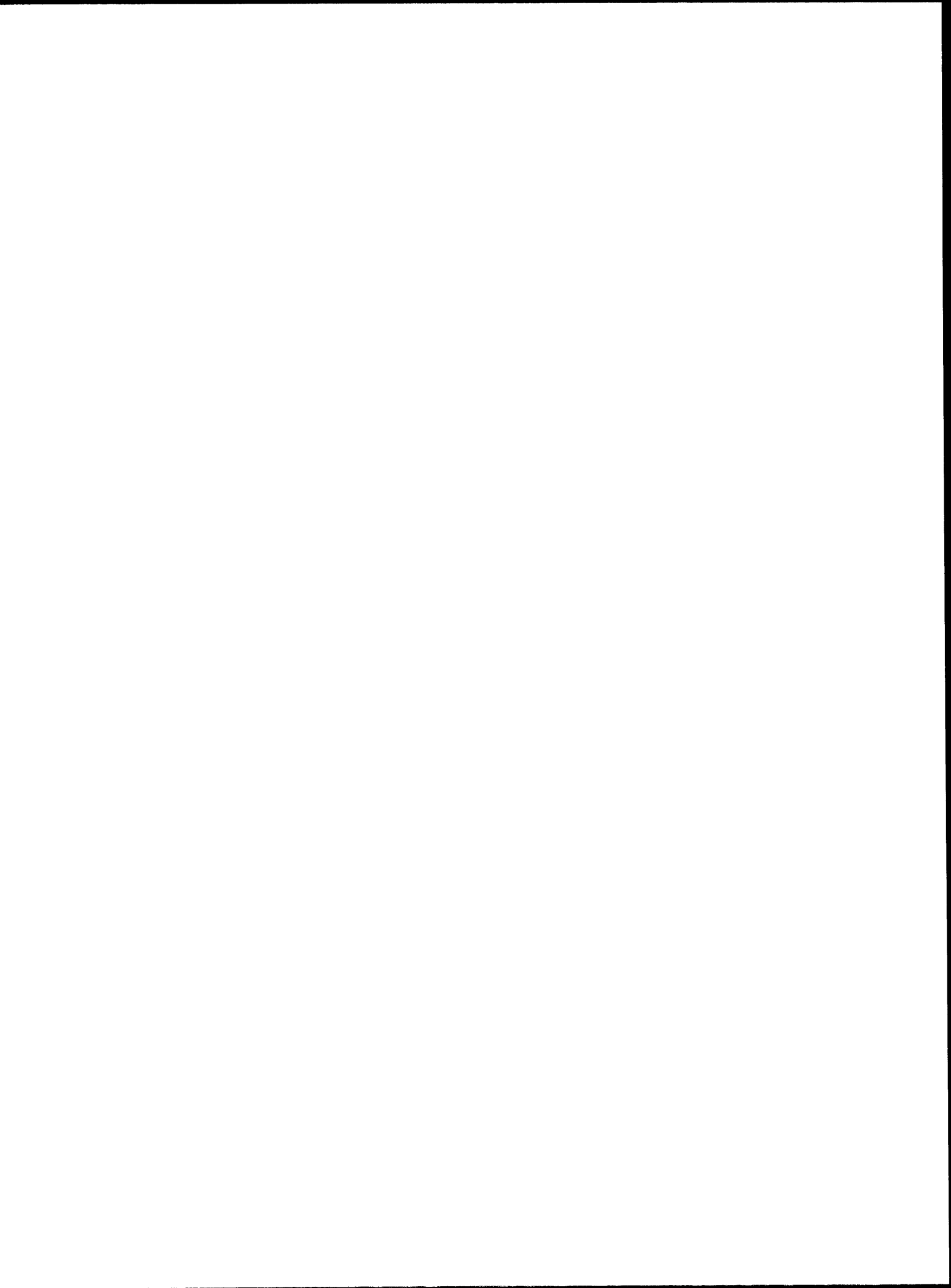




1976 SURVEY REPORT

STARTING SALARIES AND EMPLOYMENT STATUS OF
CHEMISTRY AND CHEMICAL ENGINEERING GRADUATES

Office of Manpower Studies
American Chemical Society
Washington, D.C.



