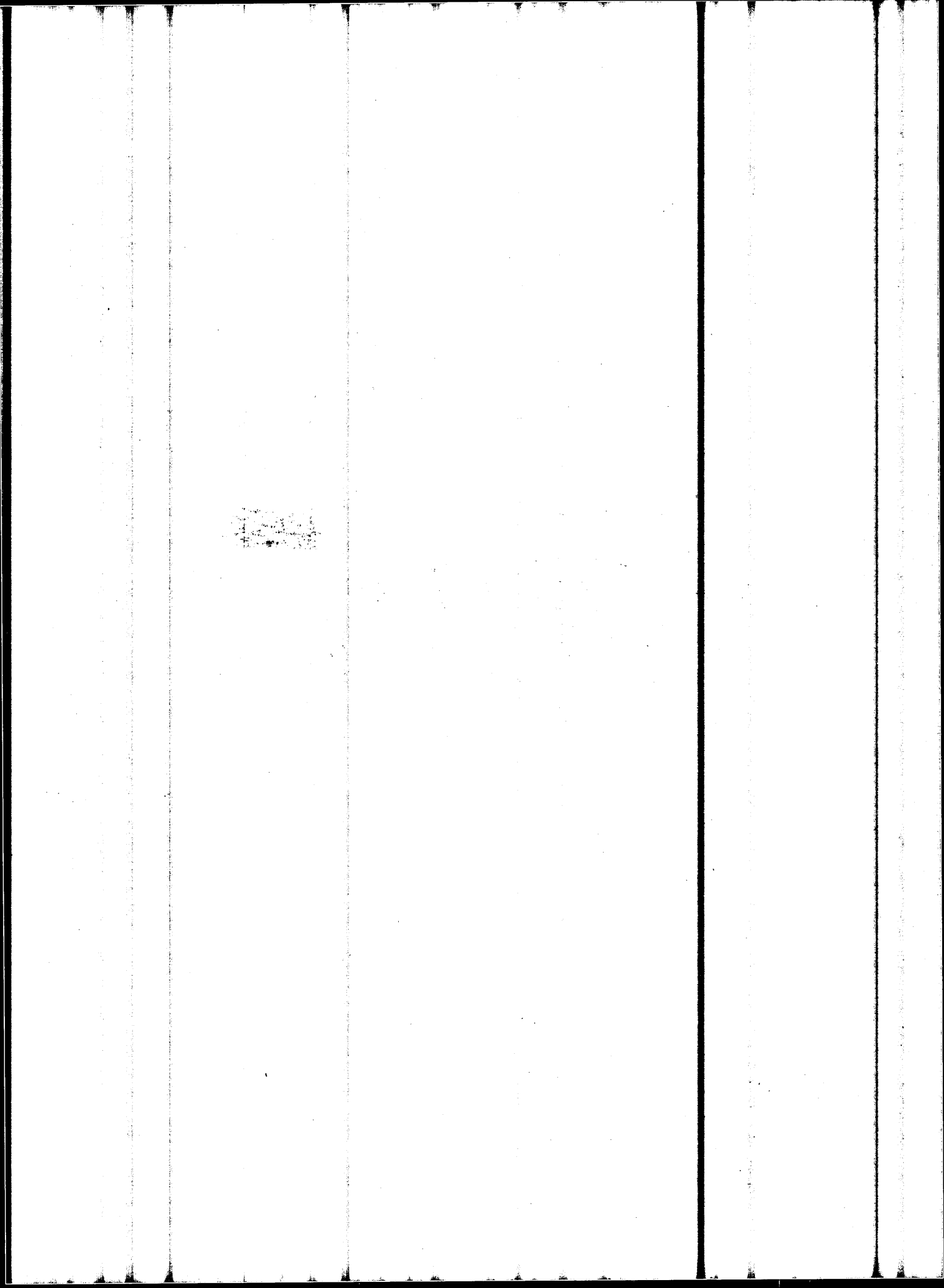


SALARIES 1997

**ANALYSIS OF THE
AMERICAN CHEMICAL SOCIETY'S
1997 COMPREHENSIVE SALARY
AND EMPLOYMENT STATUS SURVEY**



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



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American Chemical Society
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ACKNOWLEDGMENTS

This report presents detailed results of the 1997 ACS Comprehensive Salary and Employment Status Survey. A summary of the survey findings was published in the July 28, 1997 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 1997. The committee is grateful to the nearly 11,000 members 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, with assistance from Meghann McLouth, NSF intern.

Jean Parr, Head
Department of Career Services

SUMMARY AND COMMENT

After nearly a decade of either mixed or poor economic news, data from the American Chemical Society's 1997 Comprehensive Salary and Employment Status Survey showed strong signs for chemists' economic recovery. The unemployment rates declined sharply from last year. At the same time, the percentage of respondents showing full-time employment rose. Salaries for full-time working respondents showed impressive gains, with chemists' gains outpacing the estimated inflation rate¹. Chemical engineers showed a slower salary growth than in past years, but also showed a sharp decline in unemployment.

SALARIES

Median base salaries increased in current dollars between 1996 and 1997 for chemists and chemical engineers alike. Overall, chemists working full-time and at all degree levels gained salary increases exceeding the rate of inflation. All subgroups of chemists showed increases in base salary and most often increases greater than the estimated inflation rate. Chemical engineers showed increases that either outpaced the inflation rate or remained even. For subgroups of chemists, industrial chemists remained the highest paid, followed by government chemists and academic chemists, except for full professors. The breakdown of chemists by gender showed women PhDs close to holding their own compared to men, until about age 45. Other than this group, salaries of women chemists lagged behind their male counterparts.

Chemists

For the first time since 1987, bachelor's chemists showed strong increases in salaries. During the past decade, bachelor's chemists have showed no real growth in salaries. Their 1996-97 growth rate of almost 7 percent after inflation marks a long-awaited improvement in their salary position. While not as strong, both the master's and doctorate chemists also posted healthy salary gains this past year.

<i>Degree</i>	<i>Median Salary</i>	<i>Change from 1996 (current dollars)</i>	<i>Change from 1996 (constant dollars)</i>
Bachelor's	49,400	up 9.7%	up 6.9%
Master's	56,200	up 4.8%	up 2.0%
Doctorate	71,000	up 4.4%	up 1.6%

1. The adjustment for inflation used the CPI-U, Consumer Price Index-Urban, which increased 2.8 percent from March 1996 to March 1997. The CPI-U serves as an approximation for national inflation.

Chemical Engineers

For chemical engineers employed full-time, the bachelor's degree holders gained more than the other degree categories. Those with masters experienced a small increase between 1996 and 1997, while the doctorate remained relatively stagnant, after several years of strong growth in salaries. Median salaries for chemical engineers were:

Degree	Median Salary	Change from 1996 (current dollars)	Change from 1996 (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

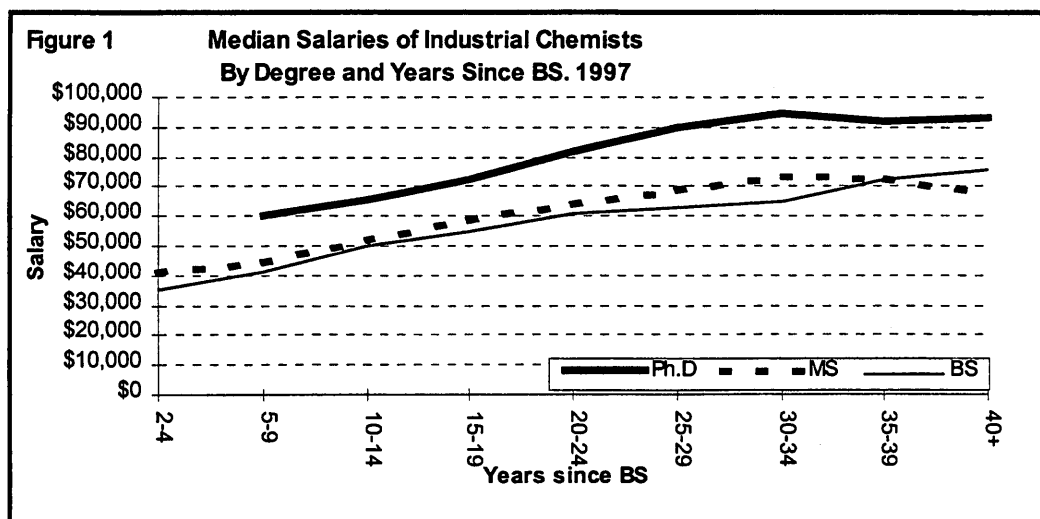
All categories of academics showed gains in annual salaries. However, only half of the academic groups showed growth that outpaced inflation. Regardless of contract periods, full professors gained impressive salary increases between 1996 and 1997. Associate professors with 11/12 month contracts also showed strong growth in salaries.

Rank/Contract	Median Salary	Change from 1996 (current dollars)	Change from 1996 (constant dollars)
Full 9/10	65,000	up 4.8%	up 2.0%
Full 11/12	93,100	up 4.2%	up 1.4%
Assoc 9/10	46,000	up 2.2%	down 0.6%
Assoc 11/12	63,000	up 5.0%	up 2.2%
Asst 9/10	39,400	up 2.4%	down 0.4%
Asst 11/12	50,300	up 0.6%	down 2.2%

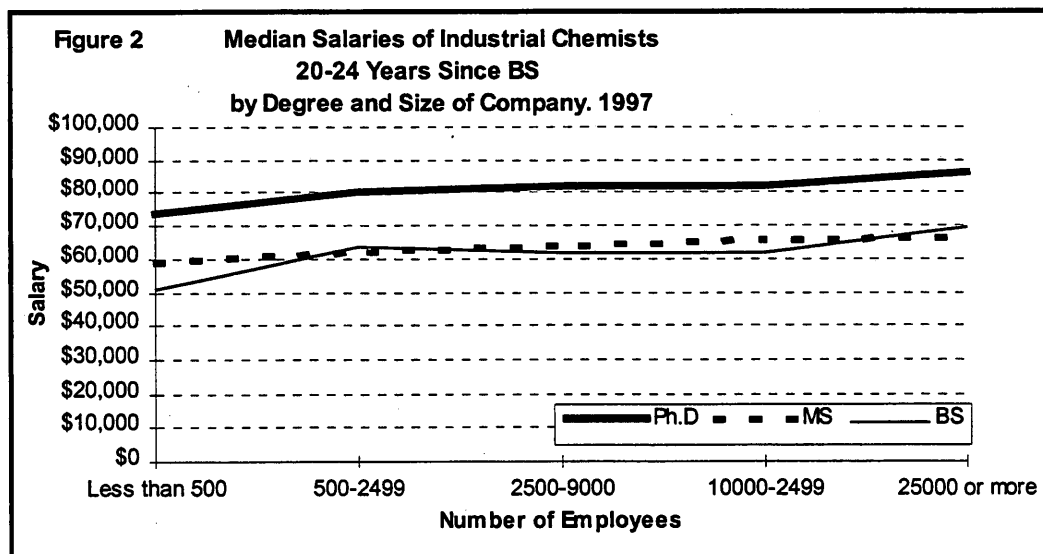
The greatest influences on academic salaries are academic rank, length of contract, school type and work function. Academic salaries are generally higher for full professors, those working in public institutions, those working in departments granting PhDs, and those in research.

Industrial Chemists

Several factors dominate the salaries of industrial chemists. Chief amongst those factors are length of experience, degree, the size of the company, and the amount of responsibility of the job. Figure 1 shows salaries factored by degree and length of experience. Chemists' base salaries rise steadily for the first 20-25 years, then plateau for the master's and doctorate chemists. Bachelor's chemists' salaries rise continuously throughout their years in industry.



Regardless of the job, a direct positive correlation exists between salary and the number of employees working for a company. An example, given in Figure 2, shows the correlation appearing strongest for the bachelor's chemists with 20-24 years since earning their BS degree. In moving from small through midsize to very large firms, median salaries can vary up to \$20,000 for bachelor's, \$15,000 for the PhDs, and almost \$9,000 for the Master's chemists 20-24 years from their BS degrees. This can be explained partially by the career movement of most bachelor's chemists away from the bench and into other types of jobs within the industry², such as marketing and management. This is especially true with larger employers.



2. In 1993, the National Science Foundation conducted the first study of college graduates linking degree to job. Their findings suggest about 70 percent of BS chemists who work in industry switch to jobs away from the "chemist" position during their career.

Individual Chemists' Salaries

The median increase for all chemists is not the same as median increases in salary received by individual chemists. The overall median is affected by factors such as the aging of the workforce in general and changes in the employer mix of respondents from year-to-year.

To determine the increase in individual chemists salaries, the survey asked for base salary in both 1996 and 1997. Most individual chemists who worked for the same employer for more than one year showed healthy gains in 1997. Over 85 percent of government chemists showed increases in pay, followed by slightly over 80 percent of industrial chemists and over 75 percent of academic chemists.

Chemists who received raises in the past year showed median individual salary increases exceeding the inflation factor. Chemists in industry posted the highest raises with an overall median raise of 4.8 percent, followed by a 4.1 percent raise in academia. The highest proportion of chemists showing individual gains worked for government; however, they posted the lowest individual gains at 3.8 percent.

Chemists between the ages of 20 and 29 garnered higher salary increases than any other age group with an overall median increase of 7.1 percent. Regardless of employer type, chemists with bachelor degrees earned larger proportional raises between 1996 and 1997 than did chemists with graduate degrees. It should be noted that bachelor's chemists tend to have lower salaries. Thus, while they have higher proportional individual raises, they generally have lower raises in actual dollar amounts.

Non-Salary Income

Base salary is not the only source of income for most chemists. Most non-salary income comes from bonuses and from consulting. Bonuses are proportionally more prevalent in industry and consulting is proportionally more prevalent in academia.

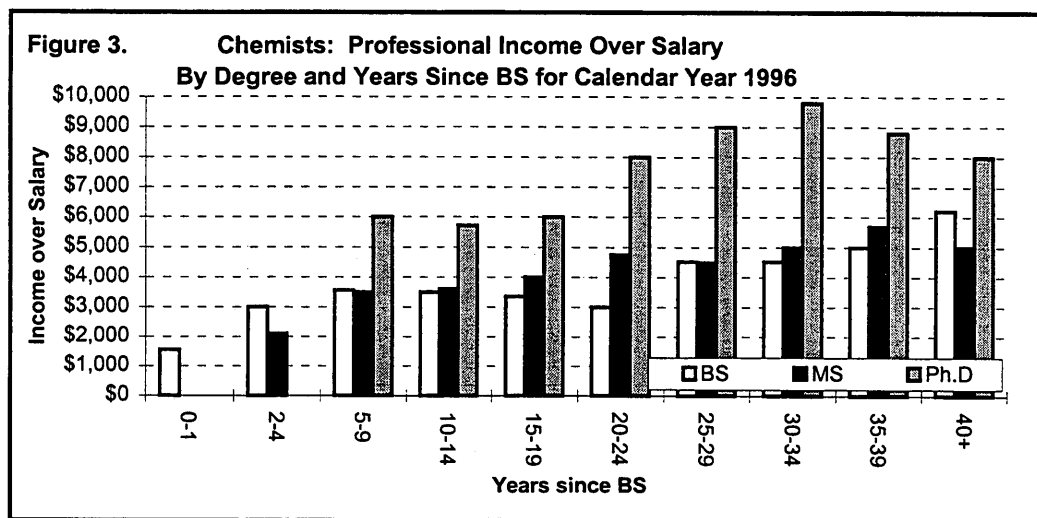
Consulting was a source of income for about 13 percent of all chemists, down from over 18 percent in 1995. The majority of chemists who consult, 56 percent, claim academia as their primary employer. More than two-thirds of those who said they consulted, did so less than 10 percent of their time per month. Only 7 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.

More than a third of all chemists received bonuses. Almost 90 percent of those who received bonuses worked in industry. Well over half, or 56 percent, of the industrial chemists reported receiving a bonus in the past year. The median amount of bonuses reported by industrial chemists was \$5,000, up from \$4,000 in 1996 and \$3,000 in the prior year. Industrial bonuses were closely tied to the size of the company, degree and

work function. Larger companies gave higher bonuses. The median bonus for companies with fewer than 500 employees was \$3,600 as compared to \$7,000 for those in companies with more than 25,000 employees. However, smaller companies gave proportionately more bonuses. Chemists with higher degrees typically received higher amounts for bonuses, from \$2,700 for bachelor chemists to \$4,000 for masters and \$7,000 for PhDs. Management, both R&D and general, received bonuses almost or more than double that of chemists working in other functions.

Chemists' Total Profession Income

During the past decade, total compensation has rapidly gained importance when considering remuneration for work. Rapid increases in health care costs and social security have combined with productivity rewards to change the ways in which large segments of the workforce gain compensation. In many cases, base salary has become a shrinking proportion of a larger total compensation package. As noted in the previous section, more than a third of all chemists received bonuses and about 13 percent received additional income consulting. The survey asked respondents their base salary and total professional income for the calendar year 1996.



The vast majority of chemists had professional incomes higher than their base salaries. For instance, more than 75 percent of industrial, 67 percent of government, and 60 percent of academic BS chemists earned higher professional incomes than base salaries in 1996. Figure 3 shows the median differences between professional income and salary by years from BS for those who showed a difference in 1996. As might be expected, the differences were higher for PhDs and those with more experience in the workplace. Thus, while BS and younger chemists might have gained higher individual raises this past year, other forms of professional income were greater for those with more experience and education.

Trends in Chemists Salaries

As shown in Figure 4, salaries for chemists have generally grown in current dollars. Overall, chemists with doctorates have shown the greatest and most consistent increases during the past decade. Salaries for chemists with master's degrees rose more gradually, as did bachelor's chemists, until 1997.

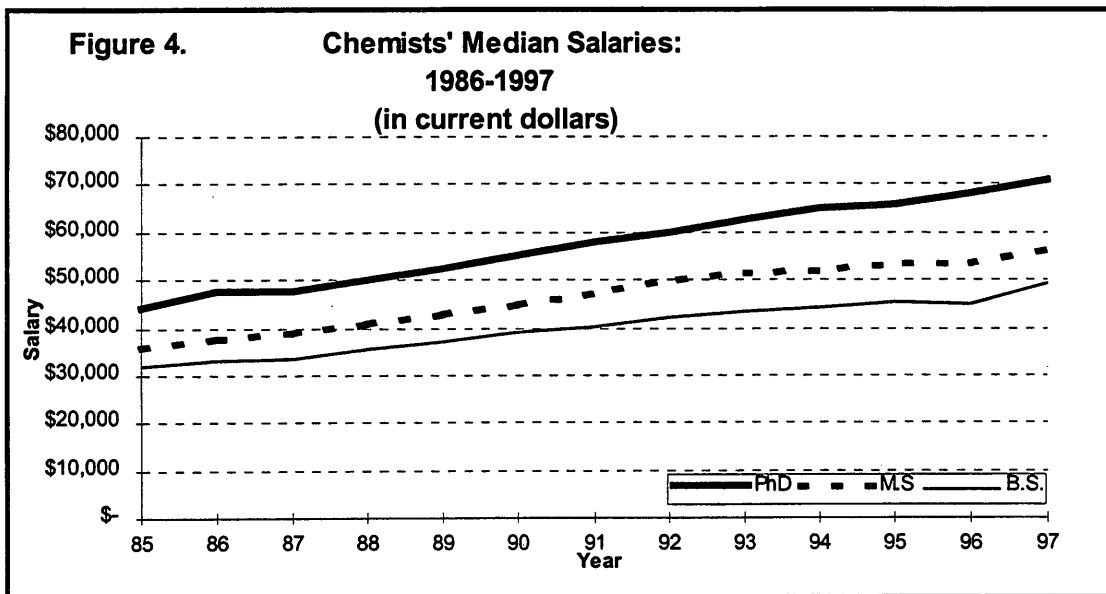
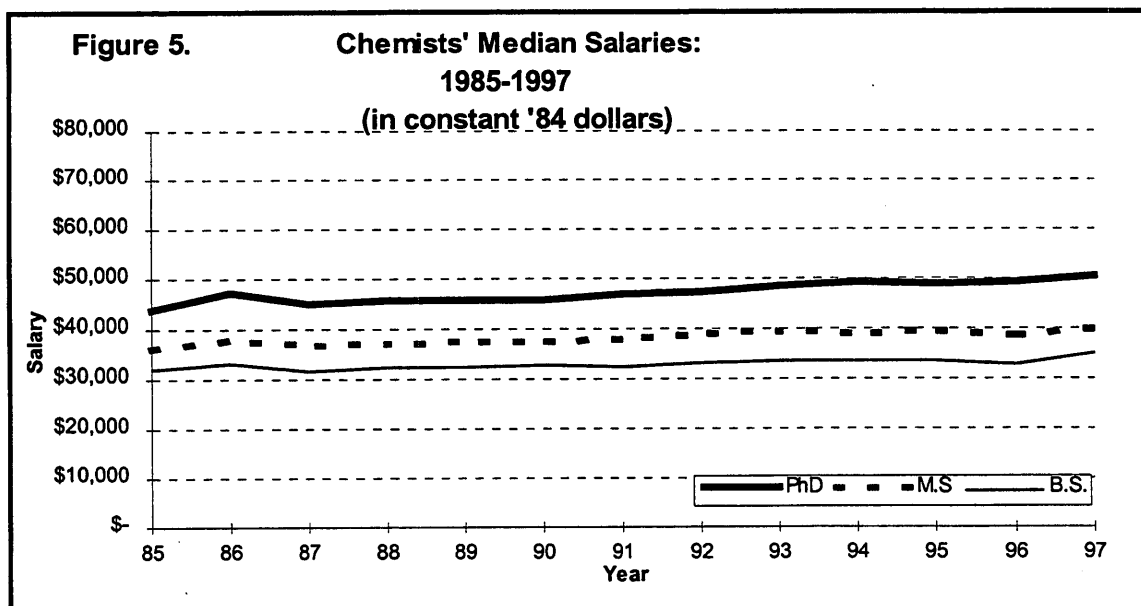


Figure 5 shows that chemists with doctorates regained their initial late-1980s loss in constant dollar salaries, and have steadily gained in real terms. Chemists with master's regained their initial late-1980 constant dollar loss and gained until 1992, then gained again in 1997. The bachelor's chemists' salaries barely regained constant dollar losses of the 1980s and actually fell behind in constant dollar gains for several years.



