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## ANALYSIS OF THE AMERICAN CHEMICAL SOCIETY'S 1996 COMPREHENSIVE SALARY AND EMPLOYMENT STATUS SURVEY

AMERICAN CHEMICAL SOCIETY
COMMITTEE ON ECONOMIC AND PROFESSIONAL AFFAIRS DEPARTMENT OF CAREER SERVICES

# SALARIES 1996 

# ANALYSIS OF THE AMERICAN CHEMICAL SOCIETY'S 1996 COMPREHENSIVE SALARY AND EMPLOYMENT STATUS SURVEY 



[^0]
## CONTENTS

## Page

Acknowledgments ..... iv
Summary and Comments ..... 1
Salaries ..... 1
Employment and Unemployment ..... 6
Technical Notes ..... 10
List of Tables ..... 12
Tables ..... 15
Survey Questionnaire ..... 37
Employment Information Resources ..... 43

## ACKNOWLEDGMENTS

This report presents abbreviated results of the 1996 ACS Comprehensive Salary and Employment Status Survey. A summary of the survey the preliminary findings was published in the July 29, 1996 issue of Chemical \& Engineering News.

The ACS Council Committee on Economic and Professional Affairs, chaired by James D. Burke, and its Subcommittee on Surveys, chaired by James Visintainer, planned and provided general oversight of the survey and its analysis in 1996. The committee expresses its gratitude to the approximately 10,000 respondents who provided a valuable service to the profession by completing the survey questionnaire.

Mary Jordan, Senior Research Analyst, conducted this year's survey and wrote the following summary.

Mary L. Funke, Head<br>Department of Career Services

The American Chemical Society's 1996 Comprehensive Salary and Employment Status Survey was conducted on an incomplete sample drawn from the membership database. The sample was inconsistent with the membership by significantly fewer from the Pacific Region, a larger proportion employed in industry, and a younger age concentration. Extensive cleaning of the data still resulted in data with a lower confidence level than in past surveys. Thus, Salaries 96 is an abbreviated version of the annual report. ${ }^{1}$

Measures have been taken to assure the quality of the sample in future years. The full report will resume in July 1997 with the completion of the 1997 survey.

## SUMMARY AND COMMENT

Data from the 1996 survey displayed few signals for any stabilizing of employment in the chemistry profession. Salaries of most full-time categories increased over last year, but lagged behind the inflation rate. Individuals who have remained with an employer for more than a year showed favorable increases in salary. Much of this disparity between lack of overall salary increases and growth of individual salaries, is due to the rapid and significant increases in the a) proportion of chemists experiencing unemployment between 1995 and 1996 and b) those reporting some period of unemployment during 1995.

## SALARIES ${ }^{2}$

Median incomes increased in current dollars between 1995 and 1996 for most chemists and all chemical engineers employed full-time. Chemical engineers at all degree levels gained income increases either even with or exceeding the rate of inflation. Chemists, on the other hand, showed little overall improvement. They fell behind the rate of inflation at the bachelor's and master's levels. Chemists at the doctorate level gained salary increases that essentially stayed even with the inflation rate.

[^1]
## Chemists

The rate of increase or decrease in median salary for chemists varied with the highest degree held. Bachelor chemists fell behind their 1995 level and decreased substantially from 1995 when calculated with the rate of inflation. Those chemists with master's degrees slightly gained in current dollars, but failed to keep pace with the rate of inflation. Chemists with doctorate degrees fared best of the chemists, but their increase scarcely outpaced the rate of inflation. As of March 1, 1996, median salaries for chemists were:

| Degree | Median <br> Salary | Change from 1995 <br> (current dollars) | Change from 19953 <br> (constant dollars) |
| :--- | :--- | :---: | ---: |
| Bachelor's | 45,000 | down $1.6 \%$ | down $3.4 \%$ |
| Master's | 53,600 | up $0.2 \%$ | down $2.6 \%$ |
| Doctorate | 68,000 | up $3.0 \%$ | up $0.2 \%$ |

## Chemical Engineers

For chemical engineers employed full-time, all degree-holders at least kept pace with inflation. Chemical engineers with bachelor's and master's degrees gained salary increases that showed considerable improvement in gains of constant dollar terms also. Median salaries for chemical engineers were:

| Degree | Median <br> Salary | Change from 1995 <br> (current dollars) | Change from 1995 <br> (constant dollars) |
| :--- | :--- | :---: | :---: |
| Bachelor's | 58,800 | up $5.9 \%$ | up $3.1 \%$ |
| Master's | 69,400 | up $4.2 \%$ | up $1.4 \%$ |
| Doctorate | 76,100 | up $2.8 \%$ | even |

## Academic Chemists

The greatest influences on academic salaries are academic rank, length of contract, school type and work function. Academic salaries are generally higher for full professors, those working in public institutions, those working in departments granting PhDs, and those in research.

[^2]Full professors gained salary increases in current dollars, but those with $9 / 10$ month contracts did not increase in constant dollars. In 1996, the news was poor for associate professors. Both groups of associate professors, those with $9 / 10$ month contracts and those with $11 / 12$ month contracts lost ground to inflation. On the other hand, the previous year, salary increases were greatest for those at the rank of associate professor. The assistant professors fared the best of the academics in 1996. Salaries for assistant professors increased substantially from 1995 to 1996. Their increase was notably greater than the rate of inflation.

| Rank/Contract | Median <br> Salary | Change from 1995 <br> (current dollars) | Change from 1995 <br> (constant dollars) |  |
| :--- | :--- | :---: | ---: | ---: |
| Full 9/10 | 62,000 | up $2.1 \%$ | down | $0.7 \%$ |
| Full $11 / 12$ | 89,350 | up $5.0 \%$ | up | $2.2 \%$ |
| Assoc $9 / 10$ | 45,000 | even | down | $2.8 \%$ |
| Assoc $11 / 12$ | 60,000 | down $1.6 \%$ | down $4.4 \%$ |  |
| Asst 9/10 | 38,480 | up $13.2 \%$ | up | $10.4 \%$ |
| Asst $11 / 12$ | 50,000 | up. $7.3 \%$ | up | $4.5 \%$ |

## Trends in Chemists‘ Salaries

For the past ten years, as shown in Figures 1 and 2, salaries for chemists have generally grown in current dollars and constant dollars for the PhD. Chemists with masters and bachelors degrees rose more gradually until 1996, when the masters' salaries leveled and bachelor chemists lost ground in current salary dollars.

Figure 2 shows chemists salary trends in 1984 constant dollars. After an initial drop in the late-1980s in constant dollar salaries, chemists with doctorates regained their initial loss and have steadily gained in salaries, albeit smaller gains since 1994. The chemists with masters regained their initial late-1980 constant dollar loss and gained until 1992. As stated earlier, this year they fell farther behind inflation for the second straight year. The bachelor chemists salaries barely regained constant dollar losses of the 1980s and have also fallen behind in constant dollar gains for several years.

Figure 1
Chemist's Median Salaries: 1986-1996
(in current dollars)


Figure 2
Chemist's Median Salaries: 1986-1996
(in constant 1984 dollars)


## Other Sources of Income

Consulting was a source of income for over 17 percent of the survey's respondents, down from over 18 percent in 1995. Two-thirds of those who said they consulted, did so less than 10 percent of their time per month. Only seven percent of all those who consulted said they consulted full-time. The majority of chemists with more than 15 years since their BS degrees and who consulted had median hourly rates of $\$ 50$ to $\$ 100$, depending on highest degree earned. PhDs with more than 15 years since their BS degrees tended to earn a median hourly rate of more than $\$ 100$ per hour.

About a third of all respondents received bonuses. The majority of those who received bonuses worked in industry. Over half of the industrial chemists reported receiving a bonus in the past year. The median amount of bonuses reported by industrial chemists was $\$ 4,000$, up from $\$ 3,000$ the prior year. Industrial bonuses were closely tied to the size of the company, with larger companies giving higher bonuses, but smaller companies giving proportionately more bonuses.

## Individual Chemists' Salaries

Overall salaries for chemists may be stagnant or falling, but individual chemists who worked for the same employer for more than one year showed healthy gains in 1996. All analyzed groups of chemists who received raises in the past year showed median salary increases exceeding the inflation factor. Chemists in industry posted the highest raises with and overall median raise of 4.8 percent, followed by an overall four percent raise in academia and a 3.5 percent for government chemists.

Chemists between the ages of 20 and 29 garnered higher salary increases than any other age group with an overall median increase of 6.8 percent. For each group, chemists with bachelor degrees gained larger proportional raises in 1995 to 1996 than did chemists with graduate degrees.

Seemingly contradictory occurrences, such as higher individual salaries and lower overall salaries can have several explanations. One of those is with the methodology of using median salaries as the descriptor, where essentially two differing groups are compared by median. Other explanations are found in the higher movement of chemists between jobs and where new jobs are being created in the industry, as reported in the Employment and Unemployment Section of this report. Also, and with greater frequency, chemists are changing employment and finding jobs in smaller companies that generally pay less than larger companies.

## EMPLOYMENT AND UNEMPLOYMENT ${ }^{4}$

## The Industry

At the end of 1995 and through 1996, the U.S. Bureau of Labor Statistics (BLS) has released a series of reports ${ }^{5}$ estimating employment through the year 2005 by occupation and by industry. In addition, The National Science Board's Science \& Engineering Indicators 1996 published results from an economic model of the supply side of the science workforce through the year 2005. From these two sources, the overall outlook for continued growth in jobs for chemists is favorable, barring any unexpected labor market downturns or changes.

The chemist occupation is expected to grow in both the chemical manufacturing, by 23.3 percent, and drug industries, by 13.5 percent. This growth is above and beyond replacement. Within the chemical and related industries, the new job opportunities are expected to be greatest in the pharmaceutical and biotechnology firms. Forbes magazine estimated this past year that over 60 percent of new jobs will continue to be created in very small firms, most of which have fewer than 100 employees. New employment opportunities for science technicians and chemical engineers are also expected to increase, but at more moderate rates.

Concurrent with new jobs for chemists, overall employment in the chemistry industry is expected to continue to decline by four percent during the period from 1994 to 2005. The loss of jobs in the chemical industry is expected in the areas of production, administration, general management, and production management occupations. Thus, for chemists in any of those occupations, the outlook is less optimistic and employment will continue to decline into the next century.

## Employment Statuses

The employment statuses on March 1, 1996 for most of the respondents are presented in Table 1. The unemployment rate for chemical engineers seeking employment declined for the third year in a row, from a peak of 3.5 percent in 1993 to 2.3 percent in 1996. The 2.9 percent unemployment rate for chemists seeking employment rose to levels last seen in the

[^3]| Table 1 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Employment Status by Work Specialty: 1994-1996 |  |  |  |  |  |  |
| Status | Chemical Engineering |  |  | Chemistry |  |  |
|  | 1994 | 1995 | 1996 | 1994 | 1995 | 1996 |
| Full-time | 91.7\% | 90.3\% | 90.7\% | 90.1\% | 88.8\% | 89.3\% |
| Part-time | 2.3\% | 2.4\% | 3.0\% | 2.5\% | 2.7\% | 2.7\% |
| Postdoc \& fellowship | 0.4\% | 1.1\% | 0.8\% | 2.9\% | 3.5\% | 2.7\% |
| Unemployed \& seeking | 3.1\% | 2.9\% | 2.3\% | 2.6\% | 2.5\% | 2.9\% |
| Not seeking employment | 2.5\% | 3.2\% | 3.2\% | 2.0\% | 2.6\% | 2.3\% |
| Total number in category | 557 | 2,703 | 473 | 8,838 | 45,314 | 8787 |

1970s. However, the percentage of those employed full-time for both chemists and chemical engineers rebounded with a slight increase after continuing declines in 1995. The full-time rate for chemical engineers declined by more than one percentage point between 1994 and 1995.

Chemists employed part-time continued as 2.7 percent in 1996. Those in postdocs or fellowships decreased to near-1994 levels, from 2.9 percent in 1994 to 3.5 percent in 1995 and then to 2.7 percent this year. Finally, 2.3 percent of the chemists were not seeking employment in 1996.