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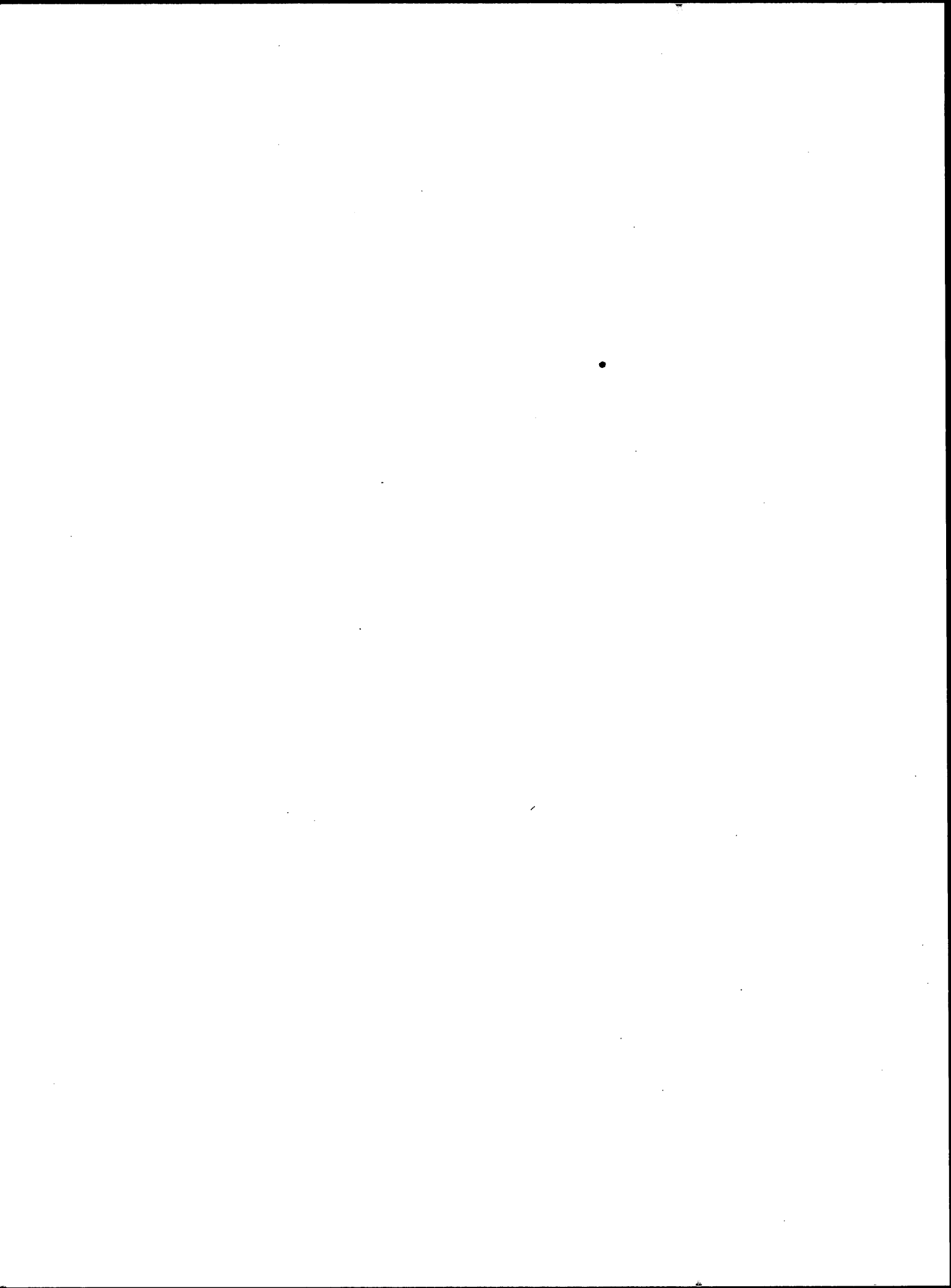