EMPLOYMENT AND UNEMPLOYMENT

Table 1

Employment Status by Work Specialty: 1994-1997

<i>Status</i>	<i>Chemical Engineering</i>			<i>Chemistry</i>		
	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>
Full-time	90.3%	90.7%	93.9%	88.8%	89.3%	90.5%
Part-time	2.4%	3.0%	1.5%	2.7%	2.7%	2.1%
Postdoc & fellowship	1.1%	0.8%	0.6%	3.5%	2.7%	2.3%
Unemployed & seeking	2.9%	2.3%	0.6%	2.5%	2.9%	1.9%
Not seeking employment	3.2%	3.2%	0.8%	2.6%	2.3%	0.8%
Fully Retired*			2.7%			2.8%
Total number in category	2,703	473	525	45,314	8787	9723

* "Fully Retired" status added to survey in 1997.

Employment

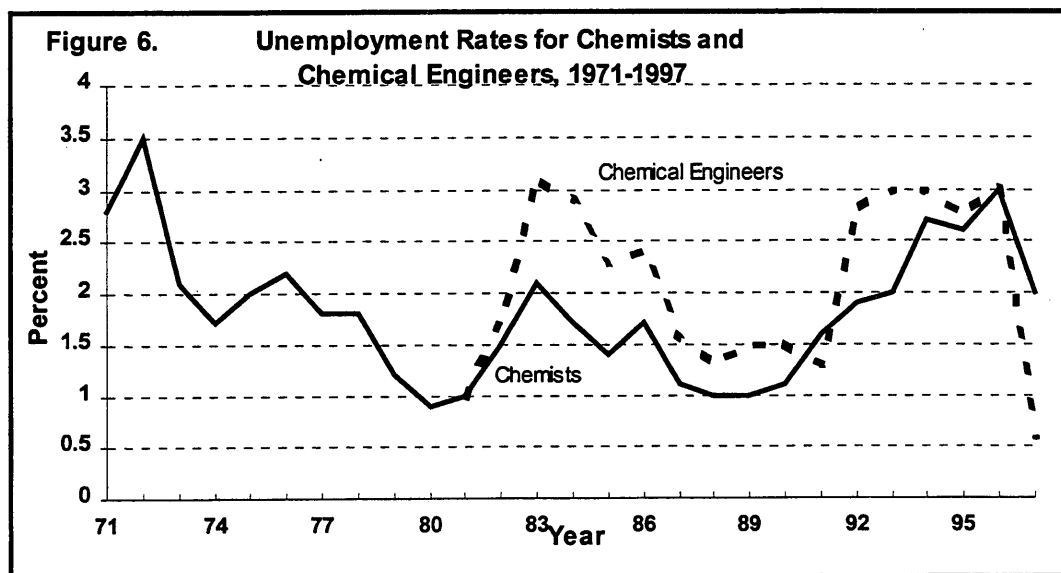
The employment statuses on March 1, 1997 for respondents working in chemistry or chemical engineering are presented in Table 1. The percent of chemical engineers seeking employment declined for the fourth year in a row, from a peak of 3.5 percent in 1993 to less than one percent in 1997. The 1.9 percent of chemists seeking employment declined precipitously from the 2.9%, or 30-year high, presented in 1996. The percent of chemists working full-time climbed to over 90 percent, the first such showing since 1990. The full-time rate for chemical engineers also climbed to the highest in the 1990s.

In line with the increase in full-time employment for both chemists and chemical engineers, part-time employment decreased for both groups. Those chemists in postdocs or fellowships decreased to near-1994 levels, from a high 3.5 percent in 1995 to 2.3 percent this year.

Finally, this year the option of "fully retired" was added to the status question on the survey. The combination of those reporting full retirement with those not seeking employment for other reasons, raised the proportion of those "not seeking" employment for both chemists and chemical engineers. The composite allowed an additional check to ensure analyses are run on the working membership. As with the comparative federal employment measures, the ACS analysis of the member workforce endeavors to include only those who are in the workforce.

Unemployment Trends for Chemists and Chemical Engineers

As Figure 5 shows, the unemployment trends for chemists and chemical engineers showed marked declines in 1997. Generally, chemical engineers have maintained higher unemployment rates than chemists. However, this year the data showed the unemployment rates for chemical engineers falling below that of chemists for only the second time in 15 years. In addition, the trends for chemists showed a marked decline, but unemployment rates were still higher than those of the mid-1980s.



The unemployment rate reflects the working status of respondents on one day in March. As shown below, the number and proportions of chemists who were unemployed and seeking work at some time the prior year is greater. This year's decline in chemistry unemployment also was mirrored in a decline in the proportion of chemists who had some unemployed period in the previous year.

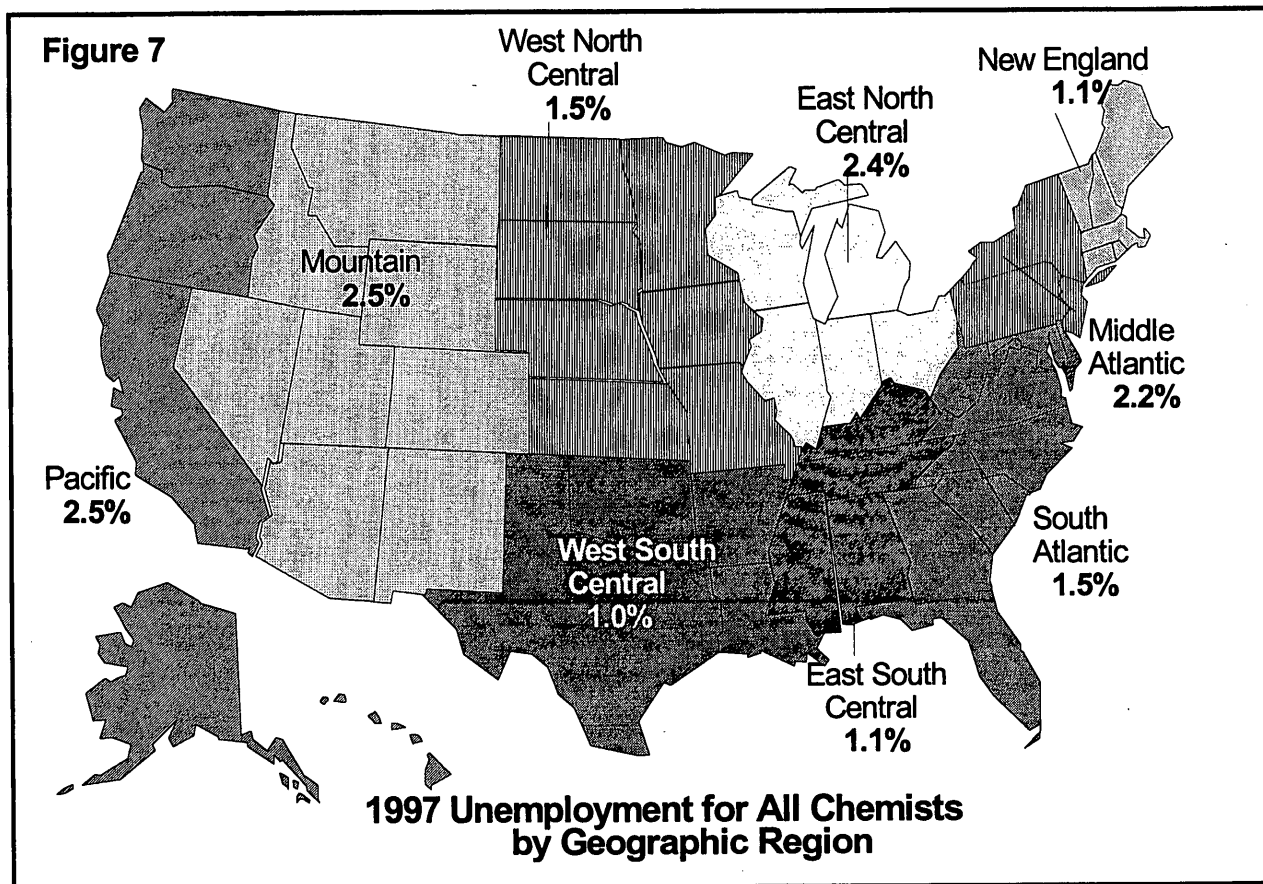
Chemists	1991	1992	1993	1994	1995	1996	1997
Unemployment Rate³	1.6%	1.9%	2.0%	2.1%	2.7%	3.0%	2.0%
Any Unemployment in the Past Year⁴	3.1%	4.3%	4.0%	5.4%	6.8%	7.5%	5.0%

3. 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.

4. 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.

Regional Unemployment for Chemists

Unemployment rates of chemists who identified themselves with industry were lower than in 1994 in all regions of the country. Unemployment in the Pacific states continued to be the highest in the nation at 3.8 percent, but was a marked improvement over 1994's 4.2 percent. The lowest unemployment rates were found in the East North Central and East South Central states, dropping below the South Atlantic states which had the lowest unemployment in 1994. The regional picture is shown in Figure 6.



TECHNICAL NOTES

The Sample

Traditionally, the target population of the ACS Comprehensive Salary and Employment Status Survey is those ACS members under the age of 70 who had mailing addresses in the U.S. and had neither student, retired, nor emeritus membership status. This year, a general sample was drawn from a database consisting of all members meeting the above criteria. The survey questionnaires were mailed to 20,100 members by first-class mail on February 21, 1997. The second mailing consisted of a reminder postcard mailed about a week after the first mailing. A follow-up third mailing consisting of the survey questionnaire was sent to nonrespondents on March 21. By the May 9th cut-off date, over 10,700 usable questionnaires (53 percent of the original mailing) had been returned.

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 of chemical engineering (category 1 of Part 1, Question 3 of the questionnaire).

Nonchemist: A respondent whose work specialty category is other than chemistry or chemical engineering.

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, 1997. The respondents place of employment (current or most recent) determines geographic region. The assignment of states to geographic regions follows this section and are pictured on page 9.

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 records showed no bias in terms of age, sex, employer, or geographic region. In addition, a telephone follow-up of 388 nonrespondents to the 1991 survey showed the nonrespondents' salaries were virtually the same as the responders. The mean salary for the responders was \$57,007; for nonrespondents 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^5 was only 0.57 between the two groups. The percent in both groups that were unemployed was also the same -- 1.6%.

⁵ Student's t , or the distribution of t is a test statistic that evaluates the randomness of a given distribution. In this case, the sample of the nonrespondents vs. responders of the 1991 Comprehensive Survey was tested with the Student's t of .057 showing very closely aligned groups.

GEOGRAPHIC REGIONS***Pacific***

Alaska
California
Hawaii
Oregon
Washington

Mountain

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

West North Central

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

West South Central

Arkansas
Louisiana
Oklahoma
Texas

East North Central

Illinois
Indiana
Michigan
Ohio
Wisconsin

East South Central

Alabama
Kentucky
Mississippi
Tennessee

Middle Atlantic

New Jersey
New York
Pennsylvania

South Atlantic

Delaware
District of Columbia
Florida
Georgia
Maryland
North Carolina
South Carolina
Virginia
West Virginia

New England

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

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Table 1.1.1

SALARIES of BS CHEMISTS employed FULL-TIME
by EMPLOYER TYPE and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Industry						
Total	1588	55,042	31,240	39,500	50,000	63,500
2-4	206	35,151	8,288	29,500	35,000	39,790
5-9	327	42,058	10,860	35,000	41,000	47,500
10-14	246	52,408	28,444	41,081	49,738	58,000
15-19	230	57,004	15,636	47,500	54,953	65,000
20-24	196	63,854	39,415	47,600	61,016	72,400
25-29	149	67,032	21,141	53,000	63,000	75,500
30-34	107	76,632	66,290	54,500	65,000	82,992
35-39	75	79,647	29,247	56,500	72,000	97,500
40 or more	42	80,302	31,478	60,600	75,375	98,500
Government						
Total	157	48,958	14,895	37,926	47,800	56,928
5-9	20	39,285	9,928	31,500	36,404	48,000
10-14	16	43,185	8,454	35,260	42,500	49,700
15-19	26	49,005	12,818	41,500	47,862	55,000
20-24	26	50,202	14,087	42,036	47,456	56,928
25-29	25	55,690	11,462	48,500	52,200	62,000
Other Nonacademic						
Total	88	60,167	61,429	32,250	46,500	65,350
10-14	15	42,214	11,614	35,000	38,400	48,000
High School						
Total	17	34,248	10,579	28,000	30,707	39,322
College or University						
Total	65	40,593	15,259	30,000	37,800	50,000

Note: Categories with fewer than 15 cases have been suppressed

Table 1.1.2

SALARIES of MS CHEMISTS employed FULL-TIME
by EMPLOYER TYPE and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Industry						
Total	1034	63,045	22,772	49,000	60,000	72,720
2-4	16	38,554	6,097	35,500	41,210	42,000
5-9	124	44,834	8,081	40,396	44,700	48,900
10-14	174	53,141	13,503	46,000	52,000	59,184
15-19	181	60,248	13,340	52,000	59,000	67,000
20-24	175	65,424	16,213	54,396	64,000	73,000
25-29	144	73,470	26,238	57,825	69,035	83,800
30-34	122	77,816	31,365	62,700	73,414	85,000
35-39	64	77,878	30,306	65,000	73,220	83,600
40 or more	34	69,251	21,018	59,085	67,500	80,000
Government						
Total	106	57,105	16,807	45,939	54,523	65,000
15-19	19	49,480	15,657	38,137	49,580	60,583
25-29	30	57,417	13,809	48,560	54,858	64,400
35-39	15	71,849	19,541	53,946	67,149	88,740
Other Nonacademic						
Total	75	70,397	56,678	41,583	54,000	79,900
High School						
Total	84	46,127	14,587	35,750	45,000	56,000
25-29	23	50,242	12,683	42,798	48,000	58,500
30-34	20	45,980	15,424	35,019	42,675	58,550
College or University						
Total	142	44,149	16,587	33,000	42,000	53,310
5-9	20	36,379	13,754	26,425	33,776	40,550
10-14	21	37,261	12,216	30,300	33,000	46,900
15-19	16	49,610	29,485	34,851	40,666	51,250
20-24	16	50,387	14,041	40,344	53,500	57,800
25-29	17	39,824	9,563	34,000	40,000	45,932
30-34	29	47,021	15,358	38,484	45,000	54,000
35-39	15	53,271	9,167	45,000	53,310	58,000

Note: Categories with fewer than 15 cases have been suppressed

Table 1.1.3

SALARIES of PhD CHEMISTS employed FULL-TIME
by EMPLOYER TYPE and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Industry						
Total	2660	84,910	35,453	66,000	78,115	94,954
5-9	117	64,796	55,926	53,000	60,000	65,200
10-14	461	66,767	25,675	60,000	65,760	71,700
15-19	520	75,656	30,892	63,842	72,000	83,000
20-24	461	85,079	27,650	71,280	81,475	93,800
25-29	403	95,474	30,562	77,000	89,700	106,000
30-34	392	102,509	36,559	80,000	94,516	115,000
35-39	218	101,936	42,760	77,040	92,110	119,000
40 or more	87	91,836	25,619	78,500	93,000	110,000
Government						
Total	315	74,873	38,594	61,000	72,000	84,000
10-14	33	74,685	107,551	47,449	56,688	65,000
15-19	46	64,187	14,869	53,000	63,330	74,360
20-24	41	67,277	13,202	61,913	66,504	73,100
25-29	47	79,068	16,438	68,724	80,014	88,100
30-34	75	79,338	14,489	69,800	78,546	92,227
35-39	36	80,524	18,032	70,877	82,560	95,970
40 or more	34	79,865	28,208	53,946	83,461	98,714
Other Nonacademic						
Total	182	87,062	49,594	57,289	75,650	99,400
10-14	19	83,737	78,673	50,000	65,000	75,000
15-19	21	64,487	27,349	49,000	57,289	75,000
20-24	26	86,766	53,473	51,800	76,840	94,209
25-29	30	87,550	44,585	61,200	80,100	94,000
30-34	39	94,255	45,907	65,000	85,000	125,013
35-39	23	98,249	52,533	62,000	81,400	110,000
40 or more	17	96,156	36,464	75,000	80,000	103,881
High School						
Total	18	49,458	12,463	42,000	45,679	60,000
College or University						
Total	1728	62,709	30,231	43,615	57,079	74,500
5-9	67	37,550	7,921	33,000	37,000	43,000
10-14	209	41,887	11,799	35,000	40,000	46,000
15-19	219	51,835	44,285	38,500	45,792	56,700
20-24	192	55,656	20,018	41,268	52,000	65,000
25-29	213	65,893	26,635	47,500	60,600	76,000
30-34	317	72,448	30,952	53,550	63,500	85,000
35-39	312	72,162	24,316	55,063	68,000	83,746
40 or more	199	78,082	25,483	60,000	75,000	91,066

Note: Categories with fewer than 15 cases have been suppressed

Table 2.1.1

SALARIES of INDUSTRIAL CHEMISTS employed FULL-TIME
by DEGREE and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
BS						
Total	1588	55,042	31,240	39,500	50,000	63,500
2-4	206	35,151	8,288	29,500	35,000	39,790
5-9	327	42,058	10,860	35,000	41,000	47,500
10-14	246	52,408	28,444	41,081	49,738	58,000
15-19	230	57,004	15,636	47,500	54,953	65,000
20-24	196	63,854	39,415	47,600	61,016	72,400
25-29	149	67,032	21,141	53,000	63,000	75,500
30-34	107	76,632	66,290	54,500	65,000	82,992
35-39	75	79,647	29,247	56,500	72,000	97,500
40 or more	42	80,302	31,478	60,600	75,375	98,500
MS						
Total	1034	63,045	22,772	49,000	60,000	72,720
2-4	16	38,554	6,097	35,500	41,210	42,000
5-9	124	44,834	8,081	40,396	44,700	48,900
10-14	174	53,141	13,503	46,000	52,000	59,184
15-19	181	60,248	13,340	52,000	59,000	67,000
20-24	175	65,424	16,213	54,396	64,000	73,000
25-29	144	73,470	26,238	57,825	69,035	83,800
30-34	122	77,816	31,365	62,700	73,414	85,000
35-39	64	77,878	30,306	65,000	73,220	83,600
40 or more	34	69,251	21,018	59,085	67,500	80,000
PhD						
Total	2660	84,910	35,453	66,000	78,115	94,954
5-9	117	64,796	55,926	53,000	60,000	65,200
10-14	461	66,767	25,675	60,000	65,760	71,700
15-19	520	75,656	30,892	63,842	72,000	83,000
20-24	461	85,079	27,650	71,280	81,475	93,800
25-29	403	95,474	30,562	77,000	89,700	106,000
30-34	392	102,509	36,559	80,000	94,516	115,000
35-39	218	101,936	42,760	77,040	92,110	119,000
40 or more	87	91,836	25,619	78,500	93,000	110,000

Note: Categories with fewer than 15 cases have been suppressed

Table 2.1.2

SALARIES of MEN CHEMISTS employed FULL-TIME in INDUSTRY
by DEGREE and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
BS						
Total	1081	58,991	35,678	41,500	53,750	68,000
2-4	126	35,508	8,708	28,800	35,000	40,000
5-9	179	44,183	12,297	36,100	42,500	50,000
10-14	158	54,658	34,098	42,000	51,830	59,616
15-19	165	58,376	16,276	48,000	56,292	66,400
20-24	135	67,269	46,294	50,500	63,406	74,100
25-29	123	69,382	21,492	55,100	65,400	77,000
30-34	89	80,914	71,700	55,920	69,450	85,000
35-39	63	80,237	27,445	60,000	72,000	97,500
40 or more	37	83,069	32,098	60,600	77,400	99,600
MS						
Total	759	65,373	23,807	51,000	61,900	75,000
5-9	83	45,788	8,670	41,290	45,000	50,000
10-14	109	54,856	15,208	47,500	53,000	60,108
15-19	127	60,988	13,017	53,000	59,000	66,500
20-24	141	66,144	16,633	55,016	65,000	74,453
25-29	116	75,002	26,409	58,820	70,450	84,100
30-34	101	78,976	31,593	64,000	75,000	86,230
35-39	52	81,565	31,688	67,500	76,100	92,250
40 or more	22	69,068	24,475	55,000	66,102	80,000
PhD						
Total	2304	86,286	35,415	67,203	80,000	96,000
5-9	88	66,565	64,230	53,028	60,000	65,650
10-14	354	66,321	11,156	60,000	66,000	72,000
15-19	435	75,973	32,819	64,000	72,350	83,000
20-24	406	85,496	28,779	71,625	81,000	93,800
25-29	366	96,221	31,071	78,000	90,000	106,500
30-34	368	103,040	36,228	80,820	95,000	115,138
35-39	208	102,290	42,998	79,632	92,594	119,450
40 or more	78	92,707	24,916	80,000	93,000	110,200