## Unemployment Trends for Chemists and Chemical Engineers

Figure 3 shows the unemployment trends for chemists and chemical engineers. Generally, chemical engineers maintain higher unemployment rates. This year the data showed the unemployment rates for chemical engineers falling below that of chemists for the second time in 15 years. In addition, the trends for chemists shows an upward tendency for almost a decade, rivaling that of the late 1960s and early 1970s.

Although the sharp increase in unemployment for chemists was partially a result of the younger age and industrial bias of this year's sample, the recent and relatively high unemployment of ACS members follows a trend that has been developing during the 1990s for members. This also follows the national trend of higher unemployment amongst all professionals, especially for those like chemists who have had traditionally low
unemployment. More telling for chemists is the upward trend in the numbers and proportions of chemists who are unemployed during the previous year.

| Chemists | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  | 1.9 |  |  |  |
| Unemployment Rate $^{6}$ |  |  |  |  |  |  |

Figure 3

## Unemployment Rates for Chemists and

## Chemical Engineers: 1971-1996


6. Since the early 1990s, the BLS has dropped those unemployed and not seeking from the labor force. Prior to the late 1980s, the not seeking group was so small that they did not statistically affect the unemployment rate.
7. A question on the survey asks for those who are unemployed and seeking work. It does not ask how many changed jobs in the past year. The number who actually change jobs in the past year is a combination of those who experienced unemployment, plus those who go to another job/employer without any period of unemployment.

The rising unemployment rate for the past year indicates the growing volatility of employment for chemists. The unemployment rate for one particular day masks the much larger proportion of chemists who experienced unemployment sometime during the previous year. While the unemployment rate for chemists has risen, the total annual proportion of unemployed chemists has risen by a factor of two or more.

Indeed, even for chemists who were fully employed on March 1, 1996, over five percent had some period of unemployment in the previous year, 1995. This points out the seeming anomaly of job growth, partnered with higher unemployment and increased movement between jobs.

## TECHNICAL NOTES

The Sample

Traditionally, the target population of the ACS Comprehensive Salary and Employment Status Survey is those ACS members who had mailing addresses in the U.S. and had neither student, retired, nor emeritus membership status. This year, the sample contained a general sample from the membership database that included any person on that database. The survey questionnaires were mailed to 20,000 by bulk mail on February 23, 1996. A follow-up mailing was sent to nonrespondents on March 23. By the May 19 cut-off date, over 10,500 usable questionnaires ( 54 percent of the original mailing) had been returned. By the time the data were returned, the weakness of the sample was apparent and steps were taken to "clean" the data by examining and comparing every respondent with his or her membership status. This was done by the assigned identification number, not by name or any other personal information. At all times the identification of the respondent is kept confidential.

## Definitions

For the purposes of the survey analysis, the following definitions were used:
Chemist: A respondent who indicated a work specialty of chemistry or biochemistry (categories 2 through 15 of Part 1, Question 3 of the questionnaire) or, if a non-chemistry work specialty (categories 16 through 19 of the same question), a degree field of chemistry or biochemistry.

Chemical Engineer: A respondent who indicated a work specialty (category 1 of Part 1, Question 3 of the questionnaire).

Nonchemist: A respondent whose category is other than chemistry or chemical engineering, as above.

Academic: Pertaining to a college or university, i.e., a private or public institution that awards a degree of associate or higher.

Unemployed: A respondent who was not employed and was seeking employment (category 4 of Part 1, Question 4 of the questionnaire). The unemployment rate calculated to compare with the national rate, drops those not seeking from the labor force.

Respondents indicated their employment status, base annual salaries, and ages as of March 1, 1996.

## Discrepancies Among Tables

Some pairs of tables contain totals that should be identical but are not. For example, two tables that represent information about PhD respondents should show the same total number of PhDs. However, they might show different totals. This phenomenon is generally caused by missing response items in a survey. Not every respondent answers all questions all of the time. To illustrate, if one table groups the PhDs according to specialty and the other groups them according to work function, the totals will differ unless the number who did not indicate their specialty is the same number (or person even) that did not indicate their work function.

## Comparing Salaries

Questions arise frequently about salary comparisons, such as between degrees, or men and women. All such comparisons require caution. The salaries here represent the medians and means of ACS members. Most of the statistics in this report are descriptive in nature, not analytical.

Tests of significance should be performed on any salary discrepancies to see whether the observed salary differences between groups are mere chance resulting from some peculiarity of the sample itself. The significance of a difference between subpopulations depends on multiple factors. These factors include, among other things, the magnitude of the difference within the sample and between sample groups, and sample size.

## Nonresponse Bias

One source of sample error may arise from a response bias. Members who respond may be different than members who do not respond. Past comparisons of ACS membership record showed no bias in terms of age, sex, employer, or geographic region. In addition, a telephone follow-up of 388 nonresponders to the 1991 survey showed the nonresponders' salaries were virtually the same as the responders. The mean salary for the responders was $\$ 57,007$; for nonresponders it was $\$ 57,982$. A $t$-test of the difference between the mean salaries of the two groups resulted in no significant difference between the means (Student's t was only 0.57 ). The percent in both groups that were unemployed was also the same -- $1.6 \%$.

## LIST OF TABLES

## Salaries on March 1, 1996

Table Page
Number
ALL CHEMISTS
Type of Employer and
Years since the BS:
Bachelor's 1.1.1 ..... 15
Master's 1.1.2 ..... 16
Doctorate 1.1.3 ..... 17
INDUSTRIAL CHEMISTS
Highest Degree and
Years since the BS: 2.1.118
Men 2.1.2 ..... 19
Women 2.1.3 ..... 20
Bachelor's Degree Holders:
Years since the BS and:
Total Subordinates 2.2.1 ..... 21
Size of Employer 2.2.2 ..... 22
Master's Degree Holders:
Years since the BS and:
Total Subordinates 2.3.1 ..... 23
Size of Employer 2.3.2 ..... 24
Doctorate Degree Holders:
Years since the BS and:
Total Subordinates ..... 2.4.1 ..... 25
Size of Employer. ..... 2.4.2 ..... 26
PhD ACADEMIC CHEMISTS in COLLEGES or UNIVERSITIES
Academic Rank and Contract Status. ..... 3.1.1 ..... 27
Academic Rank and:
Institutional Control . . 9 or 10 Month Contract. 3.2.1 ..... 28
11 or 12 Month Contract. 3.2.2 ..... 29
Type of Institution . . 9 or 10 Month Contract. 3.3.1 ..... 29
11 or 12 Month Contract. 3.3.2 ..... 29
Sex. 9 or 10 Month Contract. 3.4.1 ..... 30
11 or 12 Month Contract 3.4.2 ..... 30
STIPENDS OF POSTDOCTORAL FELLOWS
Institutional Control and Work Field 4.1.1 ..... 31
Table
Number Page
INDUSTRIAL CHEMICAL ENGINEERSHighest Degree and Years since the BS5.1.132
EMPLOYMENT AND UNEMPLOYMENT ON MARCH 1, 1996
CHEMISTSEmployment Status by:
Type of Employer 6.1.1 ..... 33
Highest Degree 6.1.2 ..... 34
Age. 6.1.3 ..... 35

Table 1.1.1

## SALARIES of BS CHEMISTS employed FULL-TIME by EMPLOYER TYPE and YEARS SINCE BS 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \% \text { - } 1 \text { le } \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text { - } \mathrm{i} l \mathrm{e} \end{aligned}$ | $\begin{aligned} & 75 \mathrm{th} \\ & \% \text {-ile } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Industry |  |  |  |  |  |  |
| Total | 1585 | 51,082 | 31.662 | 35.000 | 45,600 | 60,000 |
| 0-1 | 76 | 33,472 | 36,266 | 24.000 | 29.570 | 34,943 |
| 2-4 | 263 | 33.333 | 26.188 | 26,250 | 31,308 | 36,000 |
| 5-9 | 282 | 39,915 | 8.831 | 33.800 | 39.380 | 45,000 |
| 10-14 | 247 | 50,454 | 40,720 | 41.100 | 47,000 | 55,000 |
| 15-19 | 216 | 57.205 | 15,284 | 47.190 | 56,275 | 65,204 |
| 20-24 | 180 | 58,447 | 34,166 | 44,650 | 54.425 | 67,000 |
| 25-29 | 118 | 69,598 | 28,551 | 53,000 | 64,500 | 79.040 |
| 30-34 | 95 | 67.816 | 19,623 | 55,000 | 65.000 | 80,000 |
| 35-39 | 60 | 78.629 | 38,508 | 54,430 | 65,830 | 92,500 |
| 40 or more | 48 | 76.813 | 45,566 | 53.250 | 66,420 | 86,500 |
| Government |  |  |  |  |  |  |
| Total | 142 | 46,494 | 15.390 | 35,007 | 45,675 | 57.500 |
| 5-9 | 20 | 38,686 | 9,288 | 30,600 | 37,896 | 47.069 |
| 10-14 | 21 | 38,935 | 12.190 | 32,000 | 36,171 | 45,154 |
| 15-19 | 28 | 49,095 | 15,212 | 38,439 | 47.358 | 59,958 |
| 20-24 | 19 | 48,874 | 13.391 | 38,090 | 48,326 | 56,000 |
| 25-29 | 20 | 57,179 | 13,255 | 43,906 | 58,000 | 64,939 |
| Other Nonacademic 77 c |  |  |  |  |  |  |
| Total | 77 | 47,349 | 23,584 | 28,008 | 43.335 | 62,500 |
| 10-14 | 15 | 42,049 | 14.531 | 33,000 | 42,000 | 50,600 |
| High School |  |  |  |  |  |  |
| Total | 23 | 28,901 | 9.366 | 24.000 | 28,000 | 30,000 |
| College or University |  |  |  |  |  |  |
| Total | 82 | 32,445 | 17,788 | 20,000 | 29,070 | 40.000 |
| 2-4 | 20 | 20,093 | 7.479 | 13.485 | 17,650 | 25.500 |
| 5-9 | 16 | 26,635 | 11.307 | 17.461 | 26,920 | 30.600 |

Table 1.1.2
SALARIES of MS CHEMISTS employed FULL-TIME by EMPLOYER TYPE and YEARS SINCE BS

1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \%-i l e \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text {-ile } \end{aligned}$ | $\begin{aligned} & 75 \text { th } \\ & \% \text {-i } 1 \text { e } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Industry |  |  |  |  |  |  |
| Total | 858 | 62,476 | 37.020 | 46,800 | 57,328 | 70,620 |
| 2-4 | 26 | 34,506 | 7,311 | 26,888 | 34,750 | 40.901 |
| 5-9 | 111 | 45,964 | 39,004 | 38,500 | 42.387 | 49,000 |
| 10-14 | 147 | 50.756 | 11,100 | 44,600 | 50.000 | 56.971 |
| 15-19 | 147 | 59,201 | 14,341 | 48,300 | 58,510 | 66,500 |
| 20-24 | 150 | 66,011 | 17.846 | 55,000 | 63.930 | 76.000 |
| 25-29 | 124 | 77.816 | 71,807 | 58,250 | 67,253 | 80.000 |
| 30-34 | 90 | 76,284 | 32.127 | 60,000 | 72.000 | 84,250 |
| 35-39 | 39 | 80,928 | 31,606 | 62.600 | 72.000 | 97.200 |
| 40 or more | 24 | 77,866 | 17.134 | 67,750 | 77,400 | 88.000 |
| Government |  |  |  |  |  |  |
| Total | 96 | 51,837 | 13,562 | 43,015 | 51,539 | 59,430 |
| 15-19 | 17 | 52,902 | 11.371 | 44,668 | 53.500 | 60,500 |
| 20-24 | 18 | 52,071 | 11,088 | 43,750 | 52,683 | 58,276 |
| 25-29 | 18 | 56,258 | 9.998 | 50,966 | 54,164 | 62,000 |
| Other Nonacademic |  |  |  |  |  |  |
| Tota 1 | 67 | 57.360 | 33,562 | 35.000 | 55,000 | 71,000 |
| 30-34 | 17 | 80,685 | 49,338 | 42,000 | 69,200 | 110,000 |
| High School |  |  |  |  |  |  |
| Total | 67 | 45,293 | 14,329 | 33,000 | 44,000 | 56,000 |
| 25-29 | 16 | 48.828 | 14,470 | 40,776 | 48,915 | 57.643 |
| 30-34 | 15 | 48.593 | 16.209 | 36,500 | 45.000 | 57,540 |
| College or University |  |  |  |  |  |  |
| Total | 103 | 39.203 | 13,542 | 30.000 | 38,530 | 50,029 |
| 25-29 | 18 | 42.576 | 14,544 | 31,000 | 38,829 | 53,102 |
| 30-34 | 21 | 42.884 | 13,292 | 34.000 | 44,042 | 52.957 |

