systems administrators .....	15-1071	227,800	27.14	25.85	<
Network systems/data communications analysts .....	15-1081	126,100	28.99	27.63	<
Life scientists .....		131,700	27.06	(nc)	1
Agricultural scientists .....	19-1010	13,500	25.15	23.28	<
Biochemists and biophysicists .....	19-1021	16,100	29.66	27.45	1
Conservation scientists .....	19-1031	12,800	23.78	23.54	<
Epidemiologists .....	19-1041	4,000	26.72	25.34	<
Foresters .....	19-1032	10,500	22.65	22.16	<
Medical scientists, except epidemiologists .....	19-1042	46,400	30.12	26.90	2
Microbiologists .....	19-1022	15,500	26.20	23.98	1
Zoologists and wildlife biologists .....	19-1023	13,000	22.79	22.22	<
Mathematical scientists .....		90,900	29.60	(nc)	<
Actuaries .....	15-2011	13,200	35.92	32.75	<
Mathematicians .....	15-2021	3,100	35.21	35.96	<
Operations and systems researchers and analysts .....	15-2031	57,500	28.49	26.67	1
Statisticians .....	15-2041	17,000	27.44	25.98	1
Physical scientists .....		199,600	27.70	(nc)	<
Astronomers .....	19-2011	900	36.73	37.29	<
Atmospheric and space scientists .....	19-2021	6,800	29.55	29.58	<
Chemists .....	19-2031	84,900	26.86	24.93	1
Environmental scientists and specialists, including health .....	19-2041	57,400	24.38	22.75	<
Geoscientists, except hydrologists and geographers .....	19-2042	23,000	30.83	28.01	<
Hydrologists .....	19-2043	7,300	28.16	27.11	<
Materials scientists .....	19-2032	8,400	31.18	30.17	<
Physicists .....	19-2012	10,900	40.26	40.23	<

See explanatory information and SOURCE at end of table.

Table 19. Mean and median hourly wages of employed scientists, engineers, and technicians (SETs), by detailed occupational classification: 2001

Detailed occupation	SOC code	Total filled positions	Hourly wages (dollars)		Relative standard error <sup>1</sup>
			Mean	Median	
Social scientists .....		284,200	26.24	(nc)	1
Anthropologists and archeologists .....	19-3091	4,200	20.10	18.70	<
Clinical, counseling, and school psychologists .....	19-3031	95,600	25.72	24.24	1
Economists .....	19-3011	13,400	34.78	32.24	1
Geographers .....	19-3092	800	24.10	23.28	<
Historians .....	19-3093	2,000	21.56	20.64	<
Industrial-Organizational psychologists .....	19-3032	1,400	33.63	31.74	<
Market research analysts .....	19-3021	108,900	27.99	25.70	1
Political scientists .....	19-3094	4,200	37.94	39.11	<
Sociologists .....	19-3041	1,800	27.19	26.38	<
Survey researchers .....	19-3022	20,700	15.70	11.17	1
Urban and regional planners .....	19-3051	31,100	24.24	23.33	<
Engineers .....		1,256,400	31.56	(nc)	1
Aeronautical .....	17-2011	74,400	34.32	33.83	<
Civil .....	17-2051	205,400	29.33	28.09	<
Computer .....	17-2061	67,600	35.72	34.40	<
Electrical/electronics .....		274,500	33.23	(nc)	<
Electrical .....	17-2071	151,300	32.99	32.16	<
Electronics .....	17-2072	123,200	33.52	32.86	<
Industrial .....	17-2112	161,500	29.78	29.22	<
Mechanical .....	17-2141	204,300	30.54	29.54	<
Sales .....	41-9031	82,900	31.01	28.71	<
Other engineers .....		185,800	31.89	(nc)	1
Agricultural .....	17-2021	2,600	26.11	23.59	<
Biomedical .....	17-2031	7,000	30.45	28.75	<
Chemical .....	17-2041	31,700	34.99	33.74	1
Environmental .....	17-2081	48,700	30.11	29.45	<
Marine .....	17-2121	4,900	32.18	32.12	<
Metallurgical/metallurgists .....	17-2131	22,900	30.21	29.45	<
Mining and geological .....	17-2151	6,100	31.43	29.89	<
Nuclear .....	17-2161	14,200	38.56	38.50	<
Petroleum .....	17-2171	11,400	39.33	39.14	<
Safety .....	17-2111	36,400	28.41	27.68	<

See explanatory information and SOURCE at end of table.