Note: Categories with fewer than 15 cases have been suppressed

Table 2.1.3

SALARIES of WOMEN CHEMISTS employed FULL-TIME in INDUSTRY
by DEGREE and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
BS						
Total	493	46,178	15,188	36,000	43,600	54,236
2-4	80	34,588	7,599	30,120	35,000	38,000
5-9	145	39,239	7,945	33,500	38,900	45,000
10-14	85	48,524	12,547	40,100	48,249	55,600
15-19	65	53,524	13,372	45,100	52,250	61,000
20-24	59	56,215	13,542	46,000	55,000	65,000
25-29	25	54,672	14,285	44,000	51,104	64,384
30-34	17	55,195	15,172	51,000	56,000	59,484
MS						
Total	268	56,670	18,230	44,000	52,776	67,000
5-9	40	42,850	6,474	40,000	43,250	48,280
10-14	64	50,420	9,433	43,654	49,775	56,000
15-19	52	58,152	14,182	47,750	57,300	67,772
20-24	34	62,439	14,171	53,000	61,000	70,000
25-29	27	68,188	24,797	52,000	67,000	78,600
30-34	20	71,750	31,064	53,100	69,978	76,000
PhD						
Total	337	74,994	33,872	62,000	69,216	82,000
5-9	29	59,430	9,987	52,000	60,000	64,500
10-14	104	68,416	50,090	58,955	64,500	69,097
15-19	84	74,321	18,031	63,663	70,750	85,250
20-24	53	81,934	17,336	70,000	81,500	95,000
25-29	34	84,014	17,929	74,160	81,800	94,000
30-34	22	94,813	42,553	67,200	76,650	108,000

Note: Categories with fewer than 15 cases have been suppressed

Table 2.2.1

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK SPECIALTY						
Biochemistry						
Total	18	56,187	23,775	41,938	51,890	65,000
Biotechnology						
Total	28	72,253	80,407	41,407	49,663	73,600
General chemistry						
Total	84	53,306	19,985	39,609	49,750	64,912
5-9	20	41,577	8,813	39,000	41,887	45,844
Agricultural chemistry						
Total	55	53,377	21,097	38,400	49,350	68,000
Analytical chemistry						
Total	506	49,198	17,439	37,000	46,000	57,200
2-4	64	34,098	7,674	28,250	34,182	38,750
5-9	128	41,143	9,937	34,761	39,575	46,632
10-14	87	50,393	13,210	40,900	50,033	57,138
15-19	72	50,641	13,502	42,100	49,116	57,480
20-24	58	55,560	16,360	43,000	54,000	65,008
25-29	39	61,019	15,426	51,185	60,000	73,260
30-34	32	64,508	20,896	51,000	57,350	75,711
Environmental chemistry						
Total	133	49,626	22,312	35,000	43,000	60,000
2-4	20	31,796	8,091	27,020	31,325	37,470
5-9	31	37,458	8,661	32,000	36,050	41,000
10-14	22	47,640	16,354	36,500	44,000	51,660
15-19	24	58,168	18,991	44,693	54,938	70,500
20-24	17	62,058	15,148	55,000	61,000	69,492
Inorganic chemistry						
Total	22	48,593	13,991	39,790	50,175	56,000
Materials science						
Total	57	55,502	16,290	44,000	53,000	64,506
Medicinal-Pharmaceutical						
Total	84	52,417	16,543	39,875	51,000	61,062
5-9	19	42,374	7,822	38,293	42,000	45,000
10-14	15	50,137	11,119	41,000	49,600	56,300
Organic chemistry						
Total	156	62,112	67,600	40,750	50,063	62,080
2-4	26	37,984	5,817	35,000	37,470	40,500
5-9	35	43,665	8,263	38,000	44,408	50,000
10-14	21	55,158	12,002	47,700	52,500	60,600
15-19	21	54,981	9,767	50,000	53,500	62,000
20-24	16	93,283	124,438	50,198	62,220	75,688
25-29	15	71,534	28,165	56,400	63,000	75,000

(continued)

Note: Categories with fewer than 15 cases have been suppressed

Table 2.2.1 (Continued)

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK SPECIALTY						
Physical chemistry						
Total	18	55,641	18,238	43,350	55,350	65,000
Polymer chemistry						
Total	174	61,783	27,276	43,065	57,875	71,900
2-4	15	37,620	12,564	29,960	35,000	40,400
5-9	34	44,043	9,978	36,400	43,355	53,500
10-14	26	52,919	12,649	41,500	51,175	61,000
15-19	20	66,204	18,529	53,325	61,570	73,090
20-24	28	67,637	17,294	53,576	67,740	81,008
25-29	19	77,233	19,613	64,384	73,800	85,560
Other chemical science						
Total	30	51,002	17,829	37,500	48,952	62,000
Business Administration						
Total	28	80,069	33,654	53,910	73,041	105,000
Computer science						
Total	15	60,490	23,804	46,000	56,292	73,500
Other nonchemistry						
Total	63	64,431	22,364	46,500	61,440	80,000
15-19	15	65,787	18,873	56,000	61,440	73,000

Note: Categories with fewer than 15 cases have been suppressed

Table 2.2.2

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK FUNCTION						
R&D Mgt						
Total	98	72,436	25,887	55,000	68,477	86,832
10-14	15	59,064	18,520	49,035	62,000	70,000
20-24	15	74,806	16,485	63,500	71,375	93,000
25-29	16	86,207	23,258	71,100	80,244	103,850
Basic research						
Total	95	45,183	11,987	35,600	43,000	54,000
2-4	30	35,840	5,395	31,500	35,125	39,960
5-9	28	42,602	8,968	36,950	41,894	47,800
Applied research						
Total	476	53,852	33,210	40,495	50,000	61,000
2-4	60	36,660	6,882	31,600	36,700	39,967
5-9	109	43,007	8,849	36,967	42,640	48,708
10-14	69	56,152	49,241	41,500	49,656	56,700
15-19	73	58,134	13,910	50,976	55,608	65,000
20-24	65	68,250	63,069	48,000	60,000	68,500
25-29	40	61,995	15,939	50,195	59,200	68,378
30-34	25	64,907	14,231	56,000	62,000	72,815
35-39	22	65,236	17,069	54,036	61,580	79,500
General Mgt						
Total	124	72,162	36,684	50,000	63,050	80,500
10-14	23	55,317	11,921	46,681	53,000	60,000
15-19	19	61,939	15,970	48,404	61,000	71,100
20-24	21	69,839	15,953	60,000	71,000	77,480
25-29	15	70,955	25,278	60,000	65,000	85,200
Marketing						
Total	148	60,063	22,535	43,000	54,675	73,712
5-9	21	42,714	7,817	38,500	40,500	47,536
10-14	25	54,350	10,569	47,500	52,200	58,272
15-19	23	63,423	20,997	45,000	64,400	75,000
20-24	18	72,368	20,180	64,000	73,000	82,500
25-29	19	71,053	24,726	54,320	67,920	82,000
30-34	17	62,885	19,019	53,389	65,000	74,500
Production						
Total	334	49,812	19,471	37,000	46,000	58,000
2-4	54	35,126	8,000	30,240	35,020	38,688
5-9	80	40,942	8,565	34,230	41,055	46,621
10-14	43	47,867	11,503	40,000	47,200	56,071
15-19	50	52,580	14,153	45,000	51,818	59,498
20-24	34	53,234	14,919	41,000	51,968	65,000
25-29	33	66,064	19,866	55,186	62,700	75,000
30-34	21	65,732	21,995	52,000	57,096	85,000
Health & Safety						
Total	66	56,895	18,723	41,340	55,685	67,740
Other lab analysis						
Total	141	42,112	17,080	30,000	37,798	51,000
2-4	29	27,264	6,622	24,000	26,500	30,000
5-9	36	36,594	10,044	30,000	34,924	38,750
10-14	28	43,606	10,720	35,284	43,400	50,517
Other						
Total	57	62,141	82,742	37,627	51,104	62,000

Note: Categories with fewer than 15 cases have been suppressed

Table 2.2.3

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by INDUSTRY and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
NONACADEMIC EMPLOYER						
Analytical serv						
Tab						
Total	152	41,942	16,439	30,000	37,305	50,000
2-4	26	26,991	5,045	24,024	26,750	29,000
5-9	38	35,349	9,634	30,000	34,300	37,500
10-14	29	44,396	11,197	36,500	43,000	50,033
15-19	29	48,925	17,849	36,300	46,000	58,240
Contract res firm						
Total	25	49,023	20,356	35,922	41,500	52,385
Utility						
Total	30	53,954	19,734	41,000	47,371	63,400
Other nonmanuf						
Total	66	55,878	21,862	40,000	55,515	69,532
5-9	15	43,210	18,489	30,000	39,652	44,000
15-19	15	62,322	16,765	53,430	60,000	71,100
Aerospace						
Total	28	59,632	20,051	46,467	55,720	66,600
Basic chemicals						
Total	38	58,327	17,737	46,000	55,660	66,555
Specialty chems						
Total	210	60,406	49,082	41,250	52,615	67,920
2-4	22	36,045	8,713	29,500	35,432	39,900
5-9	44	41,716	9,516	35,400	41,080	45,890
10-14	30	53,059	12,302	46,000	49,450	60,000
15-19	32	59,053	14,057	49,680	56,500	69,272
20-24	28	65,758	19,108	52,250	62,850	80,000
25-29	20	69,750	20,723	56,450	66,590	79,600
30-34	17	121,759	148,825	65,000	71,673	100,000
Agricultural chems						
Total	37	56,707	21,207	38,784	53,650	67,080
Coatings						
Total	95	62,445	59,344	40,000	52,250	66,000
2-4	17	34,764	5,947	29,500	35,000	40,000
5-9	20	41,639	8,620	37,000	42,286	48,768
Electronics						
Total	28	59,117	21,647	44,386	53,790	74,542
Food						
Total	55	58,676	25,331	39,900	54,906	71,000
Instruments						
Total	39	59,677	31,056	43,000	50,000	67,000
Medical devices						
Total	51	54,117	18,126	41,054	51,000	67,000
Metals						
Total	40	55,284	21,159	40,734	53,000	60,295
Paper						
Total	16	53,122	16,675	37,649	53,330	65,500

(continued)

Note: Categories with fewer than 15 cases have been suppressed

Table 2.2.3 (Continued)

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by INDUSTRY and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Personal Care						
Total	21	45,657	14,802	33,000	42,289	54,500
Petroleum						
Total	49	59,797	16,266	47,550	60,000	70,000
Pharmaceuticals						
Total	322	54,108	29,719	39,000	49,134	60,600
2-4	55	37,406	6,332	34,000	37,000	40,000
5-9	85	44,446	11,263	38,000	44,000	49,000
10-14	54	61,294	55,308	45,000	54,180	60,000
15-19	42	56,013	11,348	49,233	54,844	63,000
20-24	29	56,674	17,760	48,000	57,000	65,000
25-29	22	75,903	27,909	60,996	68,425	91,150
30-34	15	64,161	16,210	54,500	62,000	73,950
35-39	16	85,216	34,076	58,250	80,000	99,656
Plastics						
Total	66	58,065	18,735	45,000	56,261	65,400
Rubber						
Total	38	60,146	20,818	42,000	58,000	70,000
Soaps						
Total	24	52,016	15,161	39,750	48,825	63,750
Other manufactures						
Total	145	52,532	21,091	39,000	45,744	61,000
2-4	19	35,331	7,191	29,000	36,000	39,372
5-9	24	39,673	8,513	32,441	39,750	42,900
10-14	19	50,537	16,529	40,000	45,000	60,000
15-19	20	56,436	16,899	46,702	51,000	60,800
20-24	19	56,770	18,323	44,400	47,905	69,900
25-29	20	60,280	19,179	45,014	56,500	69,650

Note: Categories with fewer than 15 cases have been suppressed

Table 2.2.4

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by GEOGRAPHIC REGION and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
GEOGRAPHIC REGION						
Pacific						
Total	152	58,399	40,122	39,825	52,877	66,500
2-4	19	32,696	8,654	28,200	33,500	37,100
5-9	38	43,537	10,357	38,000	42,882	52,300
10-14	26	68,829	78,496	45,000	52,877	60,000
15-19	22	56,890	16,106	42,000	56,668	67,000
20-24	16	67,610	19,277	54,450	65,104	78,500
Mountain						
Total	73	53,497	19,760	39,652	49,035	61,000
10-14	15	51,594	8,934	43,127	49,300	60,000
West North Central						
Total	106	49,440	15,012	39,594	48,508	58,400
2-4	15	34,868	9,806	24,960	37,500	41,500
5-9	24	41,572	12,412	34,000	37,650	50,670
10-14	17	46,398	9,414	41,000	43,000	50,150
15-19	19	55,662	10,731	48,612	56,340	61,440
West South Central						
Total	105	59,861	62,024	41,000	51,636	64,824
5-9	18	40,873	7,515	35,800	41,330	44,220
15-19	17	54,457	14,725	43,000	54,000	64,400
20-24	15	58,920	7,945	51,000	61,032	64,920
East North Central						
Total	383	52,380	22,141	38,000	48,500	62,000
2-4	55	34,135	6,321	29,500	33,560	38,500
5-9	82	41,660	11,367	34,800	40,000	46,711
10-14	56	48,307	13,375	40,000	47,600	54,180
15-19	59	57,270	17,272	46,000	54,660	63,375
20-24	53	60,428	16,912	47,326	62,000	73,000
25-29	25	72,536	25,944	60,190	65,000	75,000
30-34	28	72,968	38,928	54,805	67,935	79,800
East South Central						
Total	63	52,409	16,055	41,500	48,422	65,400
Middle Atlantic						
Total	336	56,705	24,196	40,270	52,942	65,230
2-4	50	37,600	8,457	34,000	37,200	40,500
5-9	68	44,345	13,496	36,050	42,549	49,294
10-14	39	52,937	13,504	44,900	53,750	57,000
15-19	44	62,513	14,974	54,046	60,380	68,525
20-24	46	63,554	19,693	47,500	57,435	74,100
25-29	33	65,974	22,810	50,000	65,000	72,200
30-34	23	76,855	47,911	56,000	65,000	85,000
35-39	19	72,164	22,948	54,036	70,000	98,500

(continued)

Note: Categories with fewer than 15 cases have been suppressed

Table 2.2.4 (Continued)

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by GEOGRAPHIC REGION and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
South Atlantic						
Total	246	56,534	39,440	37,500	51,000	65,000
2-4	29	31,895	6,756	28,000	31,000	35,600
5-9	44	40,778	9,246	34,200	38,892	45,000
10-14	50	50,794	13,464	40,300	49,560	59,900
15-19	32	55,430	16,103	49,555	53,190	63,500
20-24	26	78,729	99,097	44,800	62,700	70,000
25-29	29	73,430	19,121	60,000	75,000	85,560
30-34	18	70,093	25,898	52,385	59,580	82,992
New England						
Total	106	55,254	21,829	40,250	48,400	62,000
2-4	15	38,108	5,885	34,164	37,440	41,000
5-9	21	41,799	7,765	36,800	42,000	46,000
10-14	21	54,252	14,091	45,000	56,000	62,000
25-29	15	64,585	24,483	44,600	58,000	81,000

Note: Categories with fewer than 15 cases have been suppressed

Table 2.2.5

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by TOTAL SUBORDINATES and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
SUBORDINATES						
None						
Total	36	47,557	20,330	35,384	43,223	52,600
1-2						
Total	175	57,181	35,314	42,000	52,900	64,400
2-4	15	35,843	8,433	28,800	34,000	39,900
5-9	29	43,616	12,034	35,500	42,500	50,000
10-14	33	62,930	70,473	40,500	49,150	59,900
15-19	30	58,250	17,050	46,000	56,070	67,543
20-24	24	58,697	17,731	47,250	56,050	71,313
3-9						
Total	1295	53,428	29,505	38,688	49,360	62,000
2-4	181	34,786	7,779	29,500	35,000	39,300
5-9	282	41,944	10,576	35,500	40,822	47,000
10-14	197	50,329	12,256	41,250	49,656	57,111
15-19	187	55,388	14,300	46,000	54,660	62,000
20-24	149	64,010	43,950	47,424	61,000	70,000
25-29	113	67,024	17,594	55,100	65,400	75,500
30-34	87	74,146	67,142	54,310	65,000	82,992
35-39	61	77,796	29,281	56,000	70,096	95,800
40 or more	29	74,720	30,082	56,000	67,740	87,600
10-14						
Total	69	69,692	26,267	52,500	65,300	83,000
20-24	18	72,361	18,167	54,000	73,450	78,410

Note: Categories with fewer than 15 cases have been suppressed

Table 2.2.6

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by EMPLOYER SIZE and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
EMPLOYER SIZE						
Less than 500						
Total	481	51,481	29,444	35,339	45,000	60,000
2-4	57	31,459	6,969	27,000	30,240	36,000
5-9	118	39,196	11,314	31,500	36,251	44,464
10-14	77	54,514	47,407	40,000	48,249	57,000
15-19	68	55,201	19,403	43,175	51,550	63,270
20-24	52	53,265	16,776	40,000	51,000	65,450
25-29	45	62,588	21,083	50,000	60,000	70,000
30-34	29	57,526	19,458	47,562	59,000	65,200
35-39	17	95,221	40,343	63,000	80,000	120,000
40 or more	16	92,086	38,487	62,778	80,000	120,000
500 to 2,499						
Total	354	52,130	20,861	39,400	48,432	60,000
2-4	52	35,677	9,333	29,500	35,520	39,581
5-9	70	43,469	12,812	36,800	41,000	47,700
10-14	54	48,383	11,851	40,500	48,050	56,000
15-19	55	53,782	13,090	44,280	52,250	61,000
20-24	45	64,728	19,554	50,700	63,400	76,000
25-29	32	63,070	20,228	49,221	60,250	70,866
30-34	18	71,314	44,408	50,000	58,392	72,815
35-39	20	69,406	25,832	48,150	60,500	81,500
2,500 to 9,999						
Total	304	58,338	34,993	41,956	54,031	66,750
2-4	39	34,790	6,842	29,500	35,000	39,000
5-9	58	43,834	9,108	38,100	43,559	49,300
10-14	48	54,173	13,278	42,650	54,692	59,148
15-19	47	60,058	12,513	52,700	58,600	66,500
20-24	45	72,835	75,232	50,000	61,740	69,900
25-29	23	73,960	19,713	61,260	70,000	84,245
30-34	23	77,496	22,103	59,160	79,600	88,000
10,000 to 24,999						
Total	153	61,629	52,674	42,200	54,250	67,000
2-4	20	39,095	7,773	35,300	37,642	41,417
5-9	19	43,085	8,655	37,500	41,660	49,200
10-14	19	49,753	9,647	41,081	48,973	54,888
15-19	26	60,953	13,792	50,000	59,265	74,279
20-24	22	61,454	15,542	47,326	61,500	68,500
25-29	16	67,797	14,731	57,800	63,700	76,500
35-39	15	77,649	25,188	56,500	72,000	86,500
25,000 or more						
Total	280	58,150	23,921	42,670	54,834	68,503
2-4	34	38,422	8,678	32,448	37,750	42,000
5-9	59	44,116	8,510	38,000	43,645	49,300
10-14	47	53,162	13,413	43,940	53,750	61,250
15-19	32	59,985	14,033	52,330	56,820	65,800
20-24	29	70,057	15,054	60,100	69,336	74,100
25-29	33	71,734	24,281	55,600	64,384	84,200
30-34	25	78,578	45,635	56,000	71,673	75,000

Note: Categories with fewer than 15 cases have been suppressed

Table 2.3.1

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK SPECIALTY						
Biochemistry						
Total	51	60,473	21,356	44,940	56,100	67,000
General chemistry						
Total	25	58,961	20,570	46,392	65,000	70,900
Agricultural chemistry						
Total	26	58,734	21,568	43,807	60,500	69,500
Analytical chemistry						
Total	256	57,643	15,202	47,500	56,000	66,750
5-9	32	43,745	6,109	40,025	44,150	47,458
10-14	43	49,153	10,778	40,000	50,000	56,000
15-19	46	58,292	11,539	51,655	60,000	64,370
20-24	54	61,531	13,347	53,000	61,810	70,000
25-29	30	62,440	11,509	54,619	61,024	69,000
30-34	25	64,895	16,576	50,000	66,500	79,200
Environmental chemistry						
Total	101	60,565	19,440	46,000	56,800	72,480
10-14	25	52,573	14,653	41,500	52,000	62,046
15-19	19	57,871	13,101	49,500	55,000	66,000
20-24	15	69,878	16,417	56,160	68,000	87,000
25-29	17	66,291	20,232	51,000	56,800	90,000
Inorganic chemistry						
Total	21	71,584	43,691	59,000	65,500	75,000
Materials science						
Total	38	72,068	21,277	57,000	69,255	81,300
Medicinal-Pharmaceutical						
Total	115	60,459	18,675	46,380	56,550	70,900
5-9	23	47,060	4,713	43,600	46,968	50,000
10-14	21	55,291	13,717	47,200	52,800	57,000
15-19	25	58,817	10,006	51,000	58,026	65,000
30-34	18	72,558	14,958	66,555	72,750	80,600
Organic chemistry						
Total	130	63,441	17,385	50,000	60,430	75,000
5-9	19	45,399	5,508	42,000	44,800	49,000
10-14	22	51,867	4,791	49,000	50,900	55,200
15-19	25	60,853	13,861	53,000	56,000	70,440
20-24	15	65,481	8,706	62,600	64,000	74,453
25-29	23	75,708	17,900	63,720	66,800	90,000
Physical chemistry						
Total	20	79,309	54,101	56,210	68,750	79,715