[^4]Table 1.1.3
SALARIES of PhD CHEMISTS employed FULL-TIME
by EMPLOYER TYPE and YEARS SINCE BS 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \% \text {-ile } \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text { - } \mathrm{ile} \end{aligned}$ | $\begin{aligned} & 75 \text { th } \\ & \% \text { - } \mathrm{i} \text { le } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Industry |  |  |  |  |  |  |
| Total | 2224 | 82,146 | 39,046 | 63.300 | 75,000 | 91,000 |
| 5-9 | 117 | 56,921 | 8,360 | 53,000 | 58,000 | 61,800 |
| 10-14 | 462 | 66,087 | 34.250 | 58,000 | 63,081 | 69,700 |
| 15-19 | 415 | 74,593 | 16,172 | 65,000 | 73,000 | 83,000 |
| 20-24 | 343 | 84,955 | 38,903 | 70.519 | 80,200 | 92,000 |
| 25-29 | 323 | 96,054 | 56,419 | 74.000 | 89,000 | 102,000 |
| 30-34 | 323 | 98,587 | 39,254 | 77.580 | 91,925 | 110,000 |
| 35-39 | 144 | 94,220 | 35,784 | 70,160 | 91,150 | 106,000 |
| 40 or more | 97 | 92,460 | 33,700 | 72,000 | 88,000 | 103,881 |
| Government |  |  |  |  |  |  |
| Total | 299 | 71,146 | 19,834 | 57,747 | 68.729 | 84.000 |
| 10-14 | 39 | 55,276 | 10,072 | 48.491 | 53,950 | 64.000 |
| 15-19 | 36 | 59,269 | 12,506 | 54,332 | 61.000 | 66.000 |
| 20-24 | 38 | 76,208 | 14,170 | 65,000 | 76,008 | 84.000 |
| 25-29 | 43 | 71,407 | 15,042 | 59,473 | 73.261 | 84.000 |
| 30-34 | 66 | 78,938 | 19,984 | 63,442 | 75.965 | 95,000 |
| 35-39 | 39 | 77,730 | 18,167 | 64,000 | 75,000 | 87.360 |
| 40 or more | 26 | 87,057 | 22,605 | 61,679 | 93,221 | 98,500 |
| Other Nonacademic |  |  |  |  |  |  |
| Total | 146 | 84,040 | 57.306 | 52,000 | 69,850 | 94,536 |
| 10-14 | 15 | 49,501 | 14,973 | 40.000 | 50,250 | 60.000 |
| 15-19 | 22 | 65,168 | 26,516 | 50,890 | 63,500 | 73.000 |
| 20-24 | 19 | 67,826 | 25.180 | 53.494 | 68,952 | 81.600 |
| 25-29 | 21 | 79,383 | 51,565 | 59,100 | 70.000 | 78,000 |
| 30-34 | 33 | 99,964 | 56,917 | 65,000 | 92,000 | 112,260 |
| 35-39 | 19 | 80,995 | 36,159 | 50,000 | 67,000 | 100,000 |
| High School | 16 | 44.089 | 11.578 | 36.850 | 42.500 | 50,000 |
| College or University |  |  |  |  |  |  |
| Total | 1406 | 61,225 | 42,842 | 40,500 | 52,600 | 70,100 |
| 5-9 | 89 | 35,634 | 9,251 | 30,000 | 35,000 | 40.600 |
| 10-14 | 213 | 44,450 | 46,380 | 33,895 | 38.000 | 45,495 |
| 15-19 | 171 | 54,688 | 58,486 | 40,000 | 45.690 | 53,000 |
| 20-24 | 140 | 56.987 | 22,965 | 41,062 | 51,150 | 64.400 |
| 25-29 | 187 | 66,179 | 50,903 | 45,000 | 56,400 | 77.000 |
| 30-34 | 255 | 70,219 | 44.034 | 49.350 | 61.200 | 79,277 |
| 35-39 | 217 | 70.770 | 26,424 | 52.919 | 66,104 | 82,000 92 |

Table 2.1.1

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \% \text {-ile } \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \%-\text { - } 1 \text { e } \end{aligned}$ | $\begin{aligned} & 75 \mathrm{th} \\ & \% \text { - } \mathrm{ile} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BS |  |  |  |  |  |  |
| Total | 1585 | 51.082 | 31,662 | 35,000 | 45,600 | 60.000 |
| 0-1 | 76 | 33,472 | 36,266 | 24,000 | 29,570 | 34.943 |
| 2-4 | 263 | 33,333 | 26,188 | 26.250 | 31.308 | 36,000 |
| 5-9 | 282 | 39,915 | 8.831 | 33.800 | 39.380 | 45.000 |
| 10-14 | 247 | 50,454 | 40,720 | 41,100 | 47,000 | 55.000 |
| 15-19 | 216 | 57,205 | 15.284 | 47.190 | 56,275 | 65,204 |
| 20-24 | 180 | 58,447 | 34,166 | 44,650 | 54.425 | 67.000 |
| 25-29 | 118 | 69.598 | 28,551 | 53,000 | 64.500 | 79.040 |
| 30-34 | 95 | 67.816 | 19,623 | 55,000 | 65,000 | 80,000 |
| 35-39 | 60 | 78,629 | 38,508 | 54,430 | 65.830 | 92,500 |
| 40 or more | 48 | 76,813 | 45,566 | 53.250 | 66.420 | 86,500 |
| MS |  |  |  |  |  |  |
| Total | 858 | 62.476 | 37.020 | 46.800 | 57,328 | 70.620 |
| 2-4 | 26 | 34,506 | 7,311 | 26,888 | 34.750 | 40,901 |
| 5-9 | 111 | 45,964 | 39,004 | 38.500 | 42,387 | 49.000 |
| 10-14 | 147 | 50,756 | 11,100 | 44.600 | 50,000 | 56,971 |
| 15-19 | 147 | 59,201 | 14,341 | 48,300 | 58.510 | 66,500 |
| 20-24 | 150 | 66,011 | 17,846 | 55,000 | 63.930 | 76.000 |
| 25-29 | 124 | 77.816 | 71.807 | 58,250 | 67.253 | 80.000 |
| 30-34 | 90 | 76,284 | 32.127 | 60.000 | 72.000 | 84.250 |
| 35-39 | 39 | 80.928 | 31.606 | 62.600 | 72.000 | 97,200 |
| 40 or more | 24 | 77,866 | 17,134 | 67.750 | 77.400 | 88,000 |
| PhD |  |  |  |  |  |  |
| Total | 2224 | 82,146 | 39,046 | 63,300 | 75,000 | 91.000 |
| 5-9 | 117 | 56.921 | 8.360 | 53,000 | 58,000 | 61.800 |
| 10-14 | 462 | 66,087 | 34.250 | 58,000 | 63.081 | 69.700 |
| 15-19 | 415 | 74.593 | 16,172 | 65,000 | 73.000 | 83,000 |
| 20-24 | 343 | 84.955 | 38,903 | 70,519 | 80,200 | 92,000 |
| 25-29 | 323 | 96,054 | 56.419 | 74.000 | 89.000 | 102.000 |
| 30-34 | 323 | 98,587 | 39,254 | 77.580 | 91,925 | 110.000 |
| 35-39 | 144 | 94.220 | 35.784 | 70.160 | 91,150 | 106,000 |
| 40 or more | 97 | 92.460 | 33.700 | 72.000 | 88.000 | 103,881 |

Note: Categories with fewer than 15 cases are not shown.

Table 2.1.2

## SALARIES of MEN CHEMISTS employed FULL-TIME in INDUSTRY by DEGREE and YEARS SINCE BS <br> 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \%-i l e \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text { - } \mathrm{ile} \end{aligned}$ | $\begin{aligned} & 75 \text { th } \\ & \% \text {-ile } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BS |  |  |  |  |  |  |
| Total | 1115 | 54,161 | 29.733 | 37.100 | 49,000 | 64,000 |
| 0-1 | 40 | 30.043 | 8,356 | 23,720 | 30.000 | 33.750 |
| 2-4 | 144 | 35,133 | 34.783 | 27,805 | 31.716 | 36,250 |
| 5-9 | 168 | 39.713 | 9.510 | 33.098 | 39.000 | 44,850 |
| 10-14 | 168 | 48,908 | 11.741 | 41,950 | 48.550 | 55,298 |
| 15-19 | 171 | 58,116 | 15.661 | 48,000 | 56,567 | 65.500 |
| 20-24 | 152 | 59,532 | 36,625 | 45,000 | 54,000 | 69,200 |
| 25-29 | 98 | 72.499 | 29.769 | 55,200 | 66,374 | 80,000 |
| 30-34 | 80 | 69.262 | 19.723 | 55,700 | 65,500 | 80,000 |
| 35-39 | 49 | 82.076 | 40.374 | 56.210 | 68.000 | 93,000 |
| 40 or more | 45 | 79,691 | 45,460 | 62.000 | 68,000 | 88,000 |
| MS |  |  |  |  |  |  |
| Total | 644 | 63.351 | 22.637 | 48,980 | 60,000 | 74,805 |
| 5-9 | 71 | 42.755 | 8.755 | 38,700 | 44.000 | 49.000 |
| 10-14 | 95 | 51.115 | 10.781 | 45,000 | 50,000 | 57.000 |
| 15-19 | 115 | 61.555 | 13.987 | 52,500 | 60.000 | 68,000 |
| 20-24 | 117 | 67.105 | 17.238 | 56,080 | 64.250 | 78,000 |
| 25-29 | 106 | 69.104 | 21,922 | 58.000 | 66.910 | 80.000 |
| 30-34 | 73 | 77,131 | 31,739 | 62,000 | 72.000 | 84,250 |
| 35-39 | 34 | 85.405 | 30.856 | 65,460 | 81,960 | 100.000 |
| 40 or more | 21 | 80.759 | 15,918 | 74,100 | 80,000 | 90,000 |
| PhD 1929 |  |  |  |  |  |  |
| Total | 1929 | 83,529 | 39.507 | 64.692 | 76,500 | 92,432 |
| 5-9 | 85 | 57,750 | 8.376 | 54.000 | 58,500 | 62,175 |
| 10-14 | 363 | 65,172 | 28,074 | 57,500 | 63,400 | 70,050 |
| 15-19 | 358 | 74,298 | 15,984 | 65,000 | 73.000 | 83.000 |
| 20-24 | 297 | 86,009 | 41.193 | 70,750 | 80,950 | 92,000 |
| 25-29 | 297 | 97.202 | 58,160 | 75,000 | 89,280 | 102,240 |
| 30-34 | 303 | 99.692 | 39,908 | 78.900 | 92.512 | 111,200 |
| 35-39 | 138 | 94,454 | 34.900 | 70.896 | 91.325 | 106.000 |
| 40 or more | 88 | 94,402 | 34,353 | 72.500 | 88,900 | 112,955 |