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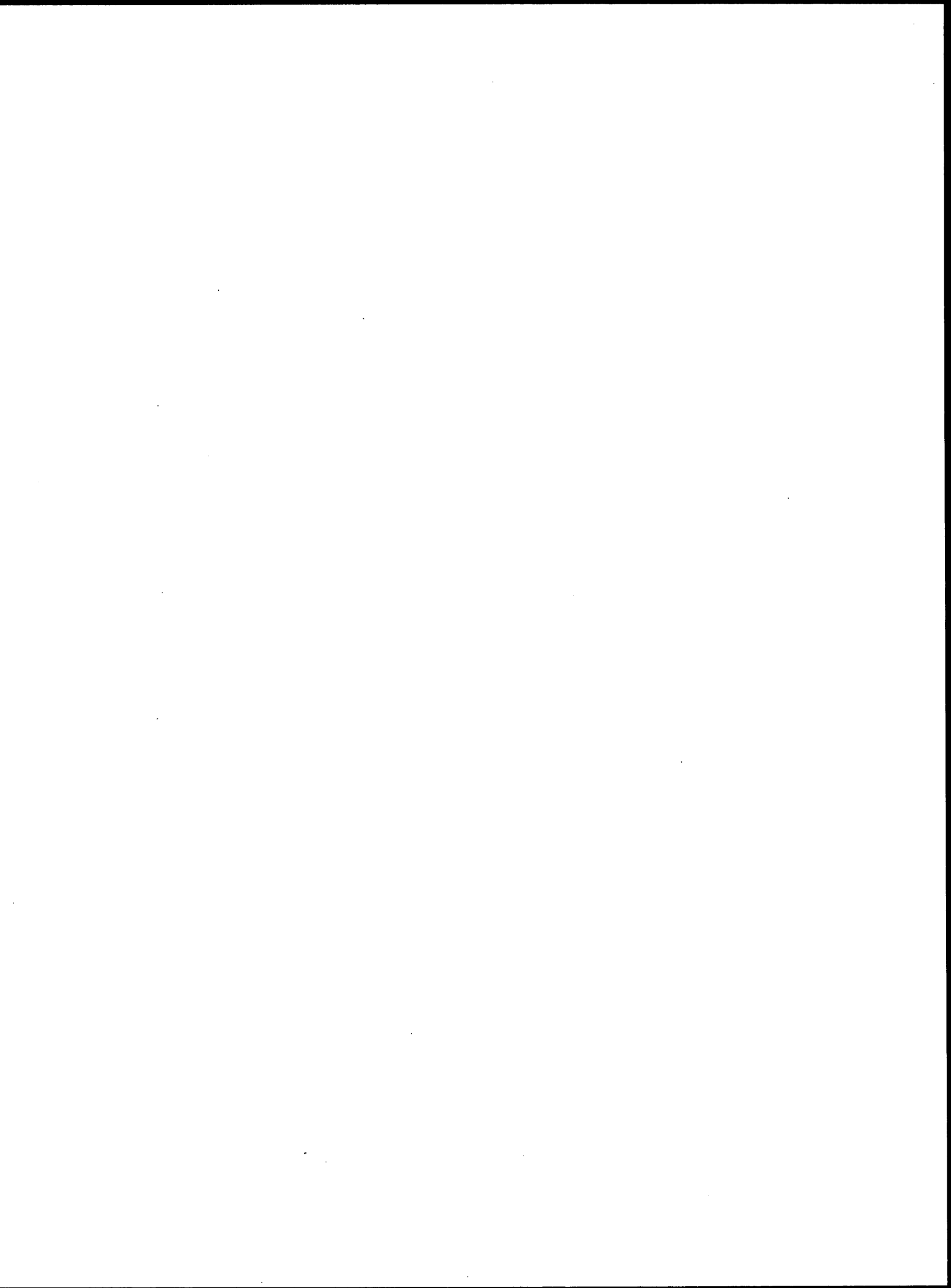
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SUMMARY OF FINDINGS

SALARIES

Mean starting salaries for chemists have gone up from 1975 at all three degree levels, but only the bachelor's level salaries have increased by more than the consumer price index, which went up by 5.6% from August 1975 to August 1976. Table 1 indicates that the increases were:

for the B.S., 9.6%, or in constant dollars 4.0%,
for the M.S., 5.2%, or in constant dollars -0.4%,
for the Ph.D., 5.1%, or in constant dollars -0.5%.

Chemical engineers enjoy much higher salaries than do chemists, but this year the percent gains and even the absolute gains were smaller for chemical engineers than for chemists at the bachelor's and Ph.D. levels. Table 2 shows that increases in starting salaries for chemical engineers were:

for the B.S., 6.3%, or in constant dollars 0.7%,
for the M.S., 7.1%, or in constant dollars 1.5%,
for the Ph.D., 0.3%, or in constant dollars -5.3%.

For master's and Ph.D. level chemists, the availability of information on specialties allows a comparison which is free of effects of year-to-year shifts in specialties of new graduates. This procedure gives an increase for M.S. chemists of 6.3%, from \$11,589 to \$12,320. For Ph.D. chemists the increase was 5.2%, from \$16,280 to \$17,119.

EMPLOYMENT

The increases in starting salaries seem to indicate a relative improvement in the chemistry job market as compared with the one for chemical engineers. It may be surprising, therefore, to note that Table 3 shows an improvement in the employment rate for chemical engineers at the bachelor's and master's levels, and a deterioration in the employment rate for chemists at the master's and Ph.D. levels.