(continued)

Note: Categories with fewer than 15 cases have been suppressed

Table 2.3.1 (Continued)

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Polymer chemistry						
Total	122	67,093	23,218	50,114	65,182	77,770
10-14	17	49,185	8,960	42,225	49,300	53,000
15-19	18	66,980	16,073	60,000	67,500	78,000
20-24	22	70,901	17,579	57,000	67,500	85,484
25-29	18	74,141	27,410	58,000	72,970	83,600
30-34	20	84,628	32,085	61,803	76,400	92,741
Other chemical science						
Total	31	65,516	19,930	56,300	65,297	77,000
Business Administration						
Total	17	95,334	40,621	72,000	80,000	120,000
Other nonchemistry Total	42	66,567	16,595	52,621	62,446	78,750

Note: Categories with fewer than 15 cases have been suppressed

Table 2.3.2

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
R&D Mgt						
Total	100	80,353	31,162	65,940	74,750	85,000
15-19	16	75,277	15,576	66,750	75,000	85,269
20-24	27	76,422	15,961	65,000	73,100	86,000
30-34	17	94,934	56,826	69,840	76,600	85,000
Basic research						
Total	83	56,211	12,055	48,000	54,000	60,760
10-14	24	51,686	6,807	47,225	51,250	56,475
15-19	24	59,065	9,303	51,000	59,013	62,750
Applied research						
Total	360	58,338	15,405	46,000	56,140	69,000
5-9	63	43,254	5,887	40,050	43,900	47,300
10-14	59	49,056	8,265	43,000	49,751	55,000
15-19	60	57,813	10,523	51,828	58,000	63,185
20-24	59	63,486	10,923	57,000	62,600	69,600
25-29	47	70,761	16,813	65,000	69,300	78,000
30-34	31	74,346	15,286	65,365	73,100	81,300
35-39	19	69,320	11,371	60,000	72,946	77,000
General Mgt						
Total	69	75,030	30,694	55,220	67,000	90,000
15-19	15	62,430	6,355	59,000	62,300	66,000
20-24	15	74,008	21,111	61,620	70,000	98,000
Marketing						
Total	75	70,626	26,542	57,000	66,000	80,900
25-29	17	85,037	44,405	66,000	82,500	86,800
Production						
Total	135	59,802	26,572	45,300	54,000	68,000
5-9	17	45,150	7,575	40,392	46,000	49,000
10-14	21	56,180	21,428	50,000	52,000	60,108
15-19	25	53,720	13,553	47,100	52,000	57,000
20-24	20	53,390	14,868	41,737	52,500	61,977
30-34	20	70,078	24,871	51,981	71,050	84,115
Health & Safety						
Total	60	64,929	15,788	54,809	62,300	77,400
10-14	12	56,833	14,558	44,600	55,500	71,418
20-24	15	64,827	15,420	55,000	64,600	77,700
Other lab analysis						
Total	57	51,481	18,538	38,500	47,700	67,500
10-14	15	43,922	13,970	35,000	40,000	54,400
Consulting						
Total	29	60,336	15,358	50,000	56,400	72,000
Other						
Total	62	66,070	19,729	51,500	62,610	77,040

Note: Categories with fewer than 15 cases have been suppressed

Table 2.3.3

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by INDUSTRY and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
NONACADEMIC EMPLOYER						
Analytical serv lab						
Total	46	49,367	21,639	36,000	42,000	59,000
Contract res firm						
Total	35	54,097	16,190	42,000	54,010	68,510
Other nonmanuf						
Total	68	66,942	22,291	52,250	66,100	76,168
Aerospace						
Total	21	62,222	12,561	55,673	63,200	71,500
Basic chemicals						
Total	29	66,320	16,070	53,433	65,880	70,900
Specialty chems						
Total	130	65,624	18,911	51,240	65,000	75,900
15-19	30	59,556	13,985	51,240	57,820	70,000
20-24	29	67,399	17,198	54,000	65,000	74,453
25-29	19	77,084	16,982	64,000	72,000	90,000
Agricultural chems						
Total	22	64,701	17,364	54,000	60,550	72,540
Biochemical prods						
Total	15	63,073	16,506	44,940	60,108	78,000
Coatings						
Total	44	61,880	16,839	48,350	60,000	73,220
Electronics						
Total	24	76,753	52,718	52,160	65,500	82,817
Food						
Total	37	60,170	19,794	47,500	58,000	66,100
Instruments						
Total	20	59,478	20,664	42,812	58,330	71,500
Medical devices						
Total	32	63,253	18,944	51,000	62,053	72,240
Metals						
Total	21	68,898	45,035	51,150	55,000	67,156
Petroleum						
Total	26	63,707	20,256	48,000	59,000	77,000
Pharmaceuticals						
Total	282	59,578	17,702	48,000	55,575	67,000
5-9	54	46,361	5,734	42,770	46,440	49,200
10-14	64	53,723	14,490	47,510	51,750	56,775
15-19	58	60,864	11,142	53,340	59,300	67,489
20-24	37	62,699	14,950	57,000	60,900	68,160
25-29	22	76,924	27,025	59,000	67,700	81,000
30-34	30	69,178	16,195	55,200	68,605	80,000
Plastics						
Total	40	65,584	16,903	52,100	64,045	78,715
Soaps						
Total	45	65,372	25,748	50,200	60,000	75,000
Other manufactures						
Total	88	71,975	31,032	54,060	69,365	79,600
20-24	20	69,857	14,945	57,000	66,250	78,350
25-29	18	74,841	23,746	58,000	72,431	80,000
30-34	16	91,524	30,472	74,575	84,250	97,355

Note: Categories with fewer than 15 cases have been suppressed

Table 2.3.4

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by GEOGRAPHIC REGION and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
GEOGRAPHIC REGION						
Pacific						
Total	125	64,205	26,225	49,500	60,000	73,208
10-14	22	50,612	15,748	38,000	48,875	65,000
15-19	23	62,355	14,255	51,655	59,000	70,900
20-24	31	66,688	19,383	51,000	62,400	79,430
25-29	18	78,826	48,931	52,000	69,400	90,000
Mountain						
Total	30	56,080	20,363	41,000	54,000	63,720
West North Central						
Total	66	58,091	14,175	48,480	58,950	68,300
20-24	17	63,019	9,309	55,000	65,224	69,500
West South Central						
Total	61	63,537	25,354	44,940	59,085	73,100
East North Central						
Total	216	63,251	20,132	50,000	60,000	73,125
5-9	25	43,563	6,983	37,000	45,000	47,000
10-14	34	55,322	9,827	49,000	54,800	60,000
15-19	39	61,754	13,914	53,759	60,480	72,600
20-24	38	66,879	19,013	54,396	63,200	75,000
25-29	26	70,905	18,377	55,000	67,100	85,000
30-34	29	74,479	28,638	65,780	72,500	77,000
35-39	17	75,019	22,647	68,000	72,946	77,000
East South Central						
Total	31	69,530	25,084	49,800	68,000	84,355
Middle Atlantic						
Total	262	64,011	22,443	50,000	60,000	74,500
5-9	26	45,231	7,392	42,500	44,700	48,400
10-14	46	53,138	10,977	48,000	52,776	56,180
15-19	55	59,656	12,602	50,000	57,332	67,000
20-24	35	64,558	15,499	53,000	64,000	72,000
25-29	36	82,588	22,204	68,300	80,000	90,100
30-34	32	69,760	13,287	62,298	69,400	77,600
35-39	15	85,495	51,022	60,000	79,500	89,500
40 or more	15	68,904	28,717	53,200	65,000	80,000
South Atlantic						
Total	152	60,993	18,717	47,258	60,000	71,720
5-9	23	44,044	9,544	40,000	42,000	48,000
10-14	31	51,420	13,873	43,000	49,000	58,000
15-19	15	62,458	12,400	53,000	60,000	71,000
20-24	28	67,312	12,106	59,934	65,000	74,566
25-29	20	67,969	18,193	61,000	67,000	73,150
30-34	18	79,873	20,201	67,156	79,447	89,300
New England						
Total	76	65,228	32,772	50,250	59,750	70,000

Note: Categories with fewer than 15 cases have been suppressed

Table 2.3.5

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by TOTAL SUBORDINATES and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
1-2						
Total	142	62,320	16,140	51,500	60,050	72,480
10-14	19	53,575	10,053	46,000	53,520	60,000
15-19	29	54,437	10,432	50,000	52,000	61,022
20-24	21	73,561	15,852	64,000	70,000	85,000
25-29	20	68,258	15,592	59,850	69,015	77,575
30-34	21	68,210	15,870	55,470	71,000	74,000
35-39	16	73,506	10,438	65,000	75,250	79,750
3-9						
Total	838	61,562	19,791	48,100	58,926	71,862
5-9	107	44,802	7,935	41,290	44,940	49,000
10-14	149	53,134	13,842	46,000	52,000	58,000
15-19	146	61,049	13,130	53,000	60,000	68,000
20-24	149	64,172	16,181	54,000	62,600	72,000
25-29	112	72,640	25,957	57,325	68,500	83,400
30-34	89	74,566	20,574	63,000	73,678	81,100
35-39	42	73,967	23,583	60,000	72,648	86,300
40 or more	30	66,311	17,042	59,085	66,102	76,000
10-14						
Total	34	82,847	37,551	57,000	73,890	110,000

Note: Categories with fewer than 15 cases have been suppressed

Table 2.3.6

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by EMPLOYER SIZE and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
EMPLOYER SIZE						
Less than 500						
Total	264	58,109	22,717	41,800	54,005	68,750
5-9	38	42,831	9,723	36,400	41,800	47,000
10-14	39	51,131	22,713	35,000	46,000	60,000
15-19	43	58,218	16,812	49,500	54,340	66,000
20-24	47	60,984	17,251	50,000	59,000	72,000
25-29	35	67,822	27,207	52,000	64,000	80,150
30-34	28	69,833	30,304	54,055	62,553	78,000
500 to 2,499						
Total	203	63,118	24,366	49,000	59,000	73,000
5-9	25	42,882	9,862	40,000	43,000	46,000
10-14	34	55,152	10,933	47,000	52,500	65,000
15-19	35	59,515	12,375	50,000	56,200	68,055
20-24	25	63,674	13,428	53,410	62,000	71,400
25-29	32	74,924	35,925	58,000	69,220	82,000
30-34	28	79,594	31,185	60,000	74,339	84,250
35-39	16	73,053	23,177	56,361	74,400	79,900
2,500 to 9,999						
Total	194	65,814	23,376	52,000	64,000	75,000
5-9	17	46,019	5,769	42,000	44,000	48,160
10-14	33	53,300	9,360	46,400	53,200	58,300
15-19	34	61,729	9,694	55,000	61,910	66,000
20-24	37	66,125	16,341	55,000	64,000	72,000
25-29	24	71,559	16,077	59,076	72,950	81,800
30-34	30	83,451	42,641	69,600	74,500	81,000
35-39	15	78,305	19,598	72,000	76,000	86,300
10,000 to 24,999						
Total	132	65,456	24,580	50,610	60,554	72,250
10-14	30	52,650	9,376	48,000	52,250	56,180
15-19	27	59,852	13,392	51,000	58,000	72,000
20-24	26	68,372	14,038	58,953	66,100	75,500
25-29	16	70,080	13,935	56,000	69,515	79,826
25,000 or more						
Total	235	64,979	18,958	51,000	60,760	76,000
5-9	37	47,088	5,496	43,900	46,500	49,200
10-14	37	53,865	7,932	49,000	52,752	57,180
15-19	41	62,337	12,834	55,000	60,000	69,200
20-24	40	69,171	17,077	58,500	66,650	76,993
25-29	36	81,351	23,704	65,000	76,260	92,000
30-34	22	75,703	14,024	68,709	76,680	84,300

Note: Categories with fewer than 15 cases have been suppressed

Table 2.4.1

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK SPECIALTY						
Biochemistry						
Total	87	78,161	26,143	60,584	76,287	87,500
10-14	17	63,059	8,866	56,700	62,000	70,000
15-19	21	75,519	15,631	66,000	74,000	87,500
Biotechnology						
Total	123	96,076	48,883	67,704	80,000	103,056
10-14	27	67,958	12,839	61,980	65,800	75,000
15-19	30	77,478	20,869	66,320	74,000	87,500
20-24	21	109,206	72,451	68,600	94,700	103,600
25-29	18	110,644	42,634	79,380	90,500	129,096
30-34	15	128,538	55,203	78,524	115,000	178,000
General chemistry						
Total	38	85,288	37,355	61,200	72,592	102,000
Agricultural chemistry						
Total	91	82,437	22,750	65,281	78,500	92,340
20-24	16	78,756	12,431	69,458	76,520	89,150
25-29	15	94,391	16,073	87,000	90,000	110,000
30-34	22	91,273	27,941	71,700	86,600	105,000
Analytical chemistry						
Total	427	77,673	21,294	64,000	74,000	88,500
5-9	29	56,825	9,534	51,300	55,000	64,500
10-14	84	66,185	12,144	60,152	66,328	72,726
15-19	84	71,752	16,749	62,250	70,350	80,250
20-24	74	79,228	15,294	69,387	77,700	91,000
25-29	72	88,874	22,897	75,000	85,950	103,500
30-34	54	91,552	22,726	75,975	86,500	107,000
35-39	22	93,048	30,365	70,000	99,200	105,000
Clinical chemistry						
Total	28	79,308	20,247	63,500	80,725	90,500
Environmental chemistry						
Total	98	84,364	32,773	62,400	82,020	99,000
25-29	24	88,457	31,030	76,500	84,105	96,000
30-34	21	101,746	41,189	73,000	100,000	110,000
Inorganic chemistry						
Total	83	79,667	17,833	67,000	79,600	92,000
10-14	19	61,943	10,811	55,000	63,265	68,400
15-19	15	78,487	12,406	70,000	77,200	86,200
Materials science						
Total	155	80,359	20,531	66,747	76,000	90,300
10-14	26	66,366	9,322	60,000	66,250	72,000
15-19	34	69,496	13,558	61,650	71,000	75,800
20-24	38	83,606	17,130	73,591	82,841	92,900
25-29	21	95,201	21,341	85,000	93,300	101,688
30-34	17	97,977	23,983	84,000	85,440	111,000

(continued)

Note: Categories with fewer than 15 cases have been suppressed

Table 2.4.1 (Continued)

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK SPECIALTY						
Medicinal-Pharmaceutical						
Total	319	93,727	56,724	68,000	80,000	100,000
5-9	15	66,044	10,241	61,400	64,000	70,150
10-14	74	75,883	58,381	64,000	68,638	75,150
15-19	75	87,804	69,609	69,750	78,000	91,000
20-24	55	90,007	34,990	75,000	86,200	99,600
25-29	40	115,860	47,721	82,050	101,500	146,328
30-34	39	110,030	33,595	90,000	106,700	125,000
35-39	19	138,994	77,816	91,000	116,500	190,000
Organic chemistry						
Total	441	85,273	38,836	66,650	78,000	94,500
5-9	21	91,182	129,536	58,000	64,225	68,004
10-14	63	65,720	8,541	59,600	65,000	70,000
15-19	82	74,694	18,557	62,736	70,000	82,000
20-24	77	85,480	26,036	71,457	80,040	92,400
25-29	63	90,585	25,327	75,000	85,500	104,400
30-34	77	96,115	30,511	79,000	92,000	105,300
35-39	47	101,173	38,507	79,464	91,000	120,400
Physical chemistry						
Total	124	79,632	21,122	65,000	74,845	92,092
10-14	22	63,309	10,478	60,000	63,730	69,000
15-19	21	69,130	8,980	62,400	70,900	73,080
20-24	27	81,227	14,003	71,800	79,000	92,000
25-29	18	87,085	22,009	68,868	85,220	102,000
30-34	19	93,741	23,268	79,000	87,700	108,000
Polymer chemistry						
Total	371	82,277	24,687	66,441	78,000	92,000
5-9	20	58,063	9,354	53,300	59,850	64,750
10-14	68	65,201	10,310	58,517	66,000	71,925
15-19	70	74,148	13,871	65,000	71,605	81,400
20-24	43	83,272	19,783	70,096	80,000	92,000
25-29	57	91,229	25,827	77,000	88,000	101,800
30-34	55	101,016	28,833	85,000	95,000	109,000
35-39	41	94,080	25,621	77,040	85,100	103,000
40 or more	17	90,911	26,699	78,500	85,000	102,000
Other chemical science						
Total	52	77,194	17,626	61,900	75,100	90,000
Business Administration						
Total	58	119,165	53,803	85,000	109,000	150,000
Computer science						
Total	26	81,534	28,149	62,880	77,500	89,000
Law						
Total	17	80,748	28,241	58,700	78,000	96,200
Other nonchemistry						
Total	77	101,425	38,936	75,000	95,000	118,000
20-24	22	96,528	34,150	81,000	91,000	109,000
30-34	17	125,802	43,006	92,000	125,000	143,000

Note: Categories with fewer than 15 cases have been suppressed

Table 2.4.2

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK FUNCTION						
R&D Mgt						
Total	549	103,084	35,826	82,000	96,500	115,000
10-14	40	74,020	12,103	67,100	74,550	82,000
15-19	94	85,259	22,995	71,500	83,000	96,500
20-24	112	98,523	35,574	82,650	93,745	104,750
25-29	122	111,026	30,675	90,000	104,375	125,000
30-34	103	119,940	38,940	92,184	110,000	134,600
35-39	54	119,013	44,907	94,000	103,500	140,000
40 or more	19	101,952	21,067	85,650	99,000	101,895
Basic research						
Total	272	76,985	17,996	65,290	73,350	88,100
5-9	23	60,540	10,745	54,000	60,000	66,000
10-14	66	66,789	9,028	62,000	67,028	72,000
15-19	52	76,586	13,240	67,500	74,000	86,423
20-24	52	80,410	13,469	70,520	79,300	91,260
25-29	31	82,588	18,489	68,868	81,000	91,000
30-34	26	93,030	21,792	75,000	94,250	112,000
35-39	18	89,070	28,069	69,000	90,572	110,000
Applied research						
Total	1258	76,674	32,393	63,440	72,200	85,000
5-9	65	69,440	74,233	54,960	60,528	65,200
10-14	292	66,351	30,898	59,443	65,000	70,000
15-19	283	72,498	37,206	62,700	69,750	76,400
20-24	201	77,125	13,852	68,994	77,148	85,080
25-29	154	85,283	17,902	74,369	83,025	94,600
30-34	156	88,496	20,908	78,000	85,000	99,875
35-39	78	89,309	22,764	73,920	88,000	100,000
40 or more	29	91,143	20,568	74,466	91,600	105,000
General Mgt						
Total	125	117,222	57,319	78,000	98,000	150,000
15-19	16	87,051	29,322	66,924	78,855	101,500
20-24	18	108,932	60,950	81,500	90,500	98,000
25-29	27	127,757	48,605	87,000	113,000	175,000
30-34	30	136,312	67,678	90,000	121,500	170,000
35-39	22	129,628	57,697	81,000	132,260	176,800
Marketing						
Total	95	83,317	27,842	65,500	81,000	91,500
10-14	16	62,919	7,361	59,505	62,200	65,750
15-19	17	75,485	15,853	65,000	74,220	82,000
20-24	17	96,099	43,932	81,000	85,127	90,840
Production						
Total	104	76,935	31,194	62,250	71,000	83,000
15-19	24	73,160	17,278	62,994	73,000	81,850
20-24	19	76,873	20,346	65,000	71,016	79,488
30-34	18	95,469	29,791	74,000	88,500	110,000

(continued)

Note: Categories with fewer than 15 cases have been suppressed

Table 2.4.2 (Continued)

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Health & Safety						
Total	66	100,032	33,182	77,000	94,638	116,000
25-29	20	94,236	29,463	75,750	90,570	104,937
Other lab analysis						
Total	55	69,950	17,829	57,881	70,000	84,900
Patents						
Total	23	89,017	31,389	70,000	79,000	111,600
Consulting						
Total	33	84,344	32,141	62,000	72,176	107,000
Other						
Total	38	78,349	30,114	62,000	78,350	90,000