Table 19. Mean and median hourly wages of employed scientists, engineers, and technicians (SETs), by detailed occupational classification: 2001

Detailed occupation	SOC code	Total filled positions	Hourly wages (dollars)		Relative standard error <sup>1</sup>
			Mean	Median	
Technicians .....		1,641,700	22.57	(nc)	1
Computer, numerical tool, and process control programmers .....		522,400	29.77	(nc)	<
Computer programmers .....	15-1021	501,600	30.23	28.90	1
Numerical tool and process control programmers .....	51-4012	20,800	18.67	17.93	<
Drafters .....		207,600	19.48	(nc)	<
Architectural and civil drafters .....	17-3011	99,200	18.55	17.79	<
Electrical and electronics drafters .....	17-3012	39,300	20.77	19.27	<
Mechanical drafters .....	17-3013	69,200	20.07	19.05	<
Engineering technicians .....		593,100	19.99	(nc)	1
Aerospace engineering and operations technicians .....	17-3021	15,600	24.75	24.27	<
Civil engineering technicians .....	17-3022	85,900	18.54	17.98	<
Electronical/electronics engineering technicians .....	17-3023	220,800	20.78	20.26	<
Electro-mechanical technicians .....	17-3024	42,100	19.18	18.34	<
Environmental engineering technicians .....	17-3025	18,000	18.82	17.59	<
Industrial engineering technicians .....	17-3026	59,500	21.15	19.70	<
Mechanical engineering technicians .....	17-3027	54,400	20.51	19.67	<
All other engineering technicians .....		96,800	18.28	(nc)	1
Audio and video equipment technicians .....	27-4011	33,000	17.16	14.50	1
Broadcast technicians .....	27-4012	31,100	16.13	13.34	1
Traffic technicians .....	53-6041	5,100	16.41	15.11	<
Transportation inspectors .....	53-6051	27,700	22.37	22.75	1
Mathematical technicians .....	15-2019	1,700	21.35	17.58	<
Physical and life science technicians .....		197,900	17.59	(nc)	<
Agricultural and food science technicians .....	19-4011	17,300	14.30	13.24	<
Biological technicians .....	19-4021	43,600	16.36	15.52	<
Chemical technicians, except health .....	19-4031	71,000	18.20	17.40	<
Environmental science and protection technicians, including health .....	19-4091	25,800	17.62	16.68	<
Forensic science technicians .....	19-4092	6,700	19.38	18.45	<
Forest and conservation technicians .....	19-4093	16,400	15.44	14.64	<
Geological and petroleum technicians .....	19-4041	11,900	19.85	18.53	1
Nuclear technicians .....	19-4051	5,200	29.56	28.70	<
Surveying, cartographic, photogrammetric, and mapping technicians .....		118,900	17.57	(nc)	<
Cartographers and photogrammetrists .....	17-1021	7,800	20.84	19.95	<
Surveying and mapping technicians .....	17-3031	56,400	14.81	13.56	1
Surveyors .....	17-1022	54,700	19.96	18.87	1

<sup>1</sup>Relative standard error of the estimate of the mean hourly wage, expressed as a percentage.

KEY: < = The estimated actual value is less than 0.5 for percentages.  
(nc) = Not computed. Median wages available only for detailed occupations.  
SOC = Standard Occupational Classification. See Technical Notes for explanation.

NOTE: Wage data are derived entirely from total occupation estimates. Mean hourly wages are calculated from the mean values of 11 wage intervals, using data from the BLS National Compensation Survey. See Technical Notes for more detail.