Table 2.1.3
SALARIES of WOMEN CHEMISTS employed FULL-TIME in INDUSTRY
by DEGREE and YEARS SINCE BS
1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \%-\text { ile } \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text { - } \mathrm{ile} \end{aligned}$ | $\begin{aligned} & 75 \mathrm{th} \\ & \% \text { - ile } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BS |  |  |  |  |  |  |
| Total | 456 | 43.417 | 35,111 | 31,697 | 39,500 | 49.000 |
| 0-1 | 36 | 37,281 | 52,078 | 24,323 | 28,600 | 35,050 |
| 2-4 | 118 | 31.206 | 6,921 | 25,925 | 31.254 | 36,000 |
| 5-9 | 113 | 40.020 | 7,510 | 34,890 | 40,000 | 46,000 |
| 10-14 | 78 | 53,688 | 70,583 | 39,000 | 45,000 | 54.200 |
| 15-19 | 41 | 53.816 | 13.517 | 45.000 | 54,400 | 63,500 |
| 20-24 | 27 | 52,944 | 14.055 | 38,025 | 55,000 | 65,400 |
| 25-29 | 19 | 55.407 | 15,894 | 45,000 | 56,000 | 66,000 |
| MS |  |  |  |  |  |  |
| Total | 206 | 59.730 | 64,020 | 40,200 | 49,720 | 62.600 |
| 5-9 | 40 | 51,660 | 64.041 | 36,930 | 41.750 | 48,550 |
| 10-14 | 50 | 50,268 | 11.907 | 42.000 | 50,000 | 54,995 |
| 15-19 | 31 | 50,571 | 12,608 | 42,000 | 46,500 | 61,250 |
| 20-24 | 33 | 62,132 | 19.645 | 50,000 | 60.000 | 68,000 |
| 25-29 | 15 | 139,660 | 192,214 | 60,000 | 67.426 | 103,000 |
| 30-34 | 16 | 72.378 | 35.623 | 48.425 | 70.850 | 85.150 |
| PhD ${ }^{\text {P }}$ |  |  |  |  |  |  |
| Total | 273 | 72,599 | 35.509 | 60,000 | 66,000 | 77.600 |
| 5-9 | 32 | 54.721 | 8.032 | 50,600 | 56,900 | 59.604 |
| 10-14 | 95 | 69,107 | 51,930 | 58.500 | 62.580 | 67,200 |
| 15-19 | 53 | 76,533 | 17.306 | 65,000 | 72,800 | 82.680 |
| 20-24 | 43 | 78,440 | 17.215 | 66,027 | 78.000 | 89.880 |
| 25-29 | 22 | 82.710 | 26.656 | 64.000 | 77.120 | 95.000 |
| 30-34 | 17 | 82,860 | 22.466 | 69.700 | 72.100 | 99,000 |

Note: Categories with fewer than 15
cases are not shown.

Table 2.2.1
SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by TOTAL SUBORDINATES and YEARS SINCE BS
1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 t h \\ & \%-\text {-ile } \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text { - } 1 \text { le } \end{aligned}$ | $\begin{aligned} & 75 \text { th } \\ & \% \text { - } \mathrm{ile} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subordinates |  |  |  |  |  |  |
| None |  |  |  |  |  |  |
| Total | 35 | 41,076 | 14.191 | 29.000 | 40,800 | 48,000 |
| 1-2 |  |  |  |  |  |  |
| Total | 194 | 49.923 | 19.598 | 36.500 | 46.750 | 58,400 |
| 2-4 | 27 | 32.776 | 7.261 | 27.850 | 31,950 | 39.500 |
| 5-9 | 40 | 39,979 | 9.172 | 34.650 | 40.256 | 45,900 |
| 10-14 | 33 | 48,104 | 9.736 | 42.000 | 50,000 | 54,216 |
| 15-19 | 23 | 58,072 | 13,902 | 48,000 | 55,000 | 64.550 |
| 20-24 | 19 | 51.250 | 17,449 | 44,000 | 50,000 | 63.602 |
| 25-29 | 18 | 60,511 | 15,268 | 46,500 | 61.200 | 72.050 |
| 3-9 |  |  |  |  |  |  |
| Total | 1282 | 49.902 | 31,739 | 34,500 | 45,000 | 58,452 |
| 0-1 | 67 | 34.148 | 38,549 | 24,000 | 29,640 | 35,000 |
| 2-4 | 222 | 33,604 | 28,333 | 26,500 | 31.375 | 36,000 |
| 5-9 | 230 | 39,698 | 8.498 | 33.675 | 39,000 | 45,000 |
| 10-14 | 202 | 50,576 | 44,769 | 40,200 | 46,234 | 55,000 |
| 15-19 | 179 | 56,348 | 15,062 | 46,471 | 56.000 | 65.000 |
| 20-24 | 147 | 58,174 | 36.463 | 44.429 | 54.850 | 65,600 |
| 25-29 | 86 | 67,812 | 22,376 | 54,500 | 65,140 | 78,000 |
| 30-34 | 74 | 67,474 | 17.000 | 55.300 | 64,737 | 79.000 |
| 35-39 | 42 | 68.713 | 31,127 | 51,000 | 62.552 | 81.000 |
| 40 or more | 33 | 76,702 | 40.134 | 62.000 | 66,840 | 88.000 |
| 10-14 |  |  |  |  |  |  |
| 15-29 | 56 | 65,680 |  |  |  |  |
| Total | 18 | 121,636 | 65.086 | 70,200 | 107,500 | 135,000 |

Table 2.2.2
SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY by EMPLOYER SIZE and YEARS SINCE BS

1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \% \text { - } \mathrm{ile} \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \%-\text { ile } \end{aligned}$ | $\begin{aligned} & 75 \text { th } \\ & \% \text { - ile } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EMPLOYER SIZE |  |  |  |  |  |  |
| Less than 500 |  |  |  |  |  |  |
| Total | 512 | 44,756 | 22,834 | 30,590 | 40,000 | 53,000 |
| 0-1 | 31 | 26,073 | 7,318 | 21.000 | 25,500 | 30,000 |
| 2-4 | 103 | 28,848 | 5,692 | 24,960 | 28,980 | 32.030 |
| 5-9 | 91 | 37.482 | 10,091 | 31.000 | 36,500 | 42,000 |
| 10-14 | 86 | 47.087 | 12.407 | 38,400 | 46.550 | 54,950 |
| 15-19 | 67 | 54.098 | 15,925 | 43,000 | 51,840 | 65,000 |
| 20-24 | 55 | 48.058 | 15,424 | 39.000 | 45,000 | 53,000 |
| 25-29 | 22 | 61.358 | 28,100 | 43,486 | 55,818 | 70.000 |
| 30-34 | 22 | 61.182 | 21.527 | 49.000 | 59,000 | 69.060 |
| 35-39 | 21 | 79.675 | 48,406 | 54,000 | 62,604 | 92,000 |
| 500 to 2,499 52,604 92,000 |  |  |  |  |  |  |
| Total | 321 | 51,303 | 35,813 | 34.000 | 43.368 | 59.400 |
| 2-4 | 53 | 39,972 | 56,278 | 28,500 | 32,000 | 35.000 |
| 5-9 | 65 | 38,832 | 8.866 | 32.000 | 37,500 | 42.500 |
| 10-14 | 49 | 46,301 | 11,878 | 36.780 | 44,694 | 52,000 |
| 15-19 | 43 | 54.573 | 12.602 | 45,812 | 52.800 | 62.600 |
| 20-24 | 32 | 59.772 | 18,936 | 46,215 | 58.100 | 71.500 |
| 25-29 | 24 | 71.224 | 33,506 | 50,000 | 63.515 | 79,270 |
| 30-34 | 21 | 61,276 | 21,758 | 45,000 | 62.500 | 75.000 |
| 2,500 to 9,999 |  |  |  |  |  |  |
| Total | 275 | 54.912 | 24,605 | 39,600 | 50.000 | 65,000 |
| 2-4 | 34 | 35.144 | 8,173 | 30.000 | 35,500 | 40,000 |
| 5-9 | 43 | 42,034 | 7.906 | 36,250 | 40,000 | 47.100 |
| 10-14 | 47 | 48.154 | 9.461 | 42,000 | 48,876 | 55,596 |
| 15-19 | 36 | 58,452 | 13.750 | 49,550 | 56,664 | 65,670 |
| 20-24 | 41 | 58,075 | 19,990 | 46.125 | 56,880 | 68.100 |
| 25-29 | 27 | 73.450 | 35,772 | 55,764 | 66,500 | 78.000 |
| 30-34 | 15 | 71,599 | 14.395 | 63.000 | 69,000 | 85,000 |
| 10.000 to 24.999 er |  |  |  |  |  |  |
| Total | 158 | 56,009 | 35,826 | 40,004 | 50,082 | 63.900 |
| 2-4 | 20 | 34.638 | 8.500 | 29,442 | 35,680 | 39.350 |
| 5-9 | 27 | 41,692 | 5,162 | 38,100 | 41,160 | 46,000 |
| 10-14 | 27 | 49,969 | 8.657 | 44.100 | 48.360 | 57.000 |
| 15-19 | 21 | 62.095 | 15,536 | 55.000 | 57.985 | 63,900 |
| 20-24 | 24 | 77,424 | 80,242 | 48.219 | 63,850 | 70.487 |
| 25,000 or more |  |  |  |  |  |  |
| Total | 302 | 56,076 | 40,834 | 39.500 | 50.350 | 65,400 |
| $0-1$ $2-4$ | 17 | 30,554 | 6.961 | 28,000 | 30.000 | 34,800 |
| $2-4$ $5-9$ | 47 54 | 33,824 42.387 | 8.549 | 28.500 | 34.368 | 38,500 |
| $5-9$ $10-14$ | 54 34 | 42,387 69.971 | 7.117 105.267 | 38.000 45.600 | 43,000 51 | 46,300 |
| 15-19 | 47 | 61,208 | 15.991 | 50,500 | 51.2000 59 | 71,000 |
| 20-24 | 28 | 61.616 | 14.898 | 53.020 | 58,314 | 69.300 |
| 25-29 | 35 | 71,778 | 22,091 | 56,000 | 70.000 | 83,000 |
| 30-34 | 24 | 75,670 | 16.926 | 60,827 | 70,000 | 90,000 |

Note: Categories with fewer than 15 cases are not shown.

Table 2.3.1
SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY by TOTAL SUBORDINATES and YEARS SINCE BS

1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \%-i l e \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \%-i l e \end{aligned}$ | $\begin{aligned} & 75 \text { th } \\ & \%-i l e \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subordinates |  |  |  |  |  |  |
| None |  |  |  |  |  |  |
| Total | 15 | 54,830 | 16.618 | 41,460 | 53,287 | 68,600 |
| 1-2 |  |  |  |  |  |  |
| Total | 120 | 58.167 | 18.265 | 46.150 | 57,330 | 70,100 |
| 10-14 | 23 | 47.165 | 12.637 | 37.500 | 48,500 | 55,776 |
| 15-19 | 23 | 60.643 | 15.766 | 49.740 | 58,740 | 71.000 |
| 20-24 | 25 | 62.077 | 14.184 | 55,000 | 60,191 | 71.000 |
| 25-29 | 17 | 58,665 | 22,621 | 49.400 | 55,000 | 66,400 |
| 3-9 |  |  |  |  |  |  |
| Total | 681 | 61.527 | 38,295 | 46,500 | 56,971 | 70,000 |
| 2-4 | 25 | 34.126 | 7.196 | 26,888 | 32.500 | 40.200 |
| 5-9 | 99 | 46.927 | 41.026 | 38.600 | 43.000 | 49.200 |
| 10-14 | 118 | 51,476 | 10.710 | 45,000 | 50,000 | 57.000 |
| 15-19 | 114 | 58,551 | 14,106 | 48,000 | 57.880 | 65,500 |
| 20-24 | 119 | 66,050 | 17,218 | 54.350 | 64.000 | 76.000 |
| 25-29 | 99 | 80,488 | 78,932 | 60.000 | 68.552 | 80.520 |
| 30-34 | 66 | 71.808 | 20,812 | 60.000 | 72.000 | 80,300 |
| 35-39 | 25 | 74,589 | 22.785 | 62.600 | 69.000 | 88,360 |
| 40 or more | 16 | 76.245 | 15,079 | 67.320 | 78.400 | 85.237 |
| 10-14 |  |  |  |  |  |  |
| Total | 30 | 81.028 | 36,407 | 57.200 | 67.300 | 99.500 |