Note: Categories with fewer than 15 cases have been suppressed

Table 2.4.3

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by INDUSTRY and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
NONACADEMIC EMPLOYER						
Analytical serv						
lab						
Total	42	62,777	20,328	50,000	60,500	80,000
Contract res firm						
Total	119	76,707	29,240	59,000	70,900	89,440
10-14	18	55,593	11,124	49,680	56,000	62,500
15-19	22	66,929	18,420	53,000	63,400	71,800
20-24	27	67,982	13,322	60,000	71,000	78,000
25-29	16	102,494	36,213	86,720	94,000	102,000
Other nonmanuf						
Total	100	87,001	67,341	60,000	72,263	93,636
10-14	15	59,793	9,706	53,131	60,000	66,738
15-19	20	100,110	133,409	60,500	71,000	83,000
30-34	19	98,338	37,262	75,000	92,500	110,000
Aerospace						
Total	25	77,585	25,749	67,000	74,000	83,682
Basic chemicals						
Total	173	85,882	26,904	67,728	79,992	96,000
10-14	29	66,284	6,519	62,500	67,000	71,700
15-19	30	69,325	9,873	62,400	69,500	74,600
20-24	30	84,123	15,666	71,700	80,850	92,500
25-29	32	96,063	20,554	81,500	90,950	110,000
30-34	34	99,444	31,610	83,000	92,920	105,000
Specialty chems						
Total	379	84,587	30,577	68,000	78,000	93,600
10-14	54	64,174	7,361	59,500	65,500	70,000
15-19	75	73,361	16,080	63,630	71,000	76,400
20-24	68	89,216	33,033	71,353	81,250	93,900
25-29	52	88,845	22,680	75,000	85,332	96,628
30-34	61	99,159	46,376	77,561	91,500	105,300
35-39	38	100,097	29,972	80,695	95,450	120,400
40 or more	21	90,343	19,774	84,792	92,000	104,000
Agricultural chems						
Total	105	88,141	61,116	68,000	80,000	91,140
15-19	19	68,005	13,749	65,000	70,000	78,000
20-24	20	79,703	12,466	72,250	81,082	89,350
25-29	18	90,650	14,259	83,400	88,295	92,000
30-34	19	100,108	39,753	78,500	88,200	110,000
Biochemical prods						
Total	50	76,679	33,163	62,000	67,777	82,500
Coatings						
Total	87	79,093	22,983	64,000	77,000	90,000
20-24	17	79,100	11,649	74,000	79,866	84,735
30-34	15	100,339	36,191	80,000	85,000	134,000

(continued)

Note: Categories with fewer than 15 cases have been suppressed

Table 2.4.3 (Continued)

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by INDUSTRY and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
NONACADEMIC EMPLOYER						
Electronics						
Total	57	84,049	22,574	68,400	84,700	93,000
20-24	17	87,628	13,024	78,000	85,127	102,000
Food						
Total	46	81,471	20,240	70,834	79,244	91,200
Instruments						
Total	72	75,859	25,704	60,500	72,429	82,190
10-14	16	63,282	8,644	57,500	65,000	69,200
Medical devices						
Total	131	83,655	27,909	64,000	78,000	93,700
10-14	24	65,076	13,167	56,750	62,250	72,750
15-19	24	71,328	14,660	60,130	68,602	83,750
20-24	19	81,659	22,275	71,016	78,000	93,690
25-29	24	98,012	36,125	77,500	88,250	101,500
30-34	20	100,093	28,859	80,000	99,728	116,500
Metals						
Total	25	80,294	28,689	59,000	75,392	95,000
Paper						
Total	26	75,040	17,051	60,500	72,775	88,000
Personal Care						
Total	34	87,573	40,784	65,000	76,550	100,000
Petroleum						
Total	107	92,524	29,922	69,396	88,000	109,000
10-14	20	67,208	10,241	58,000	66,792	76,555
20-24	22	89,051	22,165	75,000	84,000	99,000
25-29	17	96,432	17,579	88,200	98,600	104,400
30-34	24	116,336	35,941	97,750	110,500	124,500
Pharmaceuticals						
Total	640	90,264	40,319	68,141	80,950	99,050
5-9	30	65,717	9,054	61,500	65,156	70,000
10-14	144	72,433	42,455	63,250	68,324	75,000
15-19	166	81,599	18,518	69,750	78,725	91,000
20-24	114	93,922	39,667	78,000	88,689	99,100
25-29	83	108,028	38,798	82,500	100,000	129,096
30-34	64	110,941	34,384	86,500	107,350	127,850
35-39	29	138,973	70,031	89,000	119,900	162,520
Plastics						
Total	141	86,421	28,327	70,000	82,000	99,053
10-14	24	65,913	12,090	58,762	66,500	72,500
15-19	24	82,424	18,455	67,680	82,850	98,240
20-24	15	81,968	16,477	70,000	76,000	86,500
25-29	19	95,157	33,063	75,000	88,250	99,053
30-34	27	98,246	31,163	80,000	89,850	108,000
35-39	16	107,316	28,289	89,150	100,040	115,260

(continued)

Note: Categories with fewer than 15 cases have been suppressed

Table 2.4.3 (Continued)

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by INDUSTRY and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Rubber						
Total	28	79,776	22,669	64,348	78,072	89,057
Soaps						
Total	39	85,094	24,600	67,000	78,000	107,000
Other manufactures						
Total	232	82,293	26,106	64,300	77,274	95,040
10-14	35	64,150	10,715	60,000	62,500	68,000
15-19	34	70,753	14,694	62,000	70,450	78,120
20-24	45	78,640	16,844	69,000	77,040	84,180
25-29	40	97,453	29,478	76,350	89,450	114,000
30-34	32	101,343	29,232	81,500	95,540	111,063
35-39	24	92,269	27,706	76,860	90,000	101,854

Note: Categories with fewer than 15 cases have been suppressed

Table 2.4.4

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by GEOGRAPHIC REGION and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
GEOGRAPHIC REGION						
Pacific						
Total	334	83,082	33,614	62,736	75,000	91,600
5-9	16	61,873	9,258	57,133	62,800	67,208
10-14	68	67,071	14,271	60,000	65,900	74,000
15-19	66	72,986	18,554	62,000	69,875	80,000
20-24	59	86,701	38,822	68,600	82,000	92,616
25-29	58	95,887	31,844	75,000	91,456	110,462
30-34	36	97,353	35,370	71,158	89,500	119,637
35-39	22	108,927	61,182	69,730	80,500	144,000
Mountain						
Total	77	74,550	21,977	60,000	70,000	89,500
10-14	18	61,414	8,359	55,000	61,050	68,000
West North Central						
Total	166	83,704	32,350	62,850	76,760	91,000
10-14	30	65,095	10,685	60,000	65,500	72,000
15-19	33	68,392	14,490	56,900	70,000	78,000
20-24	30	81,560	13,608	76,900	81,467	88,900
25-29	24	95,545	37,245	65,117	88,250	127,500
30-34	31	108,862	41,999	76,301	104,000	127,300
West South Central						
Total	211	84,683	47,676	65,000	77,200	94,000
10-14	38	63,239	10,306	58,000	63,402	67,500
15-19	48	87,188	86,958	64,860	72,800	82,000
20-24	40	83,154	22,233	70,000	77,351	94,725
25-29	31	90,722	15,687	81,600	89,000	100,600
30-34	29	100,558	35,763	80,000	94,800	110,000
35-39	16	101,004	31,068	74,882	98,147	126,990
East North Central						
Total	471	86,376	36,050	67,943	80,000	98,000
5-9	22	61,145	7,973	56,000	62,577	67,000
10-14	70	73,225	60,540	61,000	66,850	72,384
15-19	93	72,576	14,851	65,000	71,500	81,400
20-24	86	86,703	20,427	73,000	84,500	98,000
25-29	68	98,264	28,670	81,624	92,800	110,000
30-34	66	96,943	25,191	82,000	91,840	110,000
35-39	43	110,274	49,495	80,000	100,500	134,000
40 or more	23	94,963	25,711	76,800	96,200	116,800

Note: Categories with fewer than 15 cases have been suppressed

Table 2.4.4 (Continued)

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by GEOGRAPHIC REGION and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
East South Central						
Total	55	76,377	22,902	63,696	72,300	85,700
20-24	15	76,640	19,124	67,000	74,628	85,700
Middle Atlantic						
Total	688	86,081	34,289	67,630	80,050	96,750
5-9	35	76,170	101,331	53,055	59,650	65,200
10-14	102	66,219	8,911	62,000	66,000	72,000
15-19	146	78,158	16,364	67,021	75,000	87,400
20-24	108	84,664	16,224	73,130	82,525	95,000
25-29	110	95,566	27,539	79,296	88,375	108,300
30-34	111	104,645	35,671	82,300	97,000	120,000
35-39	50	96,080	27,978	76,000	93,844	109,000
40 or more	26	89,103	25,415	78,500	92,300	105,000
South Atlantic						
Total	379	83,114	30,169	65,760	78,372	93,040
5-9	19	57,418	7,569	51,760	57,500	64,000
10-14	67	65,681	10,955	59,002	65,760	71,000
15-19	64	72,249	15,185	62,850	71,000	79,160
20-24	61	81,939	17,046	72,000	79,680	91,200
25-29	58	92,840	29,156	75,000	88,250	105,000
30-34	61	105,596	46,880	82,948	96,800	104,000
35-39	39	93,147	28,681	82,000	90,000	96,000
New England						
Total	255	88,632	37,186	67,380	78,800	96,480
10-14	55	66,495	11,585	58,367	66,000	72,858
15-19	46	79,345	19,752	65,000	71,855	92,000
20-24	41	90,429	32,954	70,116	80,000	98,000
25-29	28	103,906	50,739	75,300	90,440	104,500
30-34	38	107,274	36,729	82,000	95,000	127,000
35-39	29	111,554	56,111	80,000	94,000	125,000

Note: Categories with fewer than 15 cases have been suppressed

Table 2.4.5

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by TOTAL SUBORDINATES and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
TOTAL SUPERVISED						
None						
Total	25	71,057	16,066	60,584	72,000	84,790
1-2						
Total	476	76,362	28,652	64,500	73,500	84,210
5-9	22	61,656	8,872	55,000	61,700	66,200
10-14	105	71,810	49,745	61,980	66,000	72,000
15-19	101	69,506	11,875	63,000	69,396	76,000
20-24	74	78,029	16,390	68,994	77,700	87,000
25-29	64	82,779	21,082	73,200	80,900	91,816
30-34	59	86,766	17,979	76,200	82,000	96,000
35-39	36	82,792	24,917	69,500	86,442	92,810
40 or more	15	84,013	19,781	73,500	85,000	97,840
3-9						
Total	1949	82,391	30,861	65,500	78,000	92,657
5-9	93	65,715	62,615	52,000	59,000	65,000
10-14	339	64,996	10,696	58,899	65,000	70,800
15-19	389	75,847	33,863	63,988	72,100	83,000
20-24	350	82,534	19,520	71,016	80,000	92,000
25-29	286	92,228	24,176	78,420	89,000	103,080
30-34	277	97,769	28,724	80,000	92,000	110,000
35-39	150	97,043	32,891	76,000	92,000	110,000
40 or more	64	93,175	26,506	79,250	94,000	110,900
10-14						
Total	141	114,364	37,779	91,380	106,700	134,600
15-19	20	94,972	25,275	82,625	97,490	102,500
20-24	24	110,518	23,559	94,500	107,350	119,000
25-29	29	125,273	33,839	103,000	115,000	146,640
30-34	34	129,689	38,670	103,200	123,400	157,000
35-39	16	128,967	52,374	94,441	117,600	144,750
15-29						
Total	69	159,844	69,572	112,000	145,000	183,000
25-29	17	157,259	49,795	116,160	160,000	181,000
30-34	21	167,315	67,364	120,000	146,000	188,000

Note: Categories with fewer than 15 cases have been suppressed

Table 2.4.6

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by EMPLOYER SIZE and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
EMPLOYER SIZE						
Less than 500						
Total	621	79,853	41,646	60,000	70,000	89,000
5-9	29	53,457	9,279	50,000	53,055	60,000
10-14	119	62,494	12,808	53,000	63,000	68,575
15-19	132	77,134	55,555	60,450	69,925	84,000
20-24	94	81,391	40,355	61,818	73,795	88,477
25-29	82	92,652	40,452	65,800	85,000	105,000
30-34	83	91,621	36,279	65,000	81,000	114,000
35-39	56	98,142	48,924	63,300	88,400	130,000
40 or more	25	80,251	31,982	53,000	82,500	100,000
500 to 2,499						
Total	347	83,397	45,262	62,500	76,143	90,000
5-9	17	90,593	145,625	50,000	54,000	58,000
10-14	63	64,853	14,695	55,500	63,440	71,767
15-19	77	69,542	13,504	61,000	68,500	78,000
20-24	53	85,123	21,721	71,016	80,400	92,400
25-29	48	97,777	32,864	78,022	88,625	111,500
30-34	48	107,601	57,897	79,012	87,741	113,500
35-39	30	88,864	32,047	70,000	87,800	97,895
2,500 to 9,999						
Total	446	84,599	36,996	66,200	78,000	93,800
5-9	24	62,527	10,115	56,132	62,264	68,000
10-14	79	72,061	56,788	61,100	65,364	71,100
15-19	80	76,163	20,735	64,700	72,250	82,200
20-24	81	86,194	39,343	70,000	82,000	93,800
25-29	82	92,403	26,217	73,500	89,600	102,000
30-34	55	100,049	30,770	80,000	90,036	110,000
35-39	32	98,360	30,935	74,032	91,500	110,522
10,000 to 24,999						
Total	383	82,153	20,006	67,600	78,025	92,000
10-14	65	68,116	8,265	64,000	67,320	72,000
15-19	85	74,833	14,537	65,500	72,000	81,000
20-24	76	82,823	15,193	70,558	82,000	93,395
25-29	47	89,025	24,280	75,500	85,000	95,000
30-34	54	96,999	18,915	84,000	92,000	110,000
35-39	33	97,221	25,020	81,000	92,688	106,000
25,000 or more						
Total	851	90,727	29,453	72,000	84,500	102,000
5-9	33	63,444	8,833	59,000	63,900	67,000
10-14	133	67,844	8,431	62,000	67,380	73,000
15-19	143	77,808	12,178	69,000	76,400	86,300
20-24	156	87,915	14,198	77,300	86,200	98,640
25-29	144	100,167	26,782	83,700	94,200	110,662
30-34	149	109,662	33,246	88,704	103,000	121,800
35-39	66	116,218	49,688	85,000	102,594	126,500
40 or more	27	104,306	22,482	86,173	105,000	120,000

Note: Categories with fewer than 15 cases have been suppressed

Table 3.1.1

SALARIES of GOVERNMENTAL CHEMISTS employed FULL-TIME
by DEGREE and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
HIGHEST DEGREE						
BS						
Total	157	48,958	14,895	37,926	47,800	56,928
5-9	20	39,285	9,928	31,500	36,404	48,000
10-14	16	43,185	8,454	35,260	42,500	49,700
15-19	26	49,005	12,818	41,500	47,862	55,000
20-24	26	50,202	14,087	42,036	47,456	56,928
25-29	25	55,690	11,462	48,500	52,200	62,000
MS						
Total	106	57,105	16,807	45,939	54,523	65,000
15-19	19	49,480	15,657	38,137	49,580	60,583
25-29	30	57,417	13,809	48,560	54,858	64,400
35-39	15	71,849	19,541	53,946	67,149	88,740
PhD						
Total	315	74,873	38,594	61,000	72,000	84,000
10-14	33	74,685	107551	47,449	56,688	65,000
15-19	46	64,187	14,869	53,000	63,330	74,360
20-24	41	67,277	13,202	61,913	66,504	73,100
25-29	47	79,068	16,438	68,724	80,014	88,100
30-34	75	79,338	14,489	69,800	78,546	92,227
35-39	36	80,524	18,032	70,877	82,560	95,970
40 or more	34	79,865	28,208	53,946	83,461	98,714

Note: Categories with fewer than 15 cases have been suppressed

Table 4.1.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by CONTRACT STATUS and RANK
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
CONTRACT						
9-10 month						
Full professor	688	69,519	20,344	55,100	65,000	77,500
Assoc professor	226	47,679	10,448	40,800	46,000	52,500
Asst professor	257	40,549	7,861	35,200	39,400	44,000
Instructor	26	31,785	8,471	29,120	32,500	34,596
No ranks	26	46,708	11,340	38,000	46,585	56,000
11-12 month						
Full professor	206	98,184	32,569	78,000	93,089	111,820
Assoc professor	71	68,405	17,944	57,070	63,000	79,800
Asst professor	51	49,693	10,930	40,000	50,333	58,740
Instructor	22	44,582	19,954	27,000	39,750	55,000
Research appt	99	47,191	22,036	31,000	43,000	55,940
Other nonfaculty	54	57,558	30,823	40,000	50,500	66,000

Note: Categories with fewer than 15 cases have been suppressed

Table 4.2.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and YEARS SINCE PhD - 9 or 10 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
RANK						
Full professor						
Total	683	69,506	20,347	55,200	65,000	77,500
10-14	26	59,084	15,584	47,700	55,620	66,860
15-19	75	65,896	17,778	54,780	62,000	75,000
20-24	99	66,658	20,017	53,628	62,536	75,300
25-29	179	66,016	17,819	55,000	62,211	74,000
30-34	187	69,473	18,813	56,000	67,000	75,000
35-39	89	83,581	23,083	66,522	80,929	97,600
40+	23	82,135	21,596	66,540	80,000	93,100
Assoc professor						
Total	223	47,713	10,496	40,800	46,000	53,000
5-9	38	45,380	9,722	39,618	41,712	47,500
10-14	67	45,815	7,912	40,000	44,900	50,752
15-19	59	46,474	9,664	39,800	45,011	49,561
20-24	17	52,926	9,975	45,834	49,500	61,500
25-29	18	52,264	7,491	46,512	50,500	54,000
Asst professor						
Total	256	40,535	7,873	35,175	39,202	44,000
2-4	65	39,021	6,863	34,750	37,002	43,000
5-9	140	40,452	6,168	35,293	40,100	44,000
10-14	30	41,554	6,494	36,900	40,026	44,000
Instructor						
Total	26	31,785	8,471	29,120	32,500	34,596
No ranks						
Total	26	46,708	11,340	38,000	46,585	56,000

Note: Categories with fewer than 15 cases have been suppressed

Table 4.2.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and YEARS SINCE PhD - 11 or 12 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
RANK						
Full professor						
Total	206	98,184	32,569	78,000	93,089	111,820
15-19	18	77,318	25,180	62,000	72,500	84,000
20-24	35	100,542	29,825	78,000	105,000	125,000
25-29	59	103,459	37,838	84,000	91,400	108,900
30-34	53	102,503	32,231	82,053	97,000	124,034
35-39	27	86,229	18,783	72,900	85,200	101,500
Assoc professor						
Total	71	68,405	17,944	57,070	63,000	79,800
10-14	17	65,321	14,521	56,000	60,100	70,000
Asst professor						
Total	51	49,693	10,930	40,000	50,333	58,740
5-9	22	51,477	9,806	45,000	52,500	58,812
Instructor						
Total	22	44,582	19,954	27,000	39,750	55,000
Research appt						
Total	99	47,191	22,036	31,000	43,000	55,940
2-4	15	34,850	12,781	24,000	32,000	46,000
5-9	25	37,014	9,057	31,000	38,000	43,000
Other nonfaculty						
Total	54	57,558	30,823	40,000	50,500	66,000

Note: Categories with fewer than 15 cases have been suppressed

Table 4.3.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and ACADEMIC WORK FUNCTION - 9 or 10 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK FUNCTION						
Teaching						
Full professor	475	64,321	16,866	53,000	62,000	72,500
Assoc professor	187	46,266	9,298	40,000	44,500	50,000
Asst professor	204	39,268	7,697	35,000	38,000	42,564
Instructor	24	31,689	8,778	29,060	32,500	34,548
No ranks	25	46,257	11,333	38,000	45,170	54,500
Research						
Full professor	137	81,497	21,728	65,500	79,485	98,000
Assoc professor	21	53,885	7,134	47,500	55,000	59,000
Asst professor	37	45,606	6,255	42,125	45,200	50,000
Administration						
Full professor	22	89,869	26,086	67,500	88,397	106,000

Table 4.3.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and ACADEMIC WORK FUNCTION - 11 or 12 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK FUNCTION						
Teaching						
Full professor	51	74,573	19,089	60,000	75,717	87,178
Assoc professor	22	58,027	8,923	51,000	57,788	65,000
Research						
Full professor	84	108,290	36,398	87,836	100,750	124,017
Assoc professor	36	73,661	20,374	59,076	68,932	89,250
Asst professor	32	52,740	9,513	46,250	53,522	58,906
Research appt	89	46,597	22,154	31,000	42,300	54,276
Administration						
Full professor	47	103,601	29,008	81,400	98,000	125,000
Other nonfaculty	21	78,695	36,761	58,000	73,500	94,248

Note: Categories with fewer than 15 cases have been suppressed

Table 4.4.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and SPECIALTY - 9 or 10 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
SPECIALTY						
Biochemistry						
Full professor	71	73,224	22,333	55,300	70,000	84,950
Assoc professor	26	46,679	9,194	39,800	43,887	50,752
Asst professor	41	39,859	5,844	35,070	39,000	43,824
General chemistry						
Full professor	48	55,327	12,327	47,385	53,615	62,268
Assoc professor	27	46,229	12,171	39,050	42,000	48,252
Asst professor	23	37,753	14,249	31,700	34,000	38,000
Analytical chemistry						
Full professor	71	64,539	19,022	53,000	61,000	72,000
Assoc professor	24	48,026	7,390	43,200	47,640	49,220
Asst professor	32	38,676	4,198	35,275	39,150	42,213
Environmental chemistry						
Full professor	20	78,397	21,325	63,000	76,388	84,500
Asst professor	18	46,686	8,829	39,004	44,653	53,000
Inorganic chemistry						
Full professor	69	69,940	17,639	58,953	66,000	75,000
Assoc professor	31	44,546	5,960	40,000	44,500	47,142
Asst professor	23	40,839	6,259	36,000	41,800	45,000
Materials science						
Full professor	22	79,605	22,542	61,811	78,000	96,500
Organic chemistry						
Full professor	173	68,168	18,737	55,000	65,375	75,000
Assoc professor	54	45,542	9,388	39,618	44,250	53,340
Asst professor	62	39,372	5,090	35,320	38,750	43,000
Physical chemistry						
Full professor	125	69,692	21,420	55,000	65,000	77,000
Assoc professor	29	48,619	8,762	41,000	48,756	54,500
Asst professor	32	41,023	6,775	35,550	40,289	46,264
Polymer chemistry						
Full professor	29	78,543	16,699	67,000	76,000	92,600