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

Table 20. Mean and median annual wages of employed scientists, engineers, and technicians (SETs), by detailed occupational classification: 2001

Detailed occupation	SOC code	Total filled positions	Annual wages (dollars)	
			Mean	Median
All SET occupations.....		5,580,000	61,163	(nc)
Managers of scientific and technical personnel .....		524,700	85,863	(nc)
Computer and information systems managers .....	11-3021	267,300	83,890	82,480
Engineering managers .....	11-9041	214,800	88,900	87,490
Natural sciences managers .....	11-9121	42,700	82,940	80,420
Scientists .....		2,157,300	63,350	(nc)
Computer scientists .....		1,451,000	66,608	(nc)
Computer and information scientists, research .....	15-1011	25,600	76,970	75,130
Computer software, applications .....	15-1031	361,700	72,370	70,210
Computer software, systems .....	15-1032	261,500	74,490	73,280
Computer systems analysts .....	15-1051	448,300	63,710	61,990
Network and computer systems administrators .....	15-1071	227,800	56,440	53,770
Network systems/data communications analysts .....	15-1081	126,100	60,300	57,470
Life scientists .....		131,700	56,287	(nc)
Agricultural scientists .....	19-1010	13,500	52,310	48,420
Biochemists and biophysicists .....	19-1021	16,100	61,680	57,100
Conservation scientists .....	19-1031	12,800	49,460	48,970
Epidemiologists .....	19-1041	4,000	55,590	52,710
Foresters .....	19-1032	10,500	47,110	46,080
Medical scientists, except epidemiologists .....	19-1042	46,400	62,650	55,960
Microbiologists .....	19-1022	15,500	54,500	49,880
Zoologists and wildlife biologists .....	19-1023	13,000	47,400	46,210
Mathematical scientists .....		90,900	61,579	(nc)
Actuaries .....	15-2011	13,200	74,720	68,120
Mathematicians .....	15-2021	3,100	73,230	74,790
Operations and systems researchers and analysts .....	15-2031	57,500	59,270	55,470
Statisticians .....	15-2041	17,000	57,080	54,030
Physical scientists .....		199,600	57,616	(nc)
Astronomers .....	19-2011	900	76,390	77,570
Atmospheric and space scientists .....	19-2021	6,800	61,470	61,530
Chemists .....	19-2031	84,900	55,880	51,860
Environmental scientists and specialists, including health .....	19-2041	57,400	50,700	47,330
Geoscientists, except hydrologists and geographers .....	19-2042	23,000	64,120	58,270
Hydrologists .....	19-2043	7,300	58,570	56,390
Materials scientists .....	19-2032	8,400	64,850	62,750
Physicists .....	19-2012	10,900	83,750	83,670

See explanatory information and SOURCE at end of table.

Table 20. Mean and median annual wages of employed scientists, engineers, and technicians (SETs), by detailed occupational classification: 2001

Detailed occupation	SOC code	Total filled positions	Annual wages (dollars)	
			Mean	Median
Social scientists .....		284,200	54,582	(nc)
Anthropologists and archeologists .....	19-3091	4,200	41,800	38,890
Clinical, counseling, and school psychologists .....	19-3031	95,600	53,500	50,420
Economists .....	19-3011	13,400	72,350	67,050
Geographers .....	19-3092	800	50,130	48,430
Historians .....	19-3093	2,000	44,850	42,930
Industrial-Organizational psychologists .....	19-3032	1,400	69,950	66,010
Market research analysts .....	19-3021	108,900	58,230	53,450
Political scientists .....	19-3094	4,200	78,920	81,350
Sociologists .....	19-3041	1,800	56,560	54,860
Survey researchers .....	19-3022	20,700	32,660	23,230
Urban and regional planners .....	19-3051	31,100	50,430	48,530
Engineers .....		1,256,400	65,654	(nc)
Aeronautical .....	17-2011	74,400	71,380	70,370
Civil .....	17-2051	205,400	61,000	58,420
Computer .....	17-2061	67,600	74,310	71,560
Electrical/electronics .....		274,500	69,115	(nc)
Electrical .....	17-2071	151,300	68,630	66,890
Electronics .....	17-2072	123,200	69,710	68,350
Industrial .....	17-2112	161,500	61,940	60,770
Mechanical .....	17-2141	204,300	63,530	61,440
Sales .....	41-9031	82,900	64,490	59,720
Other engineers .....		185,800	66,330	(nc)
Agricultural .....	17-2021	2,600	54,300	49,070
Biomedical .....	17-2031	7,000	63,330	59,790
Chemical .....	17-2041	31,700	72,780	70,180
Environmental .....	17-2081	48,700	62,640	61,260
Marine .....	17-2121	4,900	66,940	66,810
Metallurgical/metallurgists .....	17-2131	22,900	62,840	61,260
Mining and geological .....	17-2151	6,100	65,370	62,170
Nuclear .....	17-2161	14,200	80,200	80,080
Petroleum .....	17-2171	11,400	81,800	81,420
Safety .....	17-2111	36,400	59,090	57,560