Table 2.3.2
SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by EMPLOYER SIZE and YEARS SINCE BS
1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \% \text { - ile } \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text { - } 1 \text { le } \end{aligned}$ | $\begin{aligned} & \text { 75th } \\ & \% \text { - ile } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EMPLOYER SIZE Less than 500 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Total | 205 | 56,456 | 26,544 | 40,000 | 50,000 | 68,000 |
| 5-9 | 24 | 36,703 | 7,092 | 32,795 | 37.980 | 42,000 |
| 10-14 | 33 | 47,745 | 13,710 | 38.000 | 45.000 | 56.971 |
| 15-19 | 38 | 55,261 | 13,468 | 45,720 | 55,825 | 65,000 |
| 20-24 | 34 | 61.738 | 17,418 | 48,960 | 60.500 | 68,000 |
| 25-29 | 28 | 59.104 | 24,630 | 45,404 | 59,000 | 77.500 |
| 30-34 | 19 | 76.843 | 50,958 | 42,000 | 63.000 | 100.000 |
| 500 to 2,499 |  |  |  |  |  |  |
| Total | 155 | 60,194 | 37,620 | 45,000 | 54,600 | 65,000 |
| 5-9 | 27 | 56,950 | 77,727 | 38,600 | 43,400 | 50,000 |
| 10-14 | 28 | 47.297 | 12,158 | 38,868 | 46,120 | 52.370 |
| 15-19 | 30 | 58,197 | 14,720 | 48,000 | 54,800 | 61,200 |
| 20-24 | 32 | 62,015 | 15,362 | 50,980 | 60,095 | 66.000 |
| 25-29 | 17 | 76.326 | 25,376 | 64,000 | 68,400 | 80.000 |
| 2,500 to 9,999 |  |  |  |  |  |  |
| Total | 53 | 65,105 | 21,743 | 50,000 | 62,500 | 75,000 |
| 10-14 | 26 | 53.859 | 10,747 | 46,000 | 49.670 | 62.500 |
| 15-19 | 31 | 61.735 | 17.477 | 50.000 | 62.000 | 71,000 |
| 20-24 | 23 | 69,728 | 15,078 | 53,100 | 70,000 | 79,500 |
| 25-29 | 27 | 73,575 | 23,250 | 56,650 | 64.850 | 92.000 |
| 30-34 | 22 | 77,213 | 29,971 | 63,000 | 73.000 | 81,592 |
| 10,000 to 24,999 |  |  |  |  |  |  |
| Total | 119 | 62.542 | 18,561 | 49,200 | 57,000 | 70.200 |
| 10-14 | 28 | 54.247 | 7.057 | 48.550 | 53.000 | 57.000 |
| 15-19 | 16 | 60.773 | 12,281 | 52,150 | 57.410 | 65,285 |
| 20-24 | 24 | 69,504 | 20,663 | 53,818 | 66,000 | 79.000 |
| 25,000 or more |  |  |  |  |  |  |
| Total | 221 | 68,104 | 55.695 | 50,000 | 60,000 | 74,731 |
| 5-9 | 31 | 46.118 | 9,430 | 41,460 | 47.500 | 51.000 |
| 10-14 | 32 | 51.311 | 9.009 | 46,880 | 53.144 | 54.372 |
| 15-19 | 31 | 62.210 | 11.793 | 55,000 | 61.000 | 70.450 |
| 20-24 | 36 | 69.088 | 19,401 | 57.773 | 64.375 | 78.000 |
| 25-29 | 38 | 97.672 | 123,604 | 63.000 | 68.563 | 78.300 |
| 30-34 | 26 | 75,038 | 19,518 | 63.000 | 74,913 | 79,200 |

Note: Categories with fewer than 15 cases are not shown.

Table 2.4.1

## SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY by TOTAL SUBORDINATES and YEARS SINCE BS 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 t h \\ & \% \text {-ile } \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \%-\text { i le } \end{aligned}$ | $\begin{aligned} & \text { 75th } \\ & \% \text {-ile } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Subordinates |  |  |  |  |  |  |
| 1-2 |  |  |  |  |  |  |
| Total | 402 | 75,839 | 44,396 | 61.150 | 69,523 | 81,950 |
| 5-9 | 24 | 56,349 | 9.538 | 51,800 | 56,800 | 61,500 |
| 10-14 | 108 | 63,317 | 8.160 | 57.650 | 62.610 | 68,140 |
| 15-19 | 84 | 68,838 | 12.940 | 60,250 | 67,524 | 77.500 |
| 20-24 | 50 | 82,967 | 53,927 | 65,000 | 74.000 | 88,000 |
| 25-29 | 48 | 99,179 | 99,554 | 71,460 | 77.970 | 90,000 |
| 30-34 | 51 | 86.467 | 33,677 | 67.022 | 82,150 | 99,000 |
| 35-39 | 18 | 86,438 | 38,663 | 68,800 | 72,494 | 94.500 |
| 40 or more | 19 | 86,300 | 21,201 | 71,400 | 87.540 | 98,000 |
| 3-9 |  |  |  |  |  |  |
| Total | 1639 | 79,597 | 33,418 | 63,400 | 75,000 | 90.000 |
| 5-9 | 89 | 57,140 | 8,117 | 53,000 | 58,000 | 61.517 |
| 10-14 | 344 | 66,895 | 39.312 | 58.000 | 63,514 | 70.075 |
| 15-19 | 313 | 75.168 | 15,453 | 66,000 | 73.800 | 84,500 |
| 20-24 | 272 | 83.388 | 35.670 | 71.000 | 80.490 | 90,114 |
| 25-29 | 229 | 89.672 | 42.276 | 74,000 | 88.000 | 100.000 |
| 30-34 | 222 | 92,212 | 25.749 | 75.024 | 89.678 | 105.000 |
| 35-39 | 104 | 88,461 | 25,392 | 70,160 | 90,000 | 100,574 |
| 40 or more | 66 | 90.123 | 32.610 | 70,000 | 88.900 | 103,000 |
| 10-14 |  |  |  |  |  |  |
| Total | 110 | 108,628 | 40,040 | 81.686 | 100,000 | 128,077 |
| 25-29 | 27 | 107.095 | 30.775 | 83,000 | 99,960 | 129,700 |
| 30-34 | 25 | 123.733 | 43,966 | 93,000 | 114.660 | 149.000 |
| 35-39 | 17 | 122,825 | 56.635 | 100,000 | 110,000 | 138,240 |
| 15-29 |  |  |  |  |  |  |
| Total | 60 | 147,618 | 62.353 | 105,125 | 132,500 | 174.000 |
| 25-29 | 17 | 158,176 | 54.051 | 119,000 | 135,000 | 200.000 |
| 30-34 | 23 | 161,094 | 75.014 | 119,808 | 135.000 | 181,000 |

Table 2.4.2
SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY by EMPLOYER SIZE and YEARS SINCE BS 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \mathrm{th} \\ & \% \text { - } \mathrm{ile} \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text {-ile } \end{aligned}$ | $\begin{aligned} & 75 \mathrm{th} \\ & \% \text { - } \mathrm{ile} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EMPLOYER SIZE Less than 500 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Total | 431 | 81.016 | 52.380 | 56,000 | 70,000 | 90.000 |
| 5-9 | 19 | 53,401 | 9,220 | 48,500 | 50.850 | 62.000 |
| 10-14 | 86 | 66,287 | 56.188 | 51.000 | 58,550 | 67.000 |
| 20-24 | 66 | 84,782 | 55.564 | 63,400 | 72.750 | 80.080 |
| 25-29 | 58 | 98,822 | 79.989 | 62,700 | 86.453 | 105,000 |
| 30-34 | 59 | 98,122 | 42.582 | 72.000 | 85,000 | 120,000 |
| 35-39 | 40 | 88,515 | 53,335 | 55.000 | 70,984 | 99.000 |
| 40 or more | 500 to 2,499 |  |  |  |  | 100.000 |
| Total ${ }^{\text {a }}$ | 312 | 80.119 | 45,454 | 61.000 | 72,000 | 88.130 |
| 5-9 | 18 | 52,172 | 13,364 | 49.000 | 53,816 | 60,000 |
| 10-14 | 65 | 69.638 | 61,950 | 56,000 | 61,000 | 68,280 |
| 15-19 | 53 | 69,796 | 13,743 | 63.000 | 69,000 | 75,960 |
| 20-24 | 50 | 78.239 | 20.640 | 66.027 | 78.167 | 85,500 |
| 25-29 | 48 | 91,509 | 57,507 | 68,710 | 81.575 | 94,738 |
| 30-34 | 46 | 98,080 | 53.204 | 70.745 | 86,000 | 105,000 |
| 25039 ${ }^{\text {3 }}$ - 90 | 21 | 97,965 | 2.500 to 9.999 20 |  | 96.000 | 116,292 |
| 2. Total | 402 | 80,744 | 39.158 | 63.000 | 74,994 | 88.400 |
| 5-9 | 19 | 57,326 | 5,259 | 54,000 | 57,000 | 60.000 |
| 10-14 | 86 | 64,098 | 10,167 | 58.000 | 62,750 | 69.300 |
| $15-19$ $20-24$ | 84 | 75, 031 | 13,607 | 65.500 | 74.994 | 81.593 |
| 20-29 | 53 64 | 83, 10251 | 22.256 79.460 | 70.533 | 81.000 | 92,432 |
| 30-34 | 53 | 90.511 | 34.309 | 71,000 | 82,400 | 105,000 |
| 35-39 | 25 | 88,796 | 24.511 | 68,712 | 87,840 | 100,000 |
| 40 or more | 18 | 86,898 | 31.286 | 64.500 | 89,500 | 96,000 |
| 10.000 to 24.999 ( |  |  |  |  | 75.024 | 89.500 |
| 5-9 | 16 | 60.103 | 3,567 | 57,620 | 60.050 | 62.088 |
| 10-14 | 69 | 64.234 | 8,863 | 59,575 | 64.575 | 70.050 |
| 15-19 | 59 | 73.556 | 14.870 | 65,000 | 72,000 | 81,000 |
| 20-24 | 59 | 82.701 | 18.426 | 72,390 | 80.900 | 89,000 |
| 25-29 | 42 | 88.354 | 28,735 | 74.160 | 83.437 | 90.400 |
| 30-34 | 53 | 97.870 | 35,625 | 82.680 | 92.500 | 101,400 |
| 35-39 | 18 | 100.637 | 28,142 | 85,200 | 97.148 | 113,300 |
| 40 or more | 17 | 106.177 | 42.554 | 84.000 | 90.000 | 102,200 |
| 25,000 or more | 737 | 84.836 | 30.756 |  |  |  |
| 5-9 | 43 | 58,549 | 6.118 | 54,500 | 88,500 | 96,000 61.860 |
| 10-14 | 155 | 66,383 | 8,544 | 61.800 | 65,000 | 70.608 |
| 15-19 | 140 | 78,105 | 16.011 | 69.250 | 75,300 | 86.050 |
| 20-24 | 115 | 89,776 | 46,383 | 75.000 | 85,000 | 96.000 |
| 25-29 | 111 | 95,901 | 24.641 | 81.000 | 92.000 | 106.000 |
| 30-34 | 110 | 103.611 | 34.463 | 85.000 | 100.000 | 117.000 |
| 35-39 | 39 | 99.807 | 21.014 | 85,200 | 98,000 | 110.000 |
| 40 or more | 24 | 105.157 | 34.148 | 83.748 | 95,750 | 119,000 |

Note: Categories with fewer than 15 cases are not shown.