TABLE 1

STARTING YEARLY SALARIES OF INEXPERIENCED FULL-TIME EMPLOYED CHEMISTRY GRADUATES

by Degree: Summer of 1975 and Summer of 1976

Salaries	D E G R E E L E V E L					
	Bachelor's		Master's		Ph.D.	
	1975	1976	1975	1976	1975	1976
90th Percentile	\$12,000	\$13,620	\$14,000	\$15,300	\$19,500	\$20,100
75th Percentile	11,400	12,500	13,200	14,300	18,400	19,200
50th Percentile	10,000	10,800	12,000	12,400	17,000	18,300
25th Percentile	8,500	9,280	10,000	10,000	15,000	15,600
10th Percentile	7,500	8,200	9,150	9,000	11,800	11,600
Mean	9,911	10,860	11,715	12,320	16,287	17,119
Count	399	436	84	90	148	150
Std. Dev.	1,843	2,205	2,099	2,602	2,809	3,250

TABLE 2

STARTING YEARLY SALARIES OF INEXPERIENCED FULL-TIME EMPLOYED CHEMICAL ENGINEERING GRADUATES

by Degree: Summer of 1975 and Summer of 1976

Salaries	D E G R E E L E V E L					
	Bachelor's		Master's		Ph.D.	
	1975	1976	1975	1976	1975	1976
90th Percentile	\$15,300	\$16,200	\$16,800	\$17,500	\$21,000	\$21,600
75th Percentile	15,000	15,700	16,200	17,040	21,000	21,000
50th Percentile	14,400	15,420	15,600	16,620	20,000	20,700
25th Percentile	13,900	15,000	14,500	16,000	19,000	19,800
10th Percentile	13,000	14,000	13,800	15,600	18,000	16,800
Mean	14,325	15,225	15,342	16,426	19,877	19,931
Count	405	524	83	90	48	42
Std. Dev.	1,039	1,025	1,417	1,250	1,633	2,084

TABLE 3

EMPLOYMENT STATUS OF CHEMISTRY AND CHEMICAL ENGINEERING GRADUATES BY DEGREE

Summer of 1975 and Summer of 1976

Major and Employment Status	D E G R E E L E V E L					
	Bachelor's		Master's		Ph.D.	
	1975	1976	1975	1976	1975	1976
CHEMISTRY						
Full-time employed:						
In chemistry or chemical engineering	22.6%	19.7%	40.8%	42.9%	46.0%	43.7%
Outside chemistry or chemical engineering	6.9	7.9	8.0	5.7	2.1	2.4
Postdoctoral/grad. asst./other fellowship	31.2	31.6	36.6	34.1	47.5	48.7
Military/Peace Corps, etc.	2.7	1.6	2.1	1.0	1.5	0.4
Unable to obtain full-time employment	8.5	7.3	4.5	5.4	2.1	3.4
Not seeking full-time employment	28.0	31.8	8.0	10.9	0.8	1.4
Total	100.0	100.0	100.0	100.0	100.0	100.0
Number of responses	2,249	2,970	377	387	474	503
CHEMICAL ENGINEERING						
Full-time employed:						
In chemistry or chemical engineering	65.4%	71.4%	73.8%	64.1%	91.3%	85.9%
Outside chemistry or chemical engineering	5.7	4.1	3.6	3.2	2.2	0.0
Postdoctoral/grad. asst./other fellowship	17.0	15.4	13.7	25.5	5.4	12.9
Military/Peace Corps, etc.	1.1	1.4	0.6	0.9	0.0	0.0
Unable to obtain full-time employment	5.3	3.2	2.4	1.4	1.1	1.2
Not seeking full-time employment	5.7	4.5	6.0	5.0	0.0	0.0
Total	100.0	100.0	100.0	100.0	100.0	100.0
Number of responses	742	910	168	220	92	85

TABLE A-1

POSTGRADUATION STATUS OF CHEMISTS
BY HIGHEST DEGREE EARNED AND SEX

EMPLOYMENT STATUS	BACHELORS		MASTERS		PHD		ROW TOTAL
	IMEN	WCMEN	IMEN	WCMEN	IMEN	WCMEN	
FULLTIME IN CHEM	406 17.9	179 25.3	123 41.1	43 48.9	195 43.8	25 43.1	220 43.7
FULLTIME NONCHEM	174 7.7	61 8.6	20 6.7	2 2.3	11 2.5	1 1.7	12 2.4
POSTDOC, GRADASST	734 32.4	205 29.0	105 35.1	27 30.7	216 48.5	29 50.0	245 48.7
MILITARY, VISTA	41 1.8	7 1.0	4 1.3	0 0.0	2 0.4	0 0.0	2 0.4
SEEKING EMPLOYMT	157 6.9	61 8.6	14 4.7	7 8.0	17 3.8	0 0.0	17 3.4
NOT SEEKING EMP	751 33.2	154 27.4	33 11.0	9 10.2	4 0.9	3 5.2	7 1.4
COLUMN TOTAL	2263 100.0	707 100.0	299 100.0	88 100.0	445 100.0	58 100.0	503 100.0
PLANS FOR FURTHER STUDIES THIS FALL							
NO RESPONSE	15 0.7	6 0.8	2 0.7	0 0.0	7 1.6	0 0.0	7 1.4
HAVE PLANS	1709 75.3	485 68.5	179 59.9	42 47.7	72 16.1	6 10.3	78 15.5
HAVE NO PLANS	545 24.0	217 30.6	118 39.5	46 52.3	367 82.3	52 89.7	419 83.1
COLUMN TOTAL	2269 100.0	708 100.0	299 100.0	88 100.0	446 100.0	58 100.0	504 100.0