Note: Categories with fewer than 15 cases have been suppressed

Table 4.4.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and SPECIALTY - 11 or 12 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
SPECIALTY						
Biochemistry						
Full professor	69	101,438	29,089	84,000	98,500	112,800
Assoc professor	29	69,256	17,652	58,506	60,100	82,500
Research appt	20	42,480	21,327	26,800	38,999	49,000
Medicinal-Pharmaceutical						
Full professor	19	95,792	23,414	83,500	89,000	105,000
Organic chemistry						
Full professor	23	101,052	51,257	69,200	85,500	125,000
Physical chemistry						
Full professor	16	93,108	36,824	64,039	82,500	130,000
Research appt	19	49,661	26,495	31,000	44,134	64,900
Other nonchemistry						
Full professor	21	101,937	36,686	83,000	91,400	125,000

Note: Categories with fewer than 15 cases have been suppressed

Table 4.5.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and TENURE - 9 or 10 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
TENURE STATUS						
Yes						
Full professor	673	69,874	20,344	55,647	65,100	77,777
Assoc professor	199	48,038	9,577	41,150	46,400	53,340
Asst professor	19	45,549	15,524	36,900	43,000	49,900
No, in tenure track						
Assoc professor	18	43,219	8,343	39,000	41,555	47,820
Asst professor	220	40,647	6,790	36,000	40,000	44,000
No, not in tenure track						
Instructor	20	32,084	8,632	29,935	32,500	34,548

Table 4.5.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and TENURE - 11 or 12 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
TENURE STATUS						
Yes						
Full professor	192	98,369	31,640	78,050	93,089	110,910
Assoc professor	53	63,749	13,161	56,000	60,000	69,985
No, in tenure track						
Asst professor	29	52,338	10,745	48,500	54,044	59,000
No, not in tenure track						
Asst professor	17	47,390	9,877	39,000	45,000	53,000
Instructor	15	42,580	18,550	27,000	35,251	55,000
Research appt	52	49,648	22,331	33,905	45,000	60,250
Not applicable						
Research appt	40	42,947	20,817	26,300	37,999	51,600
Other nonfaculty	36	56,750	34,914	37,500	49,685	63,000

Note: Categories with fewer than 15 cases have been suppressed

Table 4.6.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and INSTITUTIONAL CONTROL - 9 or 10 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
INSTITUTIONAL CONTROL						
Public						
Full professor	435	69,713	18,705	57,000	65,105	76,000
Assoc professor	140	47,154	9,959	40,450	46,022	51,096
Asst professor	155	41,884	7,865	36,220	41,468	44,700
Instructor	19	30,918	7,090	29,120	32,000	34,000
No ranks	24	47,983	10,805	38,250	48,750	57,000
Private						
Full professor	250	69,100	22,823	53,000	64,825	81,500
Assoc professor	84	48,380	11,194	40,913	45,839	55,775
Asst professor	102	38,521	7,445	33,767	36,950	42,000

Table 4.6.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and INSTITUTIONAL CONTROL - 11 or 12 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
INSTITUTIONAL CONTROL						
Public						
Full professor	137	97,590	25,703	80,000	93,178	110,000
Assoc professor	41	64,006	14,812	56,000	60,000	70,000
Asst professor	30	52,272	9,938	48,500	53,000	58,812
Instructor	14	39,929	17,806	25,000	38,126	46,500
Research appt	63	47,205	21,515	31,000	43,000	54,276
Other nonfaculty	37	56,673	23,294	43,250	52,000	62,500
Private						
Full professor	67	99,161	43,886	69,760	91,000	125,000
Assoc professor	30	74,418	20,243	60,000	71,440	86,000
Asst professor	21	46,007	11,455	36,105	45,000	56,000
Research appt	35	47,017	23,552	30,000	42,000	60,500
Other nonfaculty	17	59,485	43,822	31,000	47,800	73,500

Note: Categories with fewer than 15 cases have been suppressed

Table 4.7.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and TYPE OF INSTITUTION - 9 or 10 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
TYPE OF INSTITUTION						
NonPhD-granting						
Full professor	344	59,029	11,495	50,157	58,510	66,770
Assoc professor	143	44,312	7,829	39,000	43,100	48,000
Asst professor	160	37,149	4,635	34,000	36,252	40,100
No ranks	25	46,257	11,333	38,000	45,170	54,500
PhD-granting						
Full professor	320	79,836	21,463	65,000	75,000	92,800
Assoc professor	79	53,750	11,801	46,130	51,000	59,500
Asst professor	91	45,752	7,087	41,800	44,829	49,000
Medical school						
Full professor	24	82,325	26,542	59,900	77,375	103,250

Table 4.7.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and TYPE OF INSTITUTION - 11 or 12 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
TYPE OF INSTITUTION						
NonPhD-granting						
Full professor	46	74,532	21,423	62,122	73,630	84,500
PhD-granting						
Full professor	98	104,358	32,062	85,680	98,165	120,800
Assoc professor	30	64,555	15,908	55,000	60,288	70,000
Asst professor	21	48,875	9,526	40,440	50,000	57,300
Research appt	80	48,466	23,223	31,400	43,000	56,338
Other nonfaculty	42	53,436	21,614	39,000	50,750	62,500
Medical school						
Full professor	62	105,973	32,355	85,200	100,000	122,683
Assoc professor	29	76,865	18,918	60,000	75,000	86,500
Asst professor	21	56,497	7,740	51,500	56,500	60,000
Research appt	17	42,842	16,008	33,500	43,533	55,940

Note: Categories with fewer than 15 cases have been suppressed

Table 4.8.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK, INST CONTROL and TYPE OF INSTITUTION - 9 or 10 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
CONTROL & TYPE INSTITUTION						
Public						
NonPhD-granting						
Full professor	196	60,339	9,749	53,158	60,544	66,000
Assoc professor	80	43,932	6,749	39,260	42,282	47,082
Asst professor	80	38,178	4,682	35,000	36,890	42,000
No ranks	23	47,547	10,830	38,000	48,000	56,000
PhD-granting						
Full professor	225	77,312	20,364	63,500	72,600	86,350
Assoc professor	56	51,686	11,863	45,650	49,500	56,200
Asst professor	71	45,158	6,035	41,400	44,010	48,900
Private						
NonPhD-granting						
Full professor	146	57,260	13,158	47,434	55,317	67,000
Assoc professor	63	44,795	9,051	38,764	44,000	49,000
Asst professor	80	36,119	4,380	33,000	35,442	39,000
PhD-granting						
Full professor	94	85,558	22,868	68,400	83,000	100,000
Assoc professor	21	59,133	10,209	53,340	58,000	63,000
Asst professor	20	47,858	9,885	43,850	46,264	51,000

Note: Categories with fewer than 15 cases have been suppressed

Table 4.8.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK, INST CONTROL, and TYPE OF INSTITUTION - 11 or 12 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
CONTROL & TYPE INSTITUTION						
Public						
NonPhD-granting						
Full professor	20	83,695	16,137	71,924	81,807	97,750
PhD-granting						
Full professor	72	99,289	24,748	82,450	94,237	111,910
Assoc professor	21	58,401	9,681	53,664	60,000	65,000
Asst professor	18	49,040	9,726	40,440	50,000	57,300
Research appt	53	48,404	21,975	31,800	43,000	53,000
Other nonfaculty	31	54,337	21,250	40,000	52,000	61,000
Medical school						
Full professor	45	101,046	28,923	84,000	97,093	116,000
Private						
NonPhD-granting						
Full professor	26	67,484	22,569	52,000	64,327	79,709
PhD-granting						
Full professor	25	119,330	45,040	96,300	109,000	130,000
Research appt	27	48,588	25,939	26,000	42,000	64,300
Medical school						
Full professor	16	119,121	39,213	92,000	109,437	137,500
Assoc professor	15	79,841	19,442	63,000	78,000	92,000

Note: Categories with fewer than 15 cases have been suppressed

Table 4.9.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and SEX - 9 or 10 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Men						
Full professor	622	70,055	20,868	55,000	65,506	79,000
Assoc professor	160	48,326	10,544	41,230	46,596	53,588
Asst professor	165	41,231	8,619	35,400	41,000	44,500
No ranks	19	44,948	11,496	35,018	44,500	54,500
Women						
Full professor	53	64,651	13,764	56,000	60,607	71,284
Assoc professor	66	46,111	10,118	40,000	43,300	50,000
Asst professor	89	39,101	6,072	35,000	38,000	42,500

Table 4.9.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and SEX - 11 or 12 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Men						
Full professor	186	100,139	32,801	80,000	95,500	115,000
Assoc professor	58	68,159	17,943	57,400	62,500	75,427
Asst professor	39	50,124	11,037	40,440	51,500	58,740
Instructor	19	43,832	19,642	27,000	38,500	55,000
Research appt	77	49,676	23,468	32,248	44,400	62,150
Other nonfaculty	43	58,915	32,785	40,000	50,000	63,000
Women						
Full professor	20	80,004	24,158	62,213	74,950	91,939
Research appt	21	37,850	13,041	27,000	36,000	43,533

Note: Categories with fewer than 15 cases have been suppressed

Table 4.10.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and GEOGRAPHIC REGION - 9 or 10 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
GEOGRAPHIC REGION						
Pacific						
Full professor	80	73,286	18,838	61,106	66,000	79,743
Assoc professor	19	50,505	9,335	44,000	48,000	56,000
Asst professor	25	46,804	12,520	41,137	43,631	50,000
Mountain						
Full professor	38	76,102	22,784	61,000	69,550	86,500
Assoc professor	16	48,374	9,383	40,250	44,888	56,500
West North Central						
Full professor	64	62,464	21,052	48,471	55,730	74,000
Assoc professor	23	41,139	7,121	38,015	40,800	46,200
Asst professor	25	37,837	5,445	34,000	36,000	42,300
West South Central						
Full professor	55	67,082	21,206	53,628	61,146	73,000
Assoc professor	15	42,806	4,549	40,000	41,750	46,386
Asst professor	31	38,055	5,737	34,000	36,400	42,000
East North Central						
Full professor	127	69,015	20,662	53,896	62,536	76,000
Assoc professor	32	45,800	7,873	40,050	44,450	50,000
Asst professor	45	40,202	7,443	35,400	38,000	45,000
East South Central						
Full professor	36	59,484	18,716	47,357	57,172	67,732
Assoc professor	18	40,928	4,596	36,300	40,975	45,000
Asst professor	18	36,108	3,421	33,000	35,417	39,600
Middle Atlantic						
Full professor	120	72,238	16,983	60,100	72,000	78,202
Assoc professor	48	51,014	10,137	44,250	49,531	56,600
Asst professor	39	40,427	5,568	36,000	40,244	44,000
South Atlantic						
Full professor	95	66,365	20,391	52,230	62,000	73,100
Assoc professor	37	49,459	14,112	41,310	46,512	53,611
Asst professor	47	41,022	8,145	36,000	40,937	44,010
New England						
Full professor	70	76,326	20,757	63,500	73,250	82,720
Assoc professor	16	54,950	11,704	46,608	51,342	62,228

Note: Categories with fewer than 15 cases have been suppressed

Table 4.10.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and GEOGRAPHIC REGION - 11 or 12 Month Contract
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
GEOGRAPHIC REGION						
Pacific						
Full professor	24	110,609	51,669	75,500	98,738	123,650
Research appt	15	59,857	32,778	32,000	48,000	80,000
West North Central						
Full professor	26	105,511	26,520	90,000	107,737	127,000
West South Central						
Full professor	19	90,622	31,649	68,207	82,053	109,000
East North Central						
Full professor	32	96,813	23,380	86,200	96,547	104,500
Research appt	16	53,212	24,618	34,150	47,083	67,050
Middle Atlantic						
Full professor	30	96,732	33,414	76,000	92,737	108,000
Assoc professor	16	66,132	14,324	54,339	64,500	77,614
Research appt	22	42,966	14,262	30,500	41,000	52,200
South Atlantic						
Full professor	41	99,858	32,216	78,000	94,000	120,000
Assoc professor	15	63,944	12,688	57,070	60,475	70,000

Note: Categories with fewer than 15 cases have been suppressed

Table 5.1.1

STIPENDS of ACADEMIC POSTDOCTORAL FELLOWS
by INSTITUTIONAL CONTROL and WORK SPECIALTY
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK SPECIALTY						
Biochemistry						
Total	34	26,254	4,298	23,300	25,548	28,000
Public	15	25,231	5,030	22,376	23,300	27,000
Private	19	27,061	3,552	24,300	26,400	30,000
Chemistry						
Total	117	37,035	54,694	23,000	25,000	29,500
Public	81	41,511	65,240	23,000	25,000	29,000
Private	34	27,049	5,983	24,000	25,844	30,000

Note: Categories with fewer than 15 cases have been suppressed

Table 6.6.1

SALARIES of CHEMICAL ENGINEERS employed FULL-TIME in INDUSTRY
by DEGREE and YEARS SINCE BS
1997 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
HIGHEST DEGREE						
BS						
Total	117	72,892	64,817	50,000	60,000	77,000
2-4	17	42,399	7,076	37,050	43,500	45,660
5-9	21	50,329	9,234	44,800	50,000	59,200
10-14	19	92,668	138,321	55,000	58,500	70,000
15-19	18	70,953	19,614	58,400	60,633	81,100
20-24	18	72,628	20,927	55,800	69,510	85,000
MS						
Total	99	74,517	26,175	59,000	70,000	80,500
15-19	22	68,891	17,656	58,000	65,750	77,100
20-24	24	78,754	20,018	67,287	74,608	78,870
PhD						
Total	164	84,274	21,235	69,600	79,750	94,500
10-14	41	68,939	8,879	62,400	69,000	74,500
15-19	28	74,992	15,719	62,550	74,750	85,000
20-24	24	85,863	15,887	75,150	84,087	92,050
25-29	18	96,699	18,913	84,000	92,000	109,000
30-34	22	103,256	25,667	78,500	102,500	122,139
35-39	19	99,735	17,434	86,000	96,000	110,150

Note: Categories with fewer than 15 cases have been suppressed

Table 7.1.1

EMPLOYMENT STATUS OF ALL RESPONDENTS
by WORK SPECIALTY
1997 Survey of ACS Members

	EMPLOYMENT STATUS							Total
	Full-time	Part-time	Postdoc	Seeking empl	Not seeking empl	Fully Ret	No Answer	
WORK SPECIALTY								
Chemical engineering	493	8	3	3	4	14	0	525
Row Percent	93.9%	1.5%	.6%	.6%	.8%	2.7%	.0%	100.0%
Column Percent	5.1%	3.5%	1.3%	1.5%	4.5%	5.3%	.0%	4.9%
Biochemistry	492	3	45	9	5	17	0	571
Row Percent	86.2%	.5%	7.9%	1.6%	.9%	3.0%	.0%	100.0%
Column Percent	5.1%	1.3%	19.9%	4.4%	5.7%	6.5%	.0%	5.3%
Biotechnology	239	7	7	9	2	2	0	266
Row Percent	89.8%	2.6%	2.6%	3.4%	.8%	.8%	.0%	100.0%
Column Percent	2.5%	3.1%	3.1%	4.4%	2.3%	.8%	.0%	2.5%
General chemistry	478	33	1	8	3	15	0	538
Row Percent	88.8%	6.1%	.2%	1.5%	.6%	2.8%	.0%	100.0%
Column Percent	4.9%	14.6%	.4%	3.9%	3.4%	5.7%	.0%	5.0%
Agricultural chemistry	233	11	3	5	2	9	0	263
Row Percent	88.6%	4.2%	1.1%	1.9%	.8%	3.4%	.0%	100.0%
Column Percent	2.4%	4.9%	1.3%	2.5%	2.3%	3.4%	.0%	2.4%
Analytical chemistry	1690	25	15	34	19	38	1	1822
Row Percent	92.8%	1.4%	.8%	1.9%	1.0%	2.1%	.1%	100.0%
Column Percent	17.4%	11.1%	6.6%	16.7%	21.6%	14.5%	5.6%	17.0%
Clinical chemistry	98	3	1	5	2	1	0	110
Row Percent	89.1%	2.7%	.9%	4.5%	1.8%	.9%	.0%	100.0%
Column Percent	1.0%	1.3%	.4%	2.5%	2.3%	.4%	.0%	1.0%
Environmental chemistry	664	23	5	27	4	10	2	735
Row Percent	90.3%	3.1%	.7%	3.7%	.5%	1.4%	.3%	100.0%
Column Percent	6.8%	10.2%	2.2%	13.2%	4.5%	3.8%	11.1%	6.8%
Inorganic chemistry	318	5	12	5	1	9	0	350
Row Percent	90.9%	1.4%	3.4%	1.4%	.3%	2.6%	.0%	100.0%
Column Percent	3.3%	2.2%	5.3%	2.5%	1.1%	3.4%	.0%	3.3%
Materials science	346	10	5	6	3	8	0	378
Row Percent	91.5%	2.6%	1.3%	1.6%	.8%	2.1%	.0%	100.0%
Column Percent	3.6%	4.4%	2.2%	2.9%	3.4%	3.1%	.0%	3.5%
Medicinal-Pharmaceutical	663	10	21	13	7	10	1	725
Row Percent	91.4%	1.4%	2.9%	1.8%	1.0%	1.4%	.1%	100.0%
Column Percent	6.8%	4.4%	9.3%	6.4%	8.0%	3.8%	5.6%	6.8%

(continued)

Table 8.2.1

EMPLOYMENT STATUS OF ALL CHEMISTS
by AGE
1997 Survey of ACS Members

AGE	EMPLOYMENT STATUS					Total	
	Full-time	Part-time	Postdoc	Seeking empl	Not seeking empl		
20-24	60	2	4	0	2	0	68
Row Percent	88.2%	2.9%	5.9%	.0%	2.9%	.0%	100.0%
Column Percent	.7%	1.0%	1.8%	.0%	2.4%	.0%	.7%
25-29	532	8	44	8	7	0	599
Row Percent	88.8%	1.3%	7.3%	1.3%	1.2%	.0%	100.0%
Column Percent	6.0%	4.0%	20.1%	4.2%	8.5%	.0%	6.1%
30-34	1115	20	104	17	14	0	1270
Row Percent	87.8%	1.6%	8.2%	1.3%	1.1%	.0%	100.0%
Column Percent	12.6%	10.0%	47.5%	8.9%	17.1%	.0%	13.0%
35-39	1347	27	36	37	6	3	1456
Row Percent	92.5%	1.9%	2.5%	2.5%	.4%	.2%	100.0%
Column Percent	15.2%	13.4%	16.4%	19.3%	7.3%	1.3%	14.9%
40-44	1438	22	18	27	6	0	1511
Row Percent	95.2%	1.5%	1.2%	1.8%	.4%	.0%	100.0%
Column Percent	16.3%	10.9%	8.2%	14.1%	7.3%	.0%	15.5%
45-49	1273	22	7	22	14	3	1341
Row Percent	94.9%	1.6%	.5%	1.6%	1.0%	.2%	100.0%
Column Percent	14.4%	10.9%	3.2%	11.5%	17.1%	1.3%	13.7%
50-54	1251	13	3	26	9	0	1302
Row Percent	96.1%	1.0%	.2%	2.0%	.7%	.0%	100.0%
Column Percent	14.1%	6.5%	1.4%	13.5%	11.0%	.0%	13.3%
55-59	1024	27	1	28	11	0	1091
Row Percent	93.9%	2.5%	.1%	2.6%	1.0%	.0%	100.0%
Column Percent	11.6%	13.4%	.5%	14.6%	13.4%	.0%	11.2%
60-64	618	31	2	22	7	3	683
Row Percent	90.5%	4.5%	.3%	3.2%	1.0%	.4%	100.0%
Column Percent	7.0%	15.4%	.9%	11.5%	8.5%	1.3%	7.0%
65-69	174	26	0	4	5	1	210
Row Percent	82.9%	12.4%	.0%	1.9%	2.4%	.5%	100.0%
Column Percent	2.0%	12.9%	.0%	2.1%	6.1%	.4%	2.1%
70 or more	12	3	0	1	1	0	17
Row Percent	70.6%	17.6%	.0%	5.9%	5.9%	.0%	100.0%
Column Percent	.1%	1.5%	.0%	.5%	1.2%	.0%	.2%

Table 8.5.2

EMPLOYMENT STATUS OF INDUSTRIAL CHEMISTS
by TYPE OF INDUSTRY
1997 Survey of ACS Members