Table 3.1.1

## SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME by CONTRACT STATUS and RANK <br> 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \%-i l e \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text {-ile } \end{aligned}$ | $\begin{aligned} & 75 \text { th } \\ & \% \text {-ile } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9-10 month |  |  |  |  |  |  |
| Full professor | 462 | 67.190 | 33,532 | 52,240 | 62,000 | 74.745 |
| Assoc professor | 188 | 47.918 | 30.784 | 38,656 | 45,000 | 51,046 |
| Asst professor | 208 | 40,014 | 14.696 | 34.942 | 38.483 | 42.000 |
| Instructor | 33 | 37,926 | 17,042 | 28,766 | 32.200 | 40,000 |
| 11-12 month |  |  |  |  |  |  |
| Full professor | 214 | 95,011 | 34,488 | 72,000 | 89.353 | 110,000 |
| Assoc professor | 57 | 72,263 | 82,890 | 50,000 | 60,000 | 69,000 |
| Asst professor | 54 | 50.276 | 14,087 | 42.000 | 50,000 | 59,410 |
| Instructor | 28 | 51.791 | 30,456 | 33,000 | 47,039 | 56.250 |
| Research appt | 108 | 41.859 | 42.653 | 26,940 | 32,162 | 48,000 |
| Other nonfaculty | 42 | 48.786 | 18,359 | 33,467 | 44,445 | 65,084 |

Table 3.2.1
SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME by RANK and INSTITUTIONAL CONTROL - 9 or 10 Month Contract 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 t h \\ & \% \text {-ile } \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text { - } \mathrm{ile} \end{aligned}$ | $\begin{aligned} & 75 t h \\ & \%-i l e \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Public |  |  |  |  |  |  |
| Full professor | 310 | 68.335 | 38.200 | 54.000 | 62,733 | 74,120 |
| Assoc professor | 110 | 50.557 | 39.378 | 40.300 | 45,149 | 52,400 |
| Asst professor | 124 | 39.702 | 6,154 | 35,100 | 39,200 | 42.774 |
| Instructor | 22 | 34,527 | 10,003 | 28,000 | 30.660 | 40,000 |
| Private |  |  |  |  |  |  |
| Full professor | 151 | 64,753 | 20,971 | 50,040 | 61,000 | 76.325 |
| Assoc professor | 76 | 44.280 | 9.161 | 36,500 | 43,673 | 50,880 |
| Asst professor | 84 | 40,474 | 21,958 | 33,500 | 37,683 | 42,000 |

Table 3.2.2
SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME by RANK and INSTITUTIONAL CONTROL - 11 or 12 Month Contract 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \mathrm{th} \\ & \% \text { - } \mathrm{ile} \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text { - } \mathrm{ile} \end{aligned}$ | $\begin{aligned} & 75 \mathrm{th} \\ & \% \text {-ile } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Public |  |  |  |  |  |  |
| Full professor | 148 | 90,935 | 26,806 | 71.646 | 86.750 | 103.578 |
| Assoc professor | 35 | 76.429 | 103,242 | 51.000 | 61.500 | 65.975 |
| Asst professor | 30 | 51,963 | 15,882 | 45,000 | 50,000 | 56,250 |
| Instructor | 20 | 47.667 | 21.813 | 30.750 | 42.312 | 54.750 |
| Research appt | 68 | 44.580 | 52.681 | 26.000 | 32.445 | 49.864 |
| Other nonfaculty | 23 | 46.602 | 18,204 | 32,008 | 44,600 | 61,818 |
| Private |  |  |  |  |  |  |
| Full professor | 63 | 104.754 | 47.316 | 72.400 | 100.000 | 135,000 |
| Assoc professor | 22 | 65,636 | 31.458 | 39,500 | 53,500 | 87.000 |
| Asst professor | 24 | 48.166 | 11,441 | 38.000 | 49.155 | 59.705 |
| Research appt | 38 | 37.654 | 13.971 | 28.000 | 32.663 | 45,000 |
| Other nonfaculty | 19 | 51,430 | 18,687 | 36,000 | 44.290 | 72,000 |

Table 3.3.1
SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME by RANK and TYPE OF INSTITUTION - 9 or 10 Month Contract 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \% \text { - } 1 \text { le } \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text {-ile } \end{aligned}$ | $\begin{aligned} & 75 \text { th } \\ & \% \text { - } \mathrm{i} \text { le } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NonPhD-granting |  |  |  |  |  |  |
| Full professor | 249 | 59,268 | 40,059 | 48,500 | 56,451 | 64.145 |
| Assoc professor | 112 | 42,341 | 8,204 | 36,475 | 40,900 | 47.000 |
| Asst professor | 126 | 38,147 | 17.883 | 34.000 | 36,055 | 39,970 |
| Instructor | 20 | 36,456 | 12,819 | 28,241 | 31,660 | 39,150 |
| PhD-granting |  |  |  |  |  |  |
| Full professor | 209 | 76,224 | 20.230 | 61,000 | 73,400 | 88,488 |
| Assoc professor | 75 | 56,194 | 46.659 | 44.000 | 49.000 | 56,237 |
| Asst professor | 82 | 42.883 | 6,681 | 39.000 | 42.000 | 45,000 |

Table 3.3.2
SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME by RANK and TYPE OF INSTITUTION - 11 or 12 Month Contract 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \% \text { - } \mathrm{ile} \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text { - } \mathrm{ile} \end{aligned}$ | $\begin{aligned} & 75 \text { th } \\ & \% \text { - ile } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NonPhD-granting Full professor | 46 | 70,206 | 22,892 | 55,000 | 67,877 | 84,000 |
| PhD-granting |  | 101.537 | 33.934 | 79.277 | 92.000 |  |
| Full professor | 97 29 | 101.537 79.873 | 33,934 113,857 | 79.277 51.000 | 60,000 | 117,000 |
| Asst professor | 23 | 47,284 | 11,125 | 43,500 | 48,000 | 51.384 |
| Instructor | 18 | 57,363 | 35,511 | 33,000 | 51,289 | 68,154 |
| Research appt | 93 | 42,521 | 45,541 | 26,200 | 33,000 | 48,000 |
| Other nonfaculty | 34 | 47.011 | 16,960 | 33,467 | 43,658 | 60,660 |
| Medical school |  |  |  |  |  |  |
| Full professor | 71 | 102,166 | 34,466 | 79,000 | 98,000 | 115,000 |
| Assoc professor | 18 | 74.139 | 24.533 | 54,875 | 64.500 | 93,000 |
| Asst professor | 23 | 58,015 | 14,168 | 49,534 | 59,000 | 61,000 |

Table 3.4.1
SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME by RANK and SEX - 9 or 10 Month Contract 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \mathrm{th} \\ & \% \text {-ile } \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text { - ile } \end{aligned}$ | $\begin{aligned} & \text { 75th } \\ & \% \text { - } \mathrm{ile} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Men |  |  |  |  |  |  |
| Full professor | 413 | 68,389 | 34.942 | 53,686 | 63,000 | 76,000 |
| Assoc professor | 142 | 49.241 | 35,084 | 39.000 | 45,167 | 52,000 |
| Asst professor | 133 | 40.980 | 17.716 | 35.000 | 39.682 | 42,000 |
| Instructor | 21 | 36,261 | 12,556 | 28,800 | 32.000 | 36.000 |
| Women |  |  |  |  |  |  |
| Full professor | 44 | 55,975 | 14,238 | 45,271 | 54,232 | 64,845 |
| Assoc professor | 46 | 43,834 | 7.653 | 38,594 | 43,524 | 49,000 |
| Asst professor | 73 | 38,203 | 6,354 | 34,000 | 38,000 | 42,500 |

Table 3.4.2

> SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME by RANK and SEX -11 or 12 Month Contract 1996 ACS Salary Survey


Table 4.1.1

> STIPENDS of ACADEMIC POSTDOCTORAL FELLOWS by INSTITUTIONAL CONTROL and WORK SPECIALTY 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 \text { th } \\ & \% \text { - } \mathrm{ile} \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text { - } i l e \end{aligned}$ | $\begin{aligned} & 75 \mathrm{th} \\ & \% \text { - } i l e \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WORK SPECIALTY |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Total | 37 | 25,294 | 4,179 | 22.500 | 25,000 | 28,044 |
| Public | 19 | 24.660 | 4.373 | 20.700 | 25,200 | 28,044 |
| Private | 18 | 25,964 | 3,977 | 22,500 | 25,000 | 28,950 |
| Chemistry |  |  |  |  |  |  |
| Total | 105 | 26.519 | 20.162 | 22.000 | 24.000 | 27.000 |
| Public | 68 | 27,232 | 24.672 | 22.000 | 24.000 | 27.000 |
| Private | 37 | 25,208 | 6,222 | 23,850 | 25,000 | 27,000 |

Table 5.1.1
SALARIES of CHEMICAL ENGINEERS employed FULL.TIME in INDUSTRY by DEGREE and YEARS SINCE BS 1996 ACS Salary Survey

|  | Count | Mean | Std Dev | $\begin{aligned} & 25 t h \\ & \%-i l e \end{aligned}$ | $\begin{aligned} & 50 \text { th } \\ & \% \text { - ile } \end{aligned}$ | $\begin{aligned} & 75 \text { th } \\ & \% \text {-ile } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGHEST DEGREE BS |  |  |  |  |  |  |
| Total | 105 | 60,463 | 24,289 | 47,700 | 58,800 | 69,480 |
| 2-4 | 15 | 36,425 | 8,796 | 26,250 | 36,250 | 42,000 |
| 10-14 | 18 | 60.774 | 12.151 | 58,000 | 61.589 | 66,000 |
| 20-24 | 18 | 66,136 | 20,224 | 51,500 | 59.820 | 71.900 |
| MS |  |  |  |  |  |  |
| Total | 78 | 72,375 | 24,471 | 55,000 | 69,400 | 83.350 |
| 15-19 | 16 | 77,189 | 16,268 | 68,170 | 76.170 | 85,500 |
| 20-24 | 20 | 74,492 | 13,735 | 66.100 | 70,000 | 81,100 |
| PhD |  |  |  |  |  |  |
| Total | 133 | 82,577 | 27,297 | 66,900 | 76.100 | 93,000 |
| 10-14 | 26 | 68,185 | 7.434 | 62,000 | 69,000 | 74,000 |
| 15-19 | 18 | 67,592 | 19,685 | 60.000 | 70,875 | 79,000 |
| 20-24 | 22 | 83,625 | 18,804 | 69.000 | 83,340 | 95,000 |
| 25-29 | 21 | 93,004 | 18,318 | 83,318 | 86,000 | 108,000 |
| 30-34 | 19 | 106.186 | 40.399 | 83,950 | 94,050 | 120,000 |

Table 6.1.1
EMPLOYMENT STATUS OF ALL CHEMISTS by EMPLOYER TYPE
1996 Survey of ACS Members

|  | EMPLOYMENT STATUS |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Full. time | Part <br> time | Postdoc | Seeking empl | Not seeking empl | No Answer |  |
| EMPLOYER TYPE |  |  |  |  |  |  |  |
| Industry | 5006 | 50 | 22 | 170 | 100 | 0 | 5348 |
| Row Percent | 93.6\% | .9\% | .4\% | 3.2\% | 1.9\% | .0\% | 100.0\% |
| Column Percent | 63.8\% | 21.5\% | 9.3\% | 65.9\% | 49.0\% | .0\% | 60.9\% |
| Government | 571 | 10 | 28 | 13 | 12 | 0 | 634 |
| Row Percent | 90.1\% | 1.6\% | 4.4\% | 2.1\% | 1.9\% | .0\% | 100.0\% |
| Column Percent | 7.3\% | 4.3\% | 11.8\% | 5.0\% | 5.9\% | .0\% | 7.2\% |
| Other Nonacademic | 334 | 54 | 6 | 28 | 27 | 1 | 450 |
| Row Percent | 74.2\% | 12.0\% | 1.3\% | 6.2\% | 6.0\% | . $2 \%$ | 100.0\% |
| Column Percent | 4.3\% | 23.2\% | 2.5\% | 10.9\% | 13.2\% | 16.7\% | 5.1\% |
| High School | 113 | 10 | 0 | 2 | 9 | 0 | 134 |
| Row Percent | 84.3\% | 7.5\% | .0\% | 1.5\% | 6.7\% | .0\% | 100.0\% |
| Column Percent | 1.4\% | 4.3\% | .0\% | . $8 \%$ | 4.4\% | .0\% | 1.5\% |
| College or |  |  |  |  |  |  |  |
| University | 1710 | 106 | 174 | 38 | 39 | 2 | 2069 |
| Row Percent | 82.6\% | 5.1\% | 8.4\% | 1.8\% | 1.9\% | .1\% | 100.0\% |
| Column Percent | 21.8\% | 45.5\% | 73.4\% | 14.7\% | 19.1\% | 33.3\% | 23.5\% |
| No answer | 115 | 3 | 7 | 7 | 17 | 3 | 152 |
| Row Percent | 75.7\% | 2.0\% | 4.6\% | 4.6\% | 11.2\% | 2.0\% | 100.0\% |
| Column Percent | 1.5\% | 1.3\% | 3.0\% | 2.7\% | 8.3\% | 50.0\% | 1.7\% |
| Total | 7849 | 233 | 237 | 258 | 204 | 6 | 8787 |
| Row Percent | 89.3\% | 2.7\% | 2.7\% | 2.9\% | 2.3\% | .1\% | 100.0\% |
| Column Percent | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |

Table 6.1.2
EMPLOYMENT STATUS OF ALL CHEMISTS
by HIGHEST DEGREE
1996 Survey of ACS Members

|  | EMPLOYMENT STATUS |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Full- <br> time | Part- <br> time | Postdoc | Seeking empl | Not seeking empl | No Answer |  |
| HIGHEST DEGREE BS | 2012 | 65 | 14 | 77 | 75 | 1 | 2244 |
| Row Percent | 89.7\% | 2.9\% | .6\% | 3.4\% | 3.3\% | . $0 \%$ | 100.0\% |
| Column Percent | 25.7\% | 28.0\% | 5.9\% | 30.2\% | 37.1\% | 16.7\% | 25.6\% |
| MS | 1337 | 53 | 9 | 41 | 47 | 1 | 1488 |
| Row Percent | 89.9\% | 3.6\% | 6\% | 2.8\% | 3.2\% | 1\% | 100.0\% |
| Column Percent | 17.1\% | 22.8\% | 3.8\% | 16.1\% | 23.3\% | 16.7\% | 17.0\% |
| PhD | 4474 | 114 | 214 | 137 | 80 | 4 | 5023 |
| Row Percent | 89.1\% | 2.3\% | 4.3\% | 2.7\% | 1.6\% | .1\% | 100.0\% |
| Column Percent | 57.2\% | 49.1\% | 90.3\% | 53.7\% | 39.6\% | 66.7\% | 57.4\% |
| Total | 7823 | 232 | 237 | 255 | 202 | 6 | 8755 |
| Row Percent | 89.4\% | 2.6\% | 2.7\% | 2.9\% | 2.3\% | . $1 \%$ | 100.0\% |
| Column Percent | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% | 100.0\% |

Table 6.1.3
EMPLOYMENT STATUS OF ALL CHEMISTS
by AGE
1996 Survey of ACS Members

|  | EMPLOYMENT STATUS |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fulltime | Parttime | Postdoc | Seeking empl | Not seeking empl | No Answer |  |
| AGE <br> 20-24 <br> Row Percent <br> Column Percent | $\begin{gathered} 181 \\ 84.2 \% \\ 2.3 \% \end{gathered}$ | $\begin{aligned} & 12 \% \\ & 5.6 \% \\ & 5.2 \% \end{aligned}$ | $\begin{aligned} & 6 \\ & 2.8 \% \\ & 2.5 \% \end{aligned}$ | $\begin{aligned} & 3.8 \% \\ & 3.1 \% \end{aligned}$ | $\begin{aligned} & 8.8 \% \\ & 3.9 \% \end{aligned}$ | 0 $.0 \%$ $.0 \%$ | $\begin{gathered} 215 \\ 100.0 \% \\ 2.4 \% \end{gathered}$ |
| 25-29 Row Percent Column Percent | $\begin{gathered} 587 \\ 81.0 \% \\ 7.5 \% \end{gathered}$ | $\begin{aligned} & 21 \% \\ & 2.9 \% \\ & 9.0 \% \end{aligned}$ | $\begin{gathered} 85 \\ 11.7 \% \\ 35.9 \% \end{gathered}$ | $\begin{gathered} 23 \\ 3.2 \% \\ 8.9 \% \end{gathered}$ | $\begin{gathered} 9 \\ 1.2 \% \\ 4.4 \% \end{gathered}$ | 0 $.0 \%$ $.0 \%$ | $\begin{gathered} 725 \\ 100.0 \% \\ 8.3 \% \end{gathered}$ |
| 30-34 Row Percent Column Percent | $\begin{aligned} & 1079 \\ & 87.2 \% \\ & 13.7 \% \end{aligned}$ | $\begin{gathered} 25 \\ 2.0 \% \\ 10.7 \% \end{gathered}$ | $\begin{gathered} 96 \\ 7.8 \% \\ 40.5 \% \end{gathered}$ | $\begin{gathered} 23 \\ 1.9 \% \\ 8.9 \% \end{gathered}$ | $\begin{aligned} & 15 \\ & 1.2 \% \\ & 7.4 \% \end{aligned}$ | $\begin{gathered} 0 \\ .0 \% \\ .0 \% \end{gathered}$ | $\begin{gathered} 1238 \\ 100.0 \% \\ 14.1 \% \end{gathered}$ |
| 35-39 Row Percent Column Percent | $\begin{aligned} & 1277 \\ & 91.1 \% \\ & 16.3 \% \end{aligned}$ | $\begin{gathered} 35 \\ 2.5 \% \\ 15.0 \% \end{gathered}$ | $\begin{array}{r} 35 \\ 2.5 \% \\ 14.8 \% \end{array}$ | $\begin{array}{r} 35 \\ 2.5 \% \\ 13.6 \% \end{array}$ | $\begin{aligned} & 18 \\ & 1.3 \% \\ & 8.8 \% \end{aligned}$ | $\begin{array}{r} 2 \\ 3 .{ }^{2} \% \\ 33.3 \% \end{array}$ | $\begin{gathered} 1402 \\ 100.0 \% \\ 16.0 \% \end{gathered}$ |
| 40-44 Row Percent Column Percent | $\begin{aligned} & 1189 \\ & 93.0 \% \\ & 15.1 \% \end{aligned}$ | $\begin{gathered} 33 \\ 2.6 \% \\ 14.2 \% \end{gathered}$ | $\begin{array}{r} 6 \\ .5 \% \\ 2.5 \% \end{array}$ | $\begin{gathered} 42 \\ 3.3 \% \\ 16.3 \% \end{gathered}$ | $\begin{array}{r} 8 \\ .6 \% \\ 3.9 \% \end{array}$ | 0 $.0 \%$ $.0 \%$ | $\begin{gathered} 1278 \\ 100.0 \% \\ 14.5 \% \end{gathered}$ |
| 45-49 Row Percent Column Percent | $\begin{aligned} & 1060 \\ & 93.9 \% \\ & 13.5 \% \end{aligned}$ | $\begin{aligned} & 11 \\ & 1.0 \% \\ & 4.7 \% \end{aligned}$ | $\begin{gathered} 5 \\ .4 \% \\ 2.1 \% \end{gathered}$ | $\begin{gathered} 46 \\ 4.1 \% \\ 17.8 \% \end{gathered}$ | $\begin{array}{r} 6 \\ .5 \% \\ 2.9 \% \end{array}$ | $\begin{array}{r} 1 \\ 16.1 \% \end{array}$ | $\begin{gathered} 1129 \\ 100.0 \% \\ 12.8 \% \end{gathered}$ |
| 50-54 Row Percent Column Percent | $\begin{aligned} & 1064 \\ & 93.4 \% \\ & 1.6 \% \end{aligned}$ | $\begin{aligned} & 19 \\ & 1.7 \% \\ & 8.2 \% \end{aligned}$ | 2 $.2 \%$ $.8 \%$ | $\begin{gathered} 39 \\ 3.4 \% \\ 15.1 \% \end{gathered}$ | $\begin{gathered} 15 \\ 1.3 \% \\ 7.4 \% \end{gathered}$ | 0 $.0 \%$ $.0 \%$ | $\begin{gathered} 1139 \\ 100.0 \% \\ 13.0 \% \end{gathered}$ |
| 55-59 Row Percent Column Percent | $\begin{aligned} & 804 \\ & 91.4 \% \\ & 10.2 \% \end{aligned}$ | $\begin{gathered} 32 \\ 3.6 \% \\ 13.7 \% \end{gathered}$ | 1 $.1 \%$ $.4 \%$ | $\begin{aligned} & 25 \\ & 2.8 \% \\ & 9.7 \% \end{aligned}$ | $\begin{aligned} & 17 \\ & 1.9 \% \\ & 8.3 \% \end{aligned}$ | $\begin{array}{r} 1 \\ 16.7 \% \end{array}$ | $\begin{gathered} 880 \\ 100.0 \% \\ 10.0 \% \end{gathered}$ |
| 60-64 Row Percent Column Percent | $\begin{array}{r} 442 \\ 83.2 \% \\ 5.6 \% \end{array}$ | $\begin{array}{r} 25 \\ 4.7 \% \\ 10.7 \% \end{array}$ | $\begin{aligned} & 0 \\ & .0 \% \\ & .0 \% \end{aligned}$ | $\begin{aligned} & 14 \\ & 2.6 \% \\ & 5.4 \% \end{aligned}$ | $\begin{array}{r} 48 \\ 9.0 \% \\ 23.5 \% \end{array}$ | $\begin{array}{r} 2 \\ 33.4 \% \\ \hline 3 \% \end{array}$ | $\begin{array}{r} 531 \\ 100.0 \% \\ 6.0 \% \end{array}$ |
| 65-69 Row Percent Column Percent | $\begin{gathered} 164 \\ 66.4 \% \\ 2.1 \% \end{gathered}$ | $\begin{aligned} & 20 \\ & 8.1 \% \\ & 8.6 \% \end{aligned}$ | $1 \%$ $.4 \%$ $.4 \%$ | $\begin{aligned} & 3 \\ & 1.2 \% \\ & 1.2 \% \end{aligned}$ | $\begin{gathered} 59 \\ 23.9 \% \\ 28.9 \% \end{gathered}$ | 0 $.0 \%$ $.0 \%$ | $\begin{gathered} 247 \\ 100.0 \% \\ 2.8 \% \end{gathered}$ |
| 70 or more Row Percent Column Percent | $\begin{array}{r} 2 \\ 66.7 \% \\ .0 \% \end{array}$ | 0 $.0 \%$ $.0 \%$ | 0 $.0 \%$ $.0 \%$ | 0 $.0 \%$ $.0 \%$ | $\begin{gathered} 1 \\ 33.3 \% \\ .5 \% \end{gathered}$ | 0 $.0 \%$ $.0 \%$ | $\begin{array}{r} 3 \\ 100.0 \% \\ .0 \% \end{array}$ |
| Total Row Percent Column Percent | $\begin{gathered} 7849 \\ 89.3 \% \\ 100.0 \% \end{gathered}$ | $\begin{array}{r} 233 \\ 2.7 \% \\ 100.0 \% \end{array}$ | $\begin{gathered} 237 \\ 2.7 \% \\ 100.0 \% \end{gathered}$ | $\begin{array}{r} 258 \\ 2.9 \% \\ 100.0 \% \end{array}$ | $\begin{array}{r} 204 \\ 2.3 \% \\ 100.0 \% \end{array}$ | 6 $100.0 \%$ | $\begin{gathered} 8787 \\ 100.0 \% \\ 100.0 \% \end{gathered}$ |

American Chemical Society

1155 SIXTEENTH STREET, N.W. WASHINGTON, D.C. 20036
PHONE (202) 872-4534
JOHN K CRU
Executive Director
February 23, 1996

## Dear Colleague:

Each year, the American Chemical Society studies the salaries and economic status of the U.S. chemical profession by surveying a sample of its members. You are one of the 20,000 members 1 am asking to participate in this survey, conducted under the aegis of the Council Committee on Economic and Professional Affairs.