TABLE A-2

PLANS FOR FURTHER STUDIES

OF UNEMPLOYED CHEMISTS

BY HIGHEST DEGREE EARNED AND SEX

PLANS FOR FURTHER STUDIES THIS FALL	SEEKING EMPLOYMT			NCT SEEKING EMPLOYMNT		
	IMEN	WOMEN	ROW TOTAL	IMEN	WCMEN	ROW TOTAL
BACHELORS						
NO RESPONSE	# 5 % 3.2	# 3 % 4.9	8 3.7	# 2 % 0.3	# 0 % 0.0	2 0.2
HAVE PLANS	# 35 % 22.3	# 9 % 14.8	44 20.2	# 700 % 93.2	# 176 % 90.7	876 92.7
HAVE NO PLANS	# 117 % 74.5	# 49 % 80.3	166 76.1	# 49 % 6.5	# 18 % 9.3	67 7.1
COLUMN TOTAL	157 100.0	61 100.0	218 100.0	751 100.0	194 100.0	945 100.0
MASTERS						
NO RESPONSE	# 1 % 7.1	# 0 % 0.0	1 4.8	# 1 % 3.0	# 0 % 0.0	1 2.4
HAVE PLANS	# 4 % 28.6	# 1 % 14.3	5 23.8	# 29 % 87.9	# 8 % 88.9	37 88.1
HAVE NO PLANS	# 9 % 64.3	# 6 % 85.7	15 71.4	# 3 % 9.1	# 1 % 11.1	4 9.5
COLUMN TOTAL	14 100.0	7 100.0	21 100.0	33 100.0	9 100.0	42 100.0
PHD						
HAVE PLANS	# 1 % 5.9	# 0 % 0.0	1 5.9	# 4 % 100.0	# 1 % 33.3	5 71.4
HAVE NO PLANS	# 16 % 94.1	# 0 % 0.0	16 94.1	# 0 % 0.0	# 2 % 66.7	2 28.6
COLUMN TOTAL	17 100.0	0 0.0	17 100.0	4 100.0	3 100.0	7 100.0

TABLE A-3

POSTGRADUATION STATUS OF CHEMICAL ENGINEERS
BY HIGHEST DEGREE EARNED AND SEX

EMPLOYMENT STATUS	BACHELORS		MASTERS		PHD		ROW TOTAL
	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	
FULLTIME IN CHEM #	568	132	5	70	3	73	73
FULLTIME IN CHEM %	69.6	63.8	69.2	85.4	100.0	85.9	85.9
FULLTIME NONCHEM #	35	5	2	0	0	0	0
FULLTIME NONCHEM %	4.3	2.4	15.4	0.0	0.0	0.0	0.0
POSTDOC, GRADASST #	133	54	2	11	0	11	11
POSTDOC, GRADASST %	16.3	26.1	15.4	13.4	0.0	12.9	12.9
MILITARY, VISTA #	12	2	0	0	0	0	0
MILITARY, VISTA %	1.5	1.0	0.0	0.0	0.0	0.0	0.0
SEEKING EMPLOYMT #	28	3	0	1	0	1	1
SEEKING EMPLOYMT %	3.4	1.4	0.0	1.2	0.0	1.2	1.2
NOT SEEKING EMPLOY #	40	11	0	0	0	0	0
NOT SEEKING EMPLOY %	4.9	5.3	0.0	0.0	0.0	0.0	0.0
COLUMN TOTAL	816	207	13	82	3	85	85
	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PLANS FOR FURTHER STUDIES THIS FALL							
NC RESPONSE #	6	1	0	1	0	1	1
NC RESPONSE %	0.7	0.5	0.0	0.5	0.0	1.2	1.2
HAVE PLANS #	348	92	6	58	0	5	5
HAVE PLANS %	42.6	44.4	46.2	6.1	0.0	5.9	5.9
HAVE NO PLANS #	463	114	7	76	3	79	79
HAVE NO PLANS %	56.7	55.1	53.8	92.7	100.0	92.9	92.9
COLUMN TOTAL	817	207	13	82	3	85	85
	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE A-4