	EMPLOYMENT STATUS						Total
	Full-time	Part-time	Postdoc	Seeking empl	Not seeking empl	No Answer	
NONACADEMIC EMPLOYER							
Analytical serv lab	256	6	0	17	3	0	282
Row Percent	90.8%	2.1%	.0%	6.0%	1.1%	.0%	100.0%
Column Percent	4.6%	11.3%	.0%	13.9%	9.4%	.0%	4.9%
Contract res firm	192	7	2	6	1	2	210
Row Percent	91.4%	3.3%	1.0%	2.9%	.5%	1.0%	100.0%
Column Percent	3.4%	13.2%	16.7%	4.9%	3.1%	40.0%	3.6%
Utility	46	0	0	1	2	0	49
Row Percent	93.9%	.0%	.0%	2.0%	4.1%	.0%	100.0%
Column Percent	.8%	.0%	.0%	.8%	6.3%	.0%	.8%
Other nonmanuf	234	6	1	8	1	0	250
Row Percent	93.6%	2.4%	.4%	3.2%	.4%	.0%	100.0%
Column Percent	4.2%	11.3%	8.3%	6.6%	3.1%	.0%	4.3%
Aerospace	84	1	0	4	0	0	89
Row Percent	94.4%	1.1%	.0%	4.5%	.0%	.0%	100.0%
Column Percent	1.5%	1.9%	.0%	3.3%	.0%	.0%	1.5%
Basic chemicals	251	1	0	1	1	0	254
Row Percent	98.8%	.4%	.0%	.4%	.4%	.0%	100.0%
Column Percent	4.5%	1.9%	.0%	.8%	3.1%	.0%	4.4%
Specialty chems	746	6	0	16	5	1	774
Row Percent	96.4%	.8%	.0%	2.1%	.6%	.1%	100.0%
Column Percent	13.4%	11.3%	.0%	13.1%	15.6%	20.0%	13.4%
Agricultural chems	176	6	1	1	0	0	184
Row Percent	95.7%	3.3%	.5%	.5%	.0%	.0%	100.0%
Column Percent	3.2%	11.3%	8.3%	.8%	.0%	.0%	3.2%
Biochemical prods	82	0	1	3	1	0	87
Row Percent	94.3%	.0%	1.1%	3.4%	1.1%	.0%	100.0%
Column Percent	1.5%	.0%	8.3%	2.5%	3.1%	.0%	1.5%
Coatings	238	4	0	10	2	0	254
Row Percent	93.7%	1.6%	.0%	3.9%	.8%	.0%	100.0%
Column Percent	4.3%	7.5%	.0%	8.2%	6.3%	.0%	4.4%
Electronics	117	0	0	3	1	0	121
Row Percent	96.7%	.0%	.0%	2.5%	.8%	.0%	100.0%
Column Percent	2.1%	.0%	.0%	2.5%	3.1%	.0%	2.1%
Food	146	1	0	5	1	1	154
Row Percent	94.8%	.6%	.0%	3.2%	.6%	.6%	100.0%
Column Percent	2.6%	1.9%	.0%	4.1%	3.1%	20.0%	2.7%

(continued)

Table 8.6.1

EMPLOYMENT STATUS OF NON-ACADEMIC CHEMISTS
by WORK FUNCTION
1997 Survey of ACS Members

WORK FUNCTION	EMPLOYMENT STATUS						Total
	Full-time	Part-time	Postdoc	Seeking empl	Not seeking empl	No Answer	
R&D Mgt	876	7	0	11	5	1	900
Row Percent	97.3%	.8%	.0%	1.2%	.6%	.1%	100.0%
Column Percent	13.3%	5.9%	.0%	7.2%	8.9%	16.7%	13.0%
Basic research	617	4	32	13	7	0	673
Row Percent	91.7%	.6%	4.8%	1.9%	1.0%	.0%	100.0%
Column Percent	9.4%	3.4%	78.0%	8.5%	12.5%	.0%	9.7%
Applied research	2376	27	8	42	9	1	2463
Row Percent	96.5%	1.1%	.3%	1.7%	.4%	.0%	100.0%
Column Percent	36.2%	22.7%	19.5%	27.5%	16.1%	16.7%	35.5%
General Mgt	438	2	0	17	1	0	458
Row Percent	95.6%	.4%	.0%	3.7%	.2%	.0%	100.0%
Column Percent	6.7%	1.7%	.0%	11.1%	1.8%	.0%	6.6%
Marketing	358	11	0	7	3	0	379
Row Percent	94.5%	2.9%	.0%	1.8%	.8%	.0%	100.0%
Column Percent	5.5%	9.2%	.0%	4.6%	5.4%	.0%	5.5%
Production	638	8	0	17	6	1	670
Row Percent	95.2%	1.2%	.0%	2.5%	.9%	.1%	100.0%
Column Percent	9.7%	6.7%	.0%	11.1%	10.7%	16.7%	9.7%
Health & Safety	297	4	0	5	3	1	310
Row Percent	95.8%	1.3%	.0%	1.6%	1.0%	.3%	100.0%
Column Percent	4.5%	3.4%	.0%	3.3%	5.4%	16.7%	4.5%
Forensics	64	1	0	2	1	0	68
Row Percent	94.1%	1.5%	.0%	2.9%	1.5%	.0%	100.0%
Column Percent	1.0%	.8%	.0%	1.3%	1.8%	.0%	1.0%
Other lab analysis	341	8	0	19	7	0	375
Row Percent	90.9%	2.1%	.0%	5.1%	1.9%	.0%	100.0%
Column Percent	5.2%	6.7%	.0%	12.4%	12.5%	.0%	5.4%
Teaching	13	2	0	0	0	0	15
Row Percent	86.7%	13.3%	.0%	.0%	.0%	.0%	100.0%
Column Percent	.2%	1.7%	.0%	.0%	.0%	.0%	.2%
Chem info services	75	2	0	1	0	0	78
Row Percent	96.2%	2.6%	.0%	1.3%	.0%	.0%	100.0%
Column Percent	1.1%	1.7%	.0%	.7%	.0%	.0%	1.1%
Computers	40	1	1	2	2	0	46
Row Percent	87.0%	2.2%	2.2%	4.3%	4.3%	.0%	100.0%
Column Percent	.6%	.8%	2.4%	1.3%	3.6%	.0%	.7%

(continued)

Table 8.7.1

EMPLOYMENT STATUS OF ALL CHEMISTS
by SPECIALTY
1997 Survey of ACS Members

	EMPLOYMENT STATUS						Total
	Full-time	Part-time	Postdoc	Seeking empl	Not seeking empl	No Answer	
WORK SPECIALTY							
Biochemistry	492	3	45	9	5	17	571
Row Percent	86.2%	.5%	7.9%	1.6%	.9%	3.0%	100.0%
Column Percent	5.6%	1.5%	20.5%	4.7%	6.1%	7.4%	5.8%
Biotechnology	239	7	7	9	2	2	266
Row Percent	89.8%	2.6%	2.6%	3.4%	.8%	.8%	100.0%
Column Percent	2.7%	3.5%	3.2%	4.7%	2.4%	.9%	2.7%
General chemistry	478	33	1	8	3	15	538
Row Percent	88.8%	6.1%	.2%	1.5%	.6%	2.8%	100.0%
Column Percent	5.4%	16.4%	.5%	4.2%	3.7%	6.5%	5.5%
Agricultural chemistry	233	11	3	5	2	9	263
Row Percent	88.6%	4.2%	1.1%	1.9%	.8%	3.4%	100.0%
Column Percent	2.6%	5.5%	1.4%	2.6%	2.4%	3.9%	2.7%
Analytical chemistry	1690	25	15	34	19	39	1822
Row Percent	92.8%	1.4%	.8%	1.9%	1.0%	2.1%	100.0%
Column Percent	19.1%	12.4%	6.8%	17.7%	23.2%	16.9%	18.7%
Clinical chemistry	98	3	1	5	2	1	110
Row Percent	89.1%	2.7%	.9%	4.5%	1.8%	.9%	100.0%
Column Percent	1.1%	1.5%	.5%	2.6%	2.4%	.4%	1.1%
Environmental chemistry	664	23	5	27	4	12	735
Row Percent	90.3%	3.1%	.7%	3.7%	.5%	1.6%	100.0%
Column Percent	7.5%	11.4%	2.3%	14.1%	4.9%	5.2%	7.5%
Inorganic chemistry	318	5	12	5	1	9	350
Row Percent	90.9%	1.4%	3.4%	1.4%	.3%	2.6%	100.0%
Column Percent	3.6%	2.5%	5.5%	2.6%	1.2%	3.9%	3.6%
Materials science	346	10	5	6	3	8	378
Row Percent	91.5%	2.6%	1.3%	1.6%	.8%	2.1%	100.0%
Column Percent	3.9%	5.0%	2.3%	3.1%	3.7%	3.5%	3.9%
Medicinal-Pharmaceutical	663	10	21	13	7	11	725
Row Percent	91.4%	1.4%	2.9%	1.8%	1.0%	1.5%	100.0%
Column Percent	7.5%	5.0%	9.6%	6.8%	8.5%	4.8%	7.4%
Organic chemistry	1208	21	38	18	7	22	1314
Row Percent	91.9%	1.6%	2.9%	1.4%	.5%	1.7%	100.0%
Column Percent	13.7%	10.4%	17.4%	9.4%	8.5%	9.5%	13.5%

(continued)

Table 10.3.1

ALL RESPONDENTS
by WORK SPECIALTY and HIGHEST DEGREE
1997 Survey of ACS Members

	HIGHEST DEGREE				No Answer	Total
	BS	MS	PhD	Other		
WORK SPECIALTY						
Chemical						
engineering	117	122	277	4	5	525
Row Percent	22.3%	23.2%	52.8%	.8%	1.0%	100.0%
Column Percent	4.9%	6.1%	4.5%	3.8%	5.9%	4.9%
Biochemistry	26	41	500	2	2	571
Row Percent	4.6%	7.2%	87.6%	.4%	.4%	100.0%
Column Percent	1.1%	2.1%	8.1%	1.9%	2.4%	5.3%
Biotechnology	33	35	192	2	4	266
Row Percent	12.4%	13.2%	72.2%	.8%	1.5%	100.0%
Column Percent	1.4%	1.8%	3.1%	1.9%	4.7%	2.5%
General chemistry	115	169	244	4	6	538
Row Percent	21.4%	31.4%	45.4%	.7%	1.1%	100.0%
Column Percent	4.8%	8.5%	3.9%	3.8%	7.1%	5.0%
Agricultural						
chemistry	74	39	148	1	1	263
Row Percent	28.1%	14.8%	56.3%	.4%	.4%	100.0%
Column Percent	3.1%	2.0%	2.4%	1.0%	1.2%	2.4%
Analytical						
chemistry	648	371	778	13	12	1822
Row Percent	35.6%	20.4%	42.7%	.7%	.7%	100.0%
Column Percent	27.2%	18.7%	12.6%	12.4%	14.1%	17.0%
Clinical chemistry	28	14	66	1	1	110
Row Percent	25.5%	12.7%	60.0%	.9%	.9%	100.0%
Column Percent	1.2%	.7%	1.1%	1.0%	1.2%	1.0%
Environmental						
chemistry	253	183	287	9	3	735
Row Percent	34.4%	24.9%	39.0%	1.2%	.4%	100.0%
Column Percent	10.6%	9.2%	4.6%	8.6%	3.5%	6.8%
Inorganic						
chemistry	33	40	272	0	5	350
Row Percent	9.4%	11.4%	77.7%	.0%	1.4%	100.0%
Column Percent	1.4%	2.0%	4.4%	.0%	5.9%	3.3%
Materials science	71	48	256	3	0	378
Row Percent	18.8%	12.7%	67.7%	.8%	.0%	100.0%
Column Percent	3.0%	2.4%	4.1%	2.9%	.0%	3.5%

(continued)

Table 10.5.1

ALL RESPONDENTS
by RACE/ETHNICITY and SEX
1997 Survey of ACS Members

	SEX			Total
	Men	Women	No Answer	
RACE/ETHNICITY				
Hispanic	151	72	3	226
Row Percent	66.8%	31.9%	1.3%	100.0%
Column Percent	1.9%	3.2%	.8%	2.1%
Amerind	14	4	0	18
Row Percent	77.8%	22.2%	.0%	100.0%
Column Percent	.2%	.2%	.0%	.2%
Asian	754	258	16	1028
Row Percent	73.3%	25.1%	1.6%	100.0%
Column Percent	9.3%	11.5%	4.2%	9.6%
Black	88	37	1	126
Row Percent	69.8%	29.4%	.8%	100.0%
Column Percent	1.1%	1.6%	.3%	1.2%
White	6226	1693	66	7985
Row Percent	78.0%	21.2%	.8%	100.0%
Column Percent	76.8%	75.2%	17.2%	74.3%
Other Non Hispanic	88	30	0	118
Row Percent	74.6%	25.4%	.0%	100.0%
Column Percent	1.1%	1.3%	.0%	1.1%
No Answer	784	158	297	1239
Row Percent	63.3%	12.8%	24.0%	100.0%
Column Percent	9.7%	7.0%	77.5%	11.5%
Total	8105	2252	383	10740
Row Percent	75.5%	21.0%	3.6%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%

Table 10.7.1

ALL RESPONDENTS
by GEOGRAPHIC REGION and AGE
1997 Survey of ACS Members

GEOGRAPHIC REGION	AGE						Total		
	20-29	30-39	40-49	50-59	60-69	70 or more		No Answer	No answer
Pacific	85	387	417	297	94	3	16	0	1299
Row Percent	6.5%	29.8%	32.1%	22.9%	7.2%	.2%	1.2%	.0%	100.0%
Column Percent	11.7%	13.0%	13.3%	11.4%	10.5%	15.0%	14.5%	.0%	12.1%
Mountain	26	161	146	125	43	0	5	0	506
Row Percent	5.1%	31.8%	28.9%	24.7%	8.5%	.0%	1.0%	.0%	100.0%
Column Percent	3.6%	5.4%	4.7%	4.8%	4.8%	.0%	4.5%	.0%	4.7%
West North Central	51	195	215	172	62	1	6	0	702
Row Percent	7.3%	27.8%	30.6%	24.5%	8.8%	.1%	.9%	.0%	100.0%
Column Percent	7.0%	6.5%	6.9%	6.6%	6.9%	5.0%	5.5%	.0%	6.5%
West South Central	44	234	232	210	55	2	5	0	782
Row Percent	5.6%	29.9%	29.7%	26.9%	7.0%	.3%	.6%	.0%	100.0%
Column Percent	6.1%	7.8%	7.4%	8.1%	6.1%	10.0%	4.5%	.0%	7.3%
East North Central	165	523	613	480	138	4	9	0	1932
Row Percent	8.5%	27.1%	31.7%	24.8%	7.1%	.2%	.5%	.0%	100.0%
Column Percent	22.7%	17.5%	19.6%	18.4%	15.4%	20.0%	8.2%	.0%	18.0%
East South Central	23	97	126	101	39	1	3	0	390
Row Percent	5.9%	24.9%	32.3%	25.9%	10.0%	.3%	.8%	.0%	100.0%
Column Percent	3.2%	3.2%	4.0%	3.9%	4.3%	5.0%	2.7%	.0%	3.6%
Middle Atlantic	150	608	643	552	230	6	27	0	2216
Row Percent	6.8%	27.4%	29.0%	24.9%	10.4%	.3%	1.2%	.0%	100.0%
Column Percent	20.7%	20.3%	20.6%	21.2%	25.6%	30.0%	24.5%	.0%	20.6%
South Atlantic	112	493	467	433	149	1	18	0	1673
Row Percent	6.7%	29.5%	27.9%	25.9%	8.9%	.1%	1.1%	.0%	100.0%
Column Percent	15.4%	16.5%	14.9%	16.6%	16.6%	5.0%	16.4%	.0%	15.6%
New England	60	247	221	202	70	2	4	0	806
Row Percent	7.4%	30.6%	27.4%	25.1%	8.7%	.2%	.5%	.0%	100.0%
Column Percent	8.3%	8.3%	7.1%	7.7%	7.8%	10.0%	3.6%	.0%	7.5%
No answer	10	43	47	36	19	0	17	262	434
Row Percent	2.3%	9.9%	10.8%	8.3%	4.4%	.0%	3.9%	60.4%	100.0%
Column Percent	1.4%	1.4%	1.5%	1.4%	2.1%	.0%	15.5%	100.0%	4.0%
Total	726	2988	3127	2608	899	20	110	262	10740
Row Percent	6.8%	27.8%	29.1%	24.3%	8.4%	.2%	1.0%	2.4%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table 10.8.1

ALL RESPONDENTS
by GEOGRAPHIC REGION and WORK FUNCTION
1997 Survey of ACS Members

WORK FUNCTION	GEOGRAPHIC REGION										Total
	Pacific	Mount	WN	WS	EN	ES	Middle	S AtI	New	No	
	Row	Column	Central	Central	Central	Central	AtI	AtI	England	Answer	
R&D Mgt	110	43	75	49	196	35	241	163	87	13	101
Row Percent	10.9%	4.2%	7.4%	4.8%	19.4%	3.5%	23.8%	16.1%	8.6%	1.3%	100.0%
Column Percent	8.5%	8.5%	10.7%	6.3%	10.1%	9.0%	10.9%	9.7%	10.8%	3.0%	9.4%
Basic research	128	46	43	50	156	27	212	149	74	15	900
Row Percent	14.2%	5.1%	4.8%	5.6%	17.3%	3.0%	23.6%	16.6%	8.2%	1.7%	100.0%
Column Percent	9.9%	9.1%	6.1%	6.4%	8.1%	6.9%	9.6%	8.9%	9.2%	3.5%	8.4%
Applied research	328	123	172	203	534	76	638	411	234	38	2757
Row Percent	11.9%	4.5%	6.2%	7.4%	19.4%	2.8%	23.1%	14.9%	8.5%	1.4%	100.0%
Column Percent	25.3%	24.3%	24.5%	26.0%	27.6%	19.5%	28.8%	24.6%	29.0%	8.8%	25.7%
General Mgt	85	29	39	46	81	23	113	104	40	5	565
Row Percent	15.0%	5.1%	6.9%	8.1%	14.3%	4.1%	20.0%	18.4%	7.1%	.9%	100.0%
Column Percent	6.5%	5.7%	5.6%	5.9%	4.2%	5.9%	5.1%	6.2%	5.0%	1.2%	5.3%
Marketing	54	16	28	41	89	14	100	74	42	6	464
Row Percent	11.6%	3.4%	6.0%	8.8%	19.2%	3.0%	21.6%	15.9%	9.1%	1.3%	100.0%
Column Percent	4.2%	3.2%	4.0%	5.2%	4.6%	3.6%	4.5%	4.4%	5.2%	1.4%	4.3%
Production	74	23	57	72	149	39	165	102	41	20	742
Row Percent	10.0%	3.1%	7.7%	9.7%	20.1%	5.3%	22.2%	13.7%	5.5%	2.7%	100.0%
Column Percent	5.7%	4.5%	8.1%	9.2%	7.7%	10.0%	7.4%	6.1%	5.1%	4.6%	6.9%
Health & Safety	41	19	24	24	65	18	85	71	24	6	377
Row Percent	10.9%	5.0%	6.4%	6.4%	17.2%	4.8%	22.5%	18.8%	6.4%	1.6%	100.0%
Column Percent	3.2%	3.8%	3.4%	3.1%	3.4%	4.6%	3.8%	4.2%	3.0%	1.4%	3.5%

(continued)

Table 10.8.1 (Continued)

ALL RESPONDENTS
by GEOGRAPHIC REGION and WORK FUNCTION
1997 Survey of ACS Members

	GEOGRAPHIC REGION										Total	
	Pacific		Mount	WN	WS	EN	ES	Middle	S At1	New		No
	Row	Column	Central	Central	Central	Central	At1	At1	England	Answer		
Forensics	10	3	2	5	20	2	16	10	4	4	76	
Row Percent	13.2%	3.9%	2.6%	6.6%	26.3%	2.6%	21.1%	13.2%	5.3%	5.3%	100.0%	
Column Percent	.8%	.6%	.3%	.6%	1.0%	.5%	.7%	.6%	.5%	.9%	.7%	
Other lab analysis	46	25	28	38	90	16	68	55	23	6	395	
Row Percent	11.6%	6.3%	7.1%	9.6%	22.8%	4.1%	17.2%	13.9%	5.8%	1.5%	100.0%	
Column Percent	3.5%	4.9%	4.0%	4.9%	4.7%	4.1%	3.1%	3.3%	2.9%	1.4%	3.7%	
Teaching	41	17	27	28	54	24	62	65	23	8	349	
Row Percent	11.7%	4.9%	7.7%	8.0%	15.5%	6.9%	17.8%	18.6%	6.6%	2.3%	100.0%	
Column Percent	3.2%	3.4%	3.8%	3.6%	2.8%	6.2%	2.8%	3.9%	2.9%	1.8%	3.2%	
Chem info services	10	2	1	0	33	3	22	20	1	1	93	
Row Percent	10.8%	2.2%	1.1%	.0%	35.5%	3.2%	23.7%	21.5%	1.1%	1.1%	100.0%	
Column Percent	.8%	.4%	.1%	.0%	1.7%	.8%	1.0%	1.2%	.1%	.2%	.9%	
Computers	12	0	2	6	8	3	11	9	6	1	58	
Row Percent	20.7%	.0%	3.4%	10.3%	13.8%	5.2%	19.0%	15.5%	10.3%	1.7%	100.0%	
Column Percent	.9%	.0%	.3%	.8%	.4%	.8%	.5%	.5%	.7%	.2%	.5%	
Patents	11	1	6	7	12	0	16	15	3	1	72	
Row Percent	15.3%	1.4%	8.3%	9.7%	16.7%	.0%	22.2%	20.8%	4.2%	1.4%	100.0%	
Column Percent	.8%	.2%	.9%	.9%	.6%	.0%	.7%	.9%	.4%	.2%	.7%	
Consulting	59	19	10	16	33	6	47	49	24	2	265	
Row Percent	22.3%	7.2%	3.8%	6.0%	12.5%	2.3%	17.7%	18.5%	9.1%	.8%	100.0%	
Column Percent	4.5%	3.8%	1.4%	2.0%	1.7%	1.5%	2.1%	2.9%	3.0%	.5%	2.5%	