Your participation is an important service to your colleagues. As you know, a high response rate is needed to assure accurate results. Please take a few minutes now to complete the questionnaire and return it in the enclosed business reply envelope. Your responses are strictly confidential. Your name and address will not be coupled with the information you provide. A code is included only to enable us to cross your name off our follow-up list once we have received your completed questionnaire. The information you provide will be combined with that from other members and only the aggregate data will be available.

The findings will be reported to ACS members in several ways. Early in the summer, Chemical \& Engineering News will publish a cover story on the salaries and employment status of chemists. At about the same time, the ACS will publish a detailed report entitled "Salaries 1996."

Please feel free to use the back of the questionnaire for comments and suggestions that you might care to make.

Thank you for your assistance.


JKC/mwj
Enclosure

## 1996 Comprehensive Salary and Employment Status Survey

Please complete and return as soon as possible in the envelope provided.
Thank you for your participation.

MARKING INSTRUCTIONS
Use a No: 2 pencil or blue or black ink pen only
Do not ase pens, with thk that soak through the paper

- Make solid maks that fil the oval complerely
- Make no straysmarks on this form:


## EDUCAIION AND EMPLOYMENT STATUS

1. What is the highest degree you have received to date: (Fill in one)

Less than Bachelors
Bachelor's!


. Please fill in the year for each degree you have earned.


Please check the appropriate box in each column.

|  | Field of highest degree | The ONE specialty most related to your current or most recent job |
| :---: | :---: | :---: |
| Chemical engineering |  | W\% (11) |
| Biochemistry | (02) | (02) |
| Biotechnology . | 03 | \% 03) |
| General chemistry | (04) | (04) |
| Agricultural/food chemistry | (05) |  |
| Analytical chemistry | (06) | (06) |
|  | 07 | ¢ ${ }^{2}$, 67), |
| Environmental chemistry | (08) | $\cdots$ |
| Inorganic chemistry |  | $\cdots$ ©9 \% |
| Materials science | (10) | (10) |
| Medicinal/pharmaceutical chemistry | (11) | (111) |
| Organic chemistry | (12) | (12) |
| Physical chemistry, $\quad \because \quad \because$ | (13) | $\because$ (13) |
| Polymer chemistry |  | (14) |
| Other chemical science |  | (15) |
| Business administration | (16) | (16) |
| Computer science | (17) | : (17) |
| Law | (18) | (18) |
| Other non-chemistry | (19) | $\therefore$ (19) |

4. Please enter your primary employment status as of March 1, 1996. Choose the one category that best fits your situation. (Fill in one)

| Employed full time (3) |  | Go to 5 |
| :---: | :---: | :---: |
| Employed part-time | (2) | Skip to 7 |
| Postdoctoral or other fellowship | ) | Skip to 7 |
| Not employed but actively seeking employment | (4) | Skip to 6 |
| Not employed and NOT seeking employment | ( | Skip to 7 |

5. If you are currently employed FULL-TIME, is your job permanent or temporary? (Fill in one)

6. If you were NOT EMPLOYED BUT ACTIVELY SEEKING

EMPLOYMENT on March 1, 1996 how long had you been unemployed? (Fill in one)

Less than 1 month
0
1 to 3 months
(2)

4 to 6 months
7 to 12 months
(4)

More than 1 year
N-
(b)
7. Regardless of your current status, was there any period when you were NOT EMPLOYED AND ACTIVELY SEEKING EMPLOYMENT in calendar year 1995? (Fill in one)
(1) Yes
(2) No

IF YES, how many total months were you NOT EMPLOYED AND ACTIVELY SEEKING EMPLOYMENT during calendar year 1995? (Fill in one)
(1) Less than 1 month
(3) 4 to 6 months
(5) $\mathbf{1 2}$ months
(2) 1 to 3 months
(4) 7 to 11 months
8. If you are CURRENTLY EMPLOYED, how long have you worked for your current employer?
(Fill in one)
(i) Less than 1 year
(3) 5 to 9 years
(2) 1 to 4 years
(4) 10 to 19 years
(5) 20 or more
9. Do you do any consulting? (Fill in one)
(1) Yes
(2) No

If yes, how many hours per month? (Fill in one)
(1) Less than 10 hrs
(3) $20-39 \mathrm{hrs}$
(2) $10-19 \mathrm{hrs}$
(4) 40-99 hrs
(5) 100 or more
hrs
10. Whíare the first three digits of the ZIP CODE of your current or most recent place of employment?

## WWK QUESTIONS ABOUT YOURSELF

1. Your sex:
(1) Male
(2) Female
2. Your age at last birthday before March 1, 1996:

3. Your citizenship or visa status: (Fill in one)

4. What is your background? (Fill in one)

5. Are you of Hispanic origin or descent? (Fill in one)

(1) Yes<br>(2) No<br>\section*{IF YOU ARE EMPLOYED, EITHER FULL-TIME OR PARTTIME. PLEASE ANSWER CURRENT INCOME AND JOB EVALUATION.}

IF YOU ARE NOT CURRENTLY EMPLOYED, PLEASE SKIP TO CURRENT OR MOST RECENT PRIMARY JOB.

## CURRENT INCOME AND JOB EVALUATION

In filling out questions, please follow example below:

1. BASE ANNUAL SALARY from PRINCIPAL JOB as of March 1, 1996.
(DO NOT INCLUDE bonuses, earnings from second job, overtim work, summer teaching, or other supplemental earnings.) If on a or 10 month contract, report the 9 or 10 month salary rather tha an annualized salary.
\$

\$

2. TOTAL PROFESSIONAL INCOME during calendar year 1995 (INCLUDE consulting fees, base annual salary, bonuses; earning from second job, overtime, summer teaching, and other supplemental earnings.)

3. What was your SALARY LAST YEAR? Please indicate your b annual salary from principal job as of March 1, 1995. (DO NOT INCLUDE bonuses, earnings from second job, overtime work, summer teaching, or other supplemental earnings.) If on a or 10 month contract, report the 9 or 10 month salary rather thar an annualized salary.

4. If you do any CONSULTING, what is your HOURLY RATE?

5. What was your TOTAL CONSULTING INCOME during calendar year 1995?


## CURRENI OR MOSTRRECENT PRIMARY JOB

IF YOUR CURRENT OR MOST RECENT EMPLOYER IS NOT AN ACADEMIC INSTITUTION, GO TO SECTION B.

## A. CURRENT OR MOST RECENT EMPLOYMENT IS IN AN ACADEMIC INSTITUTION.

1. Current (or most recent) principal employer:

College or university where the highest degree offered in
chemistry or chemical engineering is:


## 3. Your academic rank: (Fill in one)

Full professor


Associate professor
Assistant professor
Visiting or adjunct professor, instructor, lecturer Non-teaching research appointment
Other non-faculty
My institution does not have ranks
4. Have you been granted tenure? (Fill in one)

5. Your basic contract is for a period of: (Fill in one) (1) 9 or 10 months 11 or 12 months
6. About what fraction of your total working time in the academic year is devoted to: (Fill in all that apply)

| Teaching | 1-25\% | -26-33\% | 34-50\% | -51-66\% | -67-75\% | 76-100\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Research | 1-25\% | -26.33\% | -34-50\% | -51-66\% | -67-75\% | 76 |
| Administration | -1-25\% | -26-33\% | 34-50\% | $\bigcirc 51-66 \%$ | 67.75\% | 76-100 |
| Other | -1-25\% | -26-33\% | -34-50\% | -51-66\% | 67-75\% | $0^{7}$ |

B. CURRENT OR MOST RECENT EMPLOYMENT IS NOT IN AN ACADEMIC INSTITUTION.

1. Current (or most recent) principal employer:


Manufacturing company primarily involved in:


Other nonacademic employer:
Hospital, independent laboratory, (3)

Non-profit organization, other research institution (29)
Other employment


5. Were you eligible for a bonus during calendar 1995 ?
(1) Yes
(2) No
(3) Not applicable
6. Did you receive a bonus during calendar 1995 ?
(1) Yes
(2) No
(3) Not applicable

IF YES, please indicate amount

7. How many people do you supervise, directly or indirectly? (Fill in all that apply.)

| Professionals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\bigcirc 0$ - 1-2 | $\bigcirc 3.9$ | $\bigcirc 10-14$ | $\bigcirc 15-29$ | -30-49 | $\bigcirc 50.99$ |
| Technicians |  |  |  |  |  |
| $\bigcirc 0$ O1-2 | O-9 | $\bigcirc 10-14$ | -15-29 | $\bigcirc 30-49$ | $\bigcirc 50 \cdot 99$ |

Others, including production workers
$\qquad$ O3-9
○ $10-14$ 15-29 O30-4950-99
$\sigma_{0}$

Comments:

## Employment Data and Information Resources

## Employment Data: ACS, Department of Career Services

| Annual ACS Comprehen | Status Survey available summer |
| :---: | :---: |
| Starting Salary Survey of | and Chemical Engineering |
| All Member Survey | available winter |
|  | available every five years |
| Women Chemists Report |  |
|  | available every five years |

## Special Studies: ACS, available from Department of Career Services

## - 1995 Employment Patterns of Recent Doctorates in Chemistry

- 1994 Current Trends in Chemical Technology, Business, and Employment


## Journals, Magazines, and Newspapers



## OTHER ACS CAREER SERVICES PUBLICATIONS

Employer Mailing List is the mailing list used to solicit employers for ACS employment services. It is arranged by state, and can be purchased for $\$ 10$. Use of this mailing list is restricted to personal use only.

ACS Career, Employment and Professional Resources: A Catalog of Publications, Programs \& Services. This brochure lists all ACS career resources for high school and college students exploring career options; professionals seeking employment in chemistry and allied fields; and individuals facing the challenges of career development, career changes, and retirement.

For prices and ordering information, please call or write:
ACS Membership Service Center
4000 Olson Memorial Highway
PO Box 9389
Minneapolis, MN 55422-9389
Phone: 800/451-9190 or 612/520-6798
Fax: 612/520-6706

## ON-LINE CAREER SERVICE EMPLOYMENT PROGRAMS

Department of Career Services information on publications and programs is available through the ChemCenter. Visit the "Professional Services" section at ChemCenter to view employment information for ACS members. http://www.chemcenter.org.

JOB BANK. The ACS Job Bank includes classified and display ads from the two most recent issues of Chemical \& Engineering News (C\&EN). The ACS Job Bank is updated weekly. Links to other online job banks and World Wide Web pages of major companies are also included. The Job Bank is available on the ACS Website.

C\&EN Situation Wanted Ads. Employed ACS members and student affiliates may place an ad in C\&EN at $\$ 6.60$ a line per insertion, no minimum charge. Unemployed ACS members, student affiliates, and retired members may place free situations wanted ads; certain restrictions apply.


[^0]:    American Chemical Society
    1155 16th Street, NW
    Washington, DC 20036
    December 1996

[^1]:    1. The tables supplied with this edition are those that account for age- or experience-specific rates with "years since BS", and rank for academics. It is suggested that the reader use those "years since BS" and rank categories for higher confidence level in the data supplied.
    2. For salaries overall, the younger age difference somewhat offsets the increased industrial representativeness. For salaries also, the regional difference is not as significant in this instance, as the Pacific Region generally closely follows the national medians. Thus, the overall salaries are from younger respondents, but at the same time a sample from a more industry-employed group than usual.
[^2]:    3. The adjustment for inflation used the CPI-U, Consumer Price Index-Urban, which increased 2.8 percent from March 1995 to March 1996. The CPI-U serves as an approximation for national inflation.
[^3]:    4. Overall 1996 employment statuses other than full-time may be slightly overstated for the ACS membership in general. This is because, traditionally, younger chemists and chemists employed in industry tend to have higher rates of employment in statuses other than full-time employment.
    5. Relevant publications from the U.S. Bureau of Labor Statistics and National Science Foundation are listed
    at the end of this report with Information Sources.
[^4]:    Note: Categories with fewer than 15 cases are not shown.