PLANS FOR FURTHER STUDIES
OF UNEMPLOYED CHEMICAL ENGINEERS
BY HIGHEST DEGREE EARNED

PLANS FOR FURTHER STUDIES THIS FALL		SEEKING EMPLOYMENT	NOT SEEKING EMPLOYMENT
BACHELORS			
NC	RESPONSE	# 2 % 6.9	# 0 % 0.0
HAVE	PLANS	2 6.9	38 92.7
HAVE NO	PLANS	25 86.2	3 7.3
COLUMN TOTAL		29 100.0	41 100.0
MASTERS			
HAVE	PLANS	# 1 % 33.3	# 9 % 81.8
HAVE NO	PLANS	2 66.7	2 18.2
COLUMN TOTAL		3 100.0	11 100.0
PHD			
HAVE NO	PLANS	# 1 % 100.0	# 0 % 0.0
COLUMN TOTAL		1 100.0	0 0.0

TABLE A-5

POSTGRADUATION STATUS OF CHEMISTS

BY HIGHEST DEGREE EARNED AND CITIZENSHIP

EMPLOYMENT STATUS	BACHELORS			MASTERS			PHD		
	U. S. CITIZEN	RESIDENT VISA	OTHER VISA	U. S. CITIZEN	RESIDENT VISA	OTHER VISA	U. S. CITIZEN	RESIDENT VISA	OTHER VISA
FULLTIME IN CHEM	578 19.8	4 19.0	0 0.0	152 43.7	6 85.7	7 23.3	201 45.7	11 29.7	7 29.2
FULLTIME NONCHEM	232 7.9	2 9.5	0 0.0	21 6.0	0 0.0	1 3.3	10 2.3	1 2.7	1 4.2
PCSTDOC, GRADASST	930 31.8	4 19.0	3 20.0	113 32.5	1 14.3	17 56.7	207 47.0	22 59.5	15 62.5
MILITARY, VISTA	47 1.6	0 0.0	0 0.0	3 0.9	0 0.0	1 3.3	2 0.5	0 0.0	0 0.0
SEEKING EMPLOYMT	208 7.1	5 23.8	3 20.0	21 6.0	0 0.0	0 0.0	14 3.2	2 5.4	1 4.2
NOT SEEKING EMP	928 31.7	6 28.6	9 60.0	38 10.9	0 0.0	4 13.3	6 1.4	1 2.7	0 0.0
COLUMN TOTAL	2923 100.0	21 100.0	15 100.0	348 100.0	7 100.0	30 100.0	440 100.0	37 100.0	24 100.0
PLANS FOR FURTHER STUDIES THIS FALL									
NC RESPONSE	21 0.7	0 0.0	0 0.0	2 0.6	0 0.0	0 0.0	5 1.1	1 2.6	0 0.0
HAVE PLANS	2161 73.8	13 61.9	15 100.0	196 56.3	2 28.6	22 73.3	70 15.9	6 15.8	2 8.3
HAVE NO PLANS	748 25.5	8 38.1	0 0.0	150 43.1	5 71.4	8 26.7	365 83.0	31 81.6	22 91.7
COLUMN TOTAL	2930 100.0	21 100.0	15 100.0	348 100.0	7 100.0	30 100.0	440 100.0	38 100.0	24 100.0

TABLE A-6

POSTGRADUATION STATUS OF CHEMICAL ENGINEERS
BY HIGHEST DEGREE EARNED AND CITIZENSHIP

EMPLOYMENT STATUS	BACHELORS			MASTERS			PHD		
	U. S. CITIZEN #	RESIDENT VISA	OTHER VISA	U. S. CITIZEN	RESIDENT VISA	OTHER VISA	U. S. CITIZEN	RESIDENT VISA	OTHER VISA
FULLTIME IN CHEM	639 72.1	10 83.3	1 8.3	118 68.2	8 88.9	14 38.9	47 94.0	14 77.8	11 68.8
FULLTIME NONCHEM	35 4.0	1 8.3	1 8.3	6 3.5	1 11.1	0 0.0	0 0.0	0 0.0	0 0.0
POSTDOC, GRADASST	133 15.0	1 8.3	6 50.0	37 21.4	0 0.0	18 50.0	3 6.0	3 16.7	5 31.3
MILITARY, VISTA	13 1.5	0 0.0	0 0.0	2 1.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
SEEKING EMPLOYMT	28 3.2	0 0.0	1 8.3	2 1.2	0 0.0	1 2.8	0 0.0	1 5.6	0 0.0
NOT SEEKING EMPL	38 4.3	0 0.0	3 25.0	8 4.6	0 0.0	3 8.3	0 0.0	0 0.0	0 0.0
COLUMN TOTAL	886 100.0	12 100.0	12 100.0	173 100.0	9 100.0	36 100.0	50 100.0	18 100.0	16 100.0
PLANS FOR FURTHER STUDIES THIS FALL									
NC RESPONSE	7 0.8	0 0.0	0 0.0	1 0.6	0 0.0	0 0.0	0 0.0	0 0.0	1 6.3
HAVE PLANS	363 40.9	9 75.0	12 100.0	69 39.9	3 33.3	25 69.4	1 2.0	1 5.6	3 18.8
HAVE NO PLANS	517 58.3	3 25.0	0 0.0	103 59.5	6 66.7	11 30.6	49 98.0	17 94.4	12 75.0
COLUMN TOTAL	887 100.0	12 100.0	12 100.0	173 100.0	9 100.0	36 100.0	50 100.0	18 100.0	16 100.0