(continued)

Table 10.9.1

ALL RESPONDENTS
by GEOGRAPHIC REGION and WORK SPECIALTY
1997 Survey of ACS Members

WORK SPECIALTY	GEOGRAPHIC REGION										Total
	Pacific	Mount	WN	WS	EN	ES	Middle	S	At1	New	
Chemical			Central	Central	Central	Central	At1			England	Answer
Row Percent	33	28	24	67	87	25	113	87	41	20	525
Column Percent	6.3%	5.3%	4.6%	12.8%	16.6%	4.8%	21.5%	16.6%	7.8%	3.8%	100.0%
	2.5%	5.5%	3.4%	8.6%	4.5%	6.4%	5.1%	5.2%	5.1%	4.6%	4.9%
Biochemistry	64	24	39	50	95	20	96	102	54	27	571
Row Percent	11.2%	4.2%	6.8%	8.8%	16.6%	3.5%	16.8%	17.9%	9.5%	4.7%	100.0%
Column Percent	4.9%	4.7%	5.6%	6.4%	4.9%	5.1%	4.3%	6.1%	6.7%	6.2%	5.3%
Biotechnology	72	9	18	6	35	2	43	37	39	5	266
Row Percent	27.1%	3.4%	6.8%	2.3%	13.2%	.8%	16.2%	13.9%	14.7%	1.9%	100.0%
Column Percent	5.5%	1.8%	2.6%	.8%	1.8%	.5%	1.9%	2.2%	4.8%	1.2%	2.5%
General chemistry	69	22	40	45	102	25	87	91	39	18	538
Row Percent	12.8%	4.1%	7.4%	8.4%	19.0%	4.6%	16.2%	16.9%	7.2%	3.3%	100.0%
Column Percent	5.3%	4.3%	5.7%	5.8%	5.3%	6.4%	3.9%	5.4%	4.8%	4.1%	5.0%
Agricultural	38	10	27	6	53	6	35	61	11	16	263
chemistry	14.4%	3.8%	10.3%	2.3%	20.2%	2.3%	13.3%	23.2%	4.2%	6.1%	100.0%
Row Percent	2.9%	2.0%	3.8%	.8%	2.7%	1.5%	1.6%	3.6%	1.4%	3.7%	2.4%
Column Percent											
Analytical	210	101	126	152	335	91	386	250	113	58	1822
chemistry	11.5%	5.5%	6.9%	8.3%	18.4%	5.0%	21.2%	13.7%	6.2%	3.2%	100.0%
Row Percent	16.2%	20.0%	17.9%	19.4%	17.3%	23.3%	17.4%	14.9%	14.0%	13.4%	17.0%
Column Percent											(continued)

Table 10.9.1 (Continued)

WORK SPECIALTY	ALL RESPONDENTS by GEOGRAPHIC REGION and WORK SPECIALTY 1997 Survey of ACS Members										Total
	GEOGRAPHIC REGION										
	Pacific	Mount	MN	WS	EN	ES	Middle	S Atl	New	No	
		Central	Central	Central	Central	Atl		England	Answer		
Clinical chemistry	21	3	9	10	22	2	19	11	8	5	110
Row Percent	19.1%	2.7%	8.2%	9.1%	20.0%	1.8%	17.3%	10.0%	7.3%	4.5%	100.0%
Column Percent	1.6%	.6%	1.3%	1.3%	1.1%	.5%	.9%	.7%	1.0%	1.2%	1.0%
Environmental chemistry	128	52	45	61	121	31	109	135	38	15	735
Row Percent	17.4%	7.1%	6.1%	8.3%	16.5%	4.2%	14.8%	18.4%	5.2%	2.0%	100.0%
Column Percent	9.9%	10.3%	6.4%	7.8%	6.3%	7.9%	4.9%	8.1%	4.7%	3.5%	6.8%
Inorganic chemistry	36	24	28	41	68	15	70	43	13	12	350
Row Percent	10.3%	6.9%	8.0%	11.7%	19.4%	4.3%	20.0%	12.3%	3.7%	3.4%	100.0%
Column Percent	2.8%	4.7%	4.0%	5.2%	3.5%	3.8%	3.2%	2.6%	1.6%	2.8%	3.3%
Materials science	59	26	25	17	75	10	68	56	32	10	378
Row Percent	15.6%	6.9%	6.6%	4.5%	19.8%	2.6%	18.0%	14.8%	8.5%	2.6%	100.0%
Column Percent	4.5%	5.1%	3.6%	2.2%	3.9%	2.6%	3.1%	3.3%	4.0%	2.3%	3.5%
Medicinal-Pharmaceutical	106	28	26	15	124	7	204	121	71	23	725
Row Percent	14.6%	3.9%	3.6%	2.1%	17.1%	1.0%	28.1%	16.7%	9.8%	3.2%	100.0%
Column Percent	8.2%	5.5%	3.7%	1.9%	6.4%	1.8%	9.2%	7.2%	8.8%	5.3%	6.8%
Organic chemistry	115	46	96	97	238	53	329	191	109	40	1314
Row Percent	8.8%	3.5%	7.3%	7.4%	18.1%	4.0%	25.0%	14.5%	8.3%	3.0%	100.0%
Column Percent	8.9%	9.1%	13.7%	12.4%	12.3%	13.6%	14.8%	11.4%	13.5%	9.2%	12.2%
Physical chemistry	80	32	35	40	90	19	103	79	53	19	550
Row Percent	14.5%	5.8%	6.4%	7.3%	16.4%	3.5%	18.7%	14.4%	9.6%	3.5%	100.0%
Column Percent	6.2%	6.3%	5.0%	5.1%	4.7%	4.9%	4.6%	4.7%	6.6%	4.4%	5.1%

(continued)

Table 10.9.1 (Continued)

ALL RESPONDENTS
by GEOGRAPHIC REGION and WORK SPECIALTY
1997 Survey of ACS Members

WORK SPECIALTY	GEOGRAPHIC REGION							Total			
	Pacific	Mt	WS	EN	ES	Middle	S At1				
	Central	Central	Central	Central	Central	At1		New England	No Answer		
Polymer chemistry	62	23	59	61	199	28	207	139	79	34	891
Row Percent	7.0%	2.6%	6.6%	6.8%	22.3%	3.1%	23.2%	15.6%	8.9%	3.8%	100.0%
Column Percent	4.8%	4.5%	8.4%	7.8%	10.3%	7.2%	9.3%	8.3%	9.8%	7.8%	8.3%
Other chemical science	16	17	15	16	45	11	42	33	12	9	216
Row Percent	7.4%	7.9%	6.9%	7.4%	20.8%	5.1%	19.4%	15.3%	5.6%	4.2%	100.0%
Column Percent	1.2%	3.4%	2.1%	2.0%	2.3%	2.8%	1.9%	2.0%	1.5%	2.1%	2.0%
Business Administration	26	12	13	9	52	8	59	38	12	19	248
Row Percent	10.5%	4.8%	5.2%	3.6%	21.0%	3.2%	23.8%	15.3%	4.8%	7.7%	100.0%
Column Percent	2.0%	2.4%	1.9%	1.2%	2.7%	2.1%	2.7%	2.3%	1.5%	4.4%	2.3%
Computer science	21	4	4	7	19	2	24	17	12	4	114
Row Percent	18.4%	3.5%	3.5%	6.1%	16.7%	1.8%	21.1%	14.9%	10.5%	3.5%	100.0%
Column Percent	1.6%	.8%	.6%	.9%	1.0%	.5%	1.1%	1.0%	1.5%	.9%	1.1%
Law	11	3	5	7	13	0	16	15	4	2	76
Row Percent	14.5%	3.9%	6.6%	9.2%	17.1%	.0%	21.1%	19.7%	5.3%	2.6%	100.0%
Column Percent	.8%	.6%	.7%	.9%	.7%	.0%	.7%	.9%	.5%	.5%	.7%
Other nonchemistry	79	24	38	36	93	18	106	103	39	26	562
Row Percent	14.1%	4.3%	6.8%	6.4%	16.5%	3.2%	18.9%	18.3%	6.9%	4.6%	100.0%
Column Percent	6.1%	4.7%	5.4%	4.6%	4.8%	4.6%	4.8%	6.2%	4.8%	6.0%	5.2%
No Answer	53	18	30	39	66	17	100	64	27	72	486
Row Percent	10.9%	3.7%	6.2%	8.0%	13.6%	3.5%	20.6%	13.2%	5.6%	14.8%	100.0%
Column Percent	4.1%	3.6%	4.3%	5.0%	3.4%	4.4%	4.5%	3.8%	3.3%	16.6%	4.5%
Total	1299	506	702	782	1932	390	2216	1673	806	434	10740
Row Percent	12.1%	4.7%	6.5%	7.3%	18.0%	3.6%	20.6%	15.6%	7.5%	4.0%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table 10.10.1

ALL RESPONDENTS
by GEOGRAPHIC REGION and SEX
1997 Survey of ACS Members

GEOGRAPHIC REGION	SEX			Total
	Men	Women	No Answer	
Pacific	975	314	10	1299
Row Percent	75.1%	24.2%	.8%	100.0%
Column Percent	12.0%	13.9%	2.6%	12.1%
Mountain	399	102	5	506
Row Percent	78.9%	20.2%	1.0%	100.0%
Column Percent	4.9%	4.5%	1.3%	4.7%
West North Central	564	130	8	702
Row Percent	80.3%	18.5%	1.1%	100.0%
Column Percent	7.0%	5.8%	2.1%	6.5%
West South Central	628	147	7	782
Row Percent	80.3%	18.8%	.9%	100.0%
Column Percent	7.7%	6.5%	1.8%	7.3%
East North Central	1489	421	22	1932
Row Percent	77.1%	21.8%	1.1%	100.0%
Column Percent	18.4%	18.7%	5.7%	18.0%
East South Central	299	84	7	390
Row Percent	76.7%	21.5%	1.8%	100.0%
Column Percent	3.7%	3.7%	1.8%	3.6%
Middle Atlantic	1749	438	29	2216
Row Percent	78.9%	19.8%	1.3%	100.0%
Column Percent	21.6%	19.4%	7.6%	20.6%
South Atlantic	1286	373	14	1673
Row Percent	76.9%	22.3%	.8%	100.0%
Column Percent	15.9%	16.6%	3.7%	15.6%
New England	604	193	9	806
Row Percent	74.9%	23.9%	1.1%	100.0%
Column Percent	7.5%	8.6%	2.3%	7.5%
No Answer	112	50	272	434
Row Percent	25.8%	11.5%	62.7%	100.0%
Column Percent	1.4%	2.2%	71.0%	4.0%
Total	8105	2252	383	10740
Row Percent	75.5%	21.0%	3.6%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%



1997 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 use pens with ink that soak through the paper.
- Make solid marks that fill the oval completely.
- Make no stray marks on this form.

INCORRECT MARKS



CORRECT MARK



EDUCATION AND EMPLOYMENT STATUS

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

Less than Bachelor's	(1)
Bachelor's	(2)
Master's	(3)
Doctorate	(4)
Other (specify)	(5)

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

Bachelor's		Master's		Doctorate	
19		19		19	
(0)	(0)	(0)	(0)	(0)	(0)
(1)	(1)	(1)	(1)	(1)	(1)
(2)	(2)	(2)	(2)	(2)	(2)
(3)	(3)	(3)	(3)	(3)	(3)
(4)	(4)	(4)	(4)	(4)	(4)
(5)	(5)	(5)	(5)	(5)	(5)
(6)	(6)	(6)	(6)	(6)	(6)
(7)	(7)	(7)	(7)	(7)	(7)
(8)	(8)	(8)	(8)	(8)	(8)
(9)	(9)	(9)	(9)	(9)	(9)

3. 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	(01)	(01)
Biochemistry	(02)	(02)
Biotechnology	(03)	(03)
General chemistry	(04)	(04)
Agricultural/food chemistry	(05)	(05)
Analytical chemistry	(06)	(06)
Clinical chemistry	(07)	(07)
Environmental chemistry	(08)	(08)
Inorganic chemistry	(09)	(09)
Materials science	(10)	(10)
Medicinal/pharmaceutical chemistry	(11)	(11)
Organic chemistry	(12)	(12)
Physical chemistry	(13)	(13)
Polymer chemistry	(14)	(14)
Other chemical science	(15)	(15)
Business administration	(16)	(16)
Computer science	(17)	(17)
Law	(18)	(18)
Other non-chemistry	(19)	(19)

4. Please enter your primary employment status as of March 1, 1997. Choose the one category that best fits your situation. (Fill in one)

Employed full-time (35 hours or more per week)	(1)	Go to 5
Employed part-time	(2)	Skip to 7
Postdoctoral or other fellowship	(3)	Skip to 7
Not employed but actively seeking employment	(4)	Skip to 6
Not employed and NOT seeking employment	(5)	Skip to 7
Fully retired	(6)	Stop Here and Return Survey

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

Permanent	(1)
Temporary	(2)
Agency temp	(3)
Fixed term contract	(4)

} Skip to 7

6. If you were NOT EMPLOYED BUT ACTIVELY SEEKING EMPLOYMENT on March 1, 1997 how long had you been unemployed? (Fill in one)

- (1) Less than 1 month
- (2) 1 to 3 months
- (3) 4 to 6 months
- (4) 7 to 12 months
- (5) More than 1 year

7. Regardless of your current status, was there any period when you were NOT EMPLOYED AND ACTIVELY SEEKING EMPLOYMENT in calendar year 1996? (Fill in one)

- (1) Yes
- (2) No

IF YES, how many total months were you NOT EMPLOYED AND ACTIVELY SEEKING EMPLOYMENT during calendar year 1996? (Fill in one)

- (1) Less than 1 month
- (2) 1 to 3 months
- (3) 4 to 6 months
- (4) 7 to 11 months
- (5) 12 months

8. If you are CURRENTLY EMPLOYED, how long have you worked for your current employer? (Fill in one)

- (1) Less than 1 year
- (2) 1 to 4 years
- (3) 5 to 9 years
- (4) 10 to 19 years
- (5) 20 or more years

9. What are the first three digits of the ZIP CODE of your current or most recent place of employment?

(0)	(0)	(0)
(1)	(1)	(1)
(2)	(2)	(2)
(3)	(3)	(3)
(4)	(4)	(4)
(5)	(5)	(5)
(6)	(6)	(6)
(7)	(7)	(7)
(8)	(8)	(8)
(9)	(9)	(9)



15393

QUESTIONS ABOUT YOURSELF

1. Your sex: (1) Male (2) Female

2. Your age at last birthday before March 1, 1997:

AGE →

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

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

- U.S. native (1)
- U.S. naturalized (2)
- U.S. permanent resident visa (3)
- Other visa (4)

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

- American Indian or Alaskan Native (1)
- Asian or Pacific Islander (2)
- Black (3)
- White (4)
- Other (5)

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

- (1) Yes (2) No

IF YOU ARE EMPLOYED, EITHER FULL-TIME OR PART-TIME, 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, 1997.
(DO NOT INCLUDE bonuses, earnings from second job, overtime work, summer teaching, or other supplemental earnings.) If on a 9 or 10 month contract, report the 9 or 10 month salary rather than an annualized salary.

EXAMPLE:

\$	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8	8	8
	9	9	9	9	9	9	9	9	9	9

per year

\$	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	3	3	3
	4	4	4	4	4	4	4	4	4	4
	5	5	5	5	5	5	5	5	5	5
	6	6	6	6	6	6	6	6	6	6
	7	7	7	7	7	7	7	7	7	7
	8	8	8	8	8	8	8	8	8	8
	9	9	9	9	9	9	9	9	9	9

per year

2. **TOTAL PROFESSIONAL INCOME** during calendar year 1996. (INCLUDE consulting fees, base annual salary, bonuses, earnings from second job, overtime, summer teaching, and other supplemental earnings.)

\$

0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9

per year

3. What was your **SALARY LAST YEAR**? Please indicate your base annual salary from principal job as of March 1, 1996. (DO NOT INCLUDE bonuses, earnings from second job, overtime work, summer teaching, or other supplemental earnings.) If on a 9 or 10 month contract, report the 9 or 10 month salary rather than an annualized salary.

\$

0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9

per year

4. Were you eligible for a bonus during calendar 1996?

- (1) Yes (2) No (3) Not applicable

5. Did you receive a bonus during calendar 1996?

- (1) Yes (2) No (3) Not applicable

IF YES, please indicate amount

\$

0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9

6. 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 (2) 10 - 19 hrs (3) 20 - 39 hrs (4) 40 - 99 hrs (5) 100 or more hrs

7. If you do any **CONSULTING**, what is your approximate **HOURLY RATE**?

\$

0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

 per hour

8. What was your **TOTAL CONSULTING INCOME** during calendar year 1996?

\$

0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

 per year

CURRENT OR MOST RECENT 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: (Fill in one)

College or university (excluding medical schools) where the highest degree offered in chemistry or chemical engineering is:

- Associate's ①
- Bachelor's ②
- Master's ③
- Doctorate ④

- University medical or professional school ⑤
- High school ⑥

2. Your employer is a: (Fill in one)

- ① Public institution
- ② Private institution

3. Your academic rank: (Fill in one)

- Full professor ①
- Associate professor ②
- Assistant professor ③
- Visiting or adjunct professor, instructor, lecturer ④
- Non-teaching research appointment ⑤
- Other non-faculty ⑥
- My institution does not have ranks ⑦
- Secondary Teacher ⑧

4. Have you been granted tenure? (Fill in one)

- Yes 107 ①
- Not tenured, in tenure track ②
- Not tenured, not in tenure track ③
- Not Applicable ④

5. Your basic contract is for a period of: (Fill in one)

- ① 9 or 10 months
- ② 11 or 12 months

6. About what fraction of your total working time in your contract period 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% 76-100%
- Administration 1-25% 26-33% 34-50% 51-66% 67-75% 76-100%
- Other 1-25% 26-33% 34-50% 51-66% 67-75% 76-100%

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

1. Current (or most recent) principal employer:

- Self-employed ①
- Non-manufacturing:
 - Analytical service laboratory ②
 - Contract research firms ③
 - Utility company ④
 - Other non-manufacturing ⑤

Manufacturing company primarily involved in:

- Aerospace ⑥
- Basic chemicals ⑦
- Specialty chemicals ⑧
- Agricultural chemicals ⑨
- Biochemical products ⑩
- Coatings, paints, inks ⑪
- Electronics ⑫
- Food ⑬
- Instruments ⑭
- Medical devices/diagnostic products ⑮
- Metals, minerals ⑯
- Paper ⑰
- Personal care ⑱
- Petroleum/natural gas ⑲
- Pharmaceuticals ⑳
- Plastics ㉑
- Rubber ㉒
- Soaps, detergents, surfactants ㉓
- Other manufactures ㉔

Government:

- Federal (civilian) ㉕
- State or local ㉖
- Military ㉗

Other nonacademic employer:

- Hospital, independent laboratory ㉘
- Non-profit organization, other research institution ㉙
- Other employment ㉚

2. Employer's approximate number of employees
(total for the whole organization):

108

- Less than 500 ①
- 500 to 2,499 ②
- 2,500 to 9,999 ③
- 10,000 to 24,999 ④
- 25,000 or more ⑤

3. Check the ONE work function that best describes your job:

Research and Development:

- Management or administration of R&D 01
- Basic research 02
- Applied research, development, design 03
- General management or administration (other than R&D) 04
- Marketing, sales, purchasing, technical service, economic evaluation 05
- Production, quality control 06
- Health and safety/regulatory affairs 07
- Forensic analysis 08
- Other laboratory analysis 09
- Teaching 10
- Chemistry information services 11
- Computer programming, analysis, design 12
- Patents, licensing, trademarks 13
- Consulting 14
- Other (specify) 15

4. Is your job classified as a:

- Chemical or engineering technician ①
- Postdoctoral position ②
- Scientist or engineer ③
- Manager or administrator ④
- Other (specify) ⑤

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

- Professionals
 0 1-2 3-9 10-14 15-29 30-49 50-99 100 or more
- Technicians
 0 1-2 3-9 10-14 15-29 30-49 50-99 100 or more
- Others, including production workers
 0 1-2 3-9 10-14 15-29 30-49 50-99 100 or more

Comments:

THANK YOU FOR YOUR PARTICIPATION.
PLEASE RETURN THIS QUESTIONNAIRE IN THE ENVELOPE PROVIDED

FORM 2905 (7/96) 0987654321

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EMPLOYMENT DATA AND INFORMATION RESOURCES

Employment Data: ACS, Department of Career Services

- Annual ACS Comprehensive Salary and Employment Status Survey
..... available fall
- Starting Salary Survey of New Graduates in Chemistry and Chemical Engineering
..... available spring
- All Member Survey
..... available every five years
- Women Chemists Report
..... available every five years

Journals, Magazines, and Newspapers

- *Chemical and Engineering News*
Salaries - annual in July
Employment Outlook - annual in October
Facts and Figures for the Chemical Industry - annual in June
Salaries and for New Graduates - annual in march
Outcomes for S&E PHDs - annual in summer
- *Chemical Week*
- *Today's Chemist at Work*

OTHER ACS CAREER PUBLICATIONS

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

For ACS Career Services Catalog, please call or write:

ACS Career Services
American Chemical Society
1155 Sixteenth Street, NW
Washington, DC 20036
phone: 800/227-5558
email: career@acs.org
website: <http://www.acs.org>

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 an 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 the World Wide Web pages of major companies are also included. The Job Bank is available in 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.

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