See explanatory information and SOURCE at end of table.

Table 20. Mean and median annual wages of employed scientists, engineers, and technicians (SETs), by detailed occupational classification: 2001

Detailed occupation	SOC code	Total filled positions	Annual wages (dollars)	
			Mean	Median
Technicians .....		1,641,700	46,955	(nc)
Computer, numerical tool, and process control programmers .....		522,400	61,932	(nc)
Computer programmers .....	15-1021	501,600	62,890	60,110
Numerical tool and process control programmers .....	51-4012	20,800	38,830	37,290
Drafters .....		207,600	40,510	(nc)
Architectural and civil drafters .....	17-3011	99,200	38,580	37,010
Electrical and electronics drafters .....	17-3012	39,300	43,200	40,070
Mechanical drafters .....	17-3013	69,200	41,750	39,610
Engineering technicians .....		593,100	41,575	(nc)
Aerospace engineering and operations technicians .....	17-3021	15,600	51,470	50,480
Civil engineering technicians .....	17-3022	85,900	38,550	37,410
Electronical/electronics engineering technicians .....	17-3023	220,800	43,220	42,130
Electro-mechanical technicians .....	17-3024	42,100	39,890	38,150
Environmental engineering technicians .....	17-3025	18,000	39,140	36,590
Industrial engineering technicians .....	17-3026	59,500	43,980	40,970
Mechanical engineering technicians .....	17-3027	54,400	42,650	40,910
All other engineering technicians .....		96,800	38,019	(nc)
Audio and video equipment technicians .....	27-4011	33,000	35,690	30,170
Broadcast technicians .....	27-4012	31,100	33,550	27,750
Traffic technicians .....	53-6041	5,100	34,140	31,440
Transportation inspectors .....	53-6051	27,700	46,530	47,330
Mathematical technicians .....	15-2019	1,700	44,410	36,570
Physical and life science technicians .....		197,900	36,584	(nc)
Agricultural and food science technicians .....	19-4011	17,300	29,750	27,530
Biological technicians .....	19-4021	43,600	34,030	32,280
Chemical technicians, except health .....	19-4031	71,000	37,850	36,200
Environmental science and protection technicians, including health .....	19-4091	25,800	36,650	34,690
Forensic science technicians .....	19-4092	6,700	40,300	38,370
Forest and conservation technicians .....	19-4093	16,400	32,110	30,440
Geological and petroleum technicians .....	19-4041	11,900	41,300	38,540
Nuclear technicians .....	19-4051	5,200	61,490	59,690
Surveying, cartographic, photogrammetric, and mapping technicians .....		118,900	36,552	(nc)
Cartographers and photogrammetrists .....	17-1021	7,800	43,350	41,500
Surveying and mapping technicians .....	17-3031	56,400	30,810	28,210
Surveyors .....	17-1022	54,700	41,510	39,250

KEY: (nc) = Not computed. Median wages available only for detailed occupations.  
 SOC = Standard Occupational Classification. See Technical Notes for explanation.

NOTE: Wage data are derived entirely from total occupation estimates. Mean annual wages have been calculated by multiplying mean hourly wages by a "full-time" figure of 2,080 hours. Since the annual figures are calculated directly from the hourly figures, the relative standard error has not been calculated separately for the mean annual wages entries. See Technical Notes for more detail.

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