TABLE A-7

POSTGRADUATION STATUS
OF MINORITY CHEMISTS
BY HIGHEST DEGREE EARNED

EMPLOYMENT STATUS	BACHLORS	MASTERS	PHD	ROW TOTAL
FULLTIME IN CHEM	27 18.4	13 32.5	20 40.0	60 25.3
FULLTIME NONCHEM	10 6.8	3 7.5	3 6.0	16 6.8
POSTDOC, GRADASST	38 25.9	13 32.5	25 50.0	76 32.1
MILITARY, VISTA	2 1.4	1 2.5	0 0.0	3 1.3
SEEKING EMPLOYMT	14 9.5	3 7.5	1 2.0	18 7.6
NCT SEEKING EMPL	56 38.1	7 17.5	1 2.0	64 27.0
COLUMN TOTAL	147 100.0	40 100.0	50 100.0	237 100.0

PLANS FOR FURTHER STUDIES THIS FALL

NO RESPONSE	0 0.0	0 0.0	1 2.0	1 0.4
HAVE PLANS	111 75.0	28 70.0	9 18.0	148 62.2
HAVE NO PLANS	37 25.0	12 30.0	40 80.0	89 37.4
COLUMN TOTAL	148 100.0	40 100.0	50 100.0	238 100.0

TABLE A-8

POSTGRADUATION STATUS
OF MINORITY CHEMICAL ENGINEERS
BY HIGHEST DEGREE EARNED

EMPLOYMENT STATUS	BACHLORS	MASTERS	PHD	RCW TOTAL
FULLTIME IN CHEM	26 65.0	11 52.4	11 73.3	48 63.2
FULLTIME NONCHEM	3 7.5	1 4.8	0 0.0	4 5.3
POSTDOC, GRADASST	5 12.5	9 42.9	3 20.0	17 22.4
MILITARY, VISTA	2 5.0	0 0.0	0 0.0	2 2.6
SEEKING EMPLOYMT	2 5.0	0 0.0	1 6.7	3 3.9
NCT SEEKING EMPL	2 5.0	0 0.0	0 0.0	2 2.6
COLUMN TOTAL	40 100.0	21 100.0	15 100.0	76 100.0

PLANS FOR FURTHER STUDIES THIS FALL

NO RESPONSE	1 2.5	0 0.0	0 0.0	1 1.3
HAVE PLANS	18 45.0	12 57.1	1 6.7	31 40.8
HAVE NO PLANS	21 52.5	9 42.9	14 93.3	44 57.9
COLUMN TOTAL	40 100.0	21 100.0	15 100.0	76 100.0

TABLE A-9

POSTGRADUATION STATUS OF B.S. CHEMISTS
BY CERTIFICATION STATUS

B. S. CHEMISTS			
EMPLOYMENT STATUS	CERTIFD. ¹	NON-CERTIFD.	ROW TOTAL
	#	#	
FULLTIME IN CHEM	299 21.7	286 17.9	585 19.7
FULLTIME NONCHEM	70 5.1	165 10.3	235 7.9
POSTDOC, GRADASST	588 42.7	352 22.1	940 31.6
MILITARY, VISTA	34 2.5	14 0.9	48 1.6
SEEKING EMPLOYMT	104 7.6	114 7.1	218 7.3
NOT SEEKING EMPL	282 20.5	664 41.6	946 31.8
COLUMN TOTAL	1377 100.0	1595 100.0	2972 100.0

PLANS FOR FURTHER STUDIES THIS FALL

NO RESPONSE	#	11	10	21
	%	0.8	0.6	0.7
HAVE PLANS	#	985	1211	2196
	%	71.5	75.6	73.7
HAVE NO PLANS	#	381	381	762
	%	27.7	23.8	25.6
COLUMN TOTAL	#	1377	1602	2979
	%	100.0	100.0	100.0

¹A "certified bachelor" is one who has been certified by the chemistry department chairman to the American Chemical Society, as having successfully completed the curriculum in chemistry as approved by the ACS Committee on Professional Training, and is, therefore, eligible to become a member of ACS.

TABLE A-10

POSTGRADUATION STATUS OF M.S. AND PH.D. CHEMISTS

BY FIELD OF HIGHEST DEGREE

EMPLOYMENT STATUS	FIELD OF HIGHEST DEGREE										ROW TOTAL
	CHEMISTRY, GENERAL	BIOCHEMISTRY	ANALYTICAL	INORGANIC	ORGANIC	PHARMA, MED, CLN	PHYSICAL, THEORET	POLYMER, MACROMOL	CHEMISTRY OTHER		
MASTERS	27	12	32	17	47	5	12	3	11		166
FULLTIME IN CHEM %	40.9	37.5	58.2	37.0	45.2	62.5	24.0	42.9	57.9		42.9
FULLTIME NONCHEM	3.0	6.3	3.6	10.9	3.8	12.5	8.0	14.3	5.3		5.7
POSTDOC, GRADASST	26	11	10	19	40	0	20	3	3		132
MILITARY, VISTA	0.0	0.0	3.6	0.0	1.0	0.0	2.0	0.0	0.0		4.0
SEEKING EMPLOYMT	6.1	3.1	10.9	2.2	1.0	25.0	6.0	0.0	15.8		5.4
NOT SEEKING EMP	10.6	18.8	5.5	8.7	11	0.0	10	0.0	5.3		42
COLUMN TOTAL	66	32	55	46	104	8	50	7	19		387
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
PHD	4	8	32	42	67	1	48	9	9		220
FULLTIME IN CHEM %	40.0	15.5	62.7	51.5	45.3	100.0	36.1	90.0	32.1		43.7
FULLTIME NONCHEM	0.0	2.4	0.0	1.2	0.0	0.0	6.8	0.0	3.6		12
POSTDOC, GRADASST	5	32	16	33	76	0	67	1	15		245
MILITARY, VISTA	0.0	0.0	0.0	1.2	0.0	0.0	0.8	0.0	0.0		48.7
SEEKING EMPLOYMT	10.0	0.0	3.9	4.9	2.0	0.0	4.5	0.0	3.6		17
NOT SEEKING EMP	0.0	0.0	2.0	0.0	1.4	0.0	1.5	0.0	2		7
COLUMN TOTAL	10	41	51	81	148	1	133	10	28		503
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0

WHO PLAN FURTHER STUDIES IN FALL, 1976

BY HIGHEST DEGREE EARNED AND SEX

FIELD OF ADVANCED FURTHER STUDIES	BACHELORS		MASTERS		PHD	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
	#	%	ROW TOTAL	ROW TOTAL	ROW TOTAL	ROW TOTAL
CHEMISTRY	626	36.6	803	150	38	38
OTH PHY SCI, MATH	29	1.7	38	5	0	0
CHEMICAL ENGRING	58	3.4	71	6	3	3
OTHER ENGRING	19	1.1	27	3	2	2
BIOCHEMISTRY	136	8.0	190	18	5	6
OTH LIFE SCIENCE	98	5.7	137	6	2	2
MEDICINE	535	31.3	664	12	6	8
DENTISTRY	90	5.3	100	1	0	0
PHARMACY	14	0.8	22	1	1	2
BUSINESS, MGMT	52	3.0	69	13	13	15
LAW	18	1.1	23	1	1	1
SCC SCI, HUMNTIES	13	0.8	23	1	0	0
OTHER	21	1.2	27	4	1	1
COLUMN TOTAL	1709	100.0	2194	221	72	78
			100.0	100.0	100.0	100.0

TABLE A-12

FIELD OF ADVANCED FURTHER STUDIES OF CHEMICAL ENGINEERS

WHO PLAN FURTHER STUDIES IN FALL, 1976

BY HIGHEST DEGREE EARNED AND SEX

16

FIELD OF ADVANCED FURTHER STUDIES	BACHELORS		MASTERS		PHD	
	MEN	WCWEN	MEN	WCWEN	MEN	WCWEN
CHEMISTRY	4 1.1	2 5.7	0 0.0	1 16.7	0 0.0	0 0.0
OTH PHY SCI, MATH	1 0.3	0 0.0	0 0.0	0 0.0	0 0.0	1 20.0
CHEMICAL ENGRING	204 58.6	20 57.1	68 73.9	3 50.0	71 72.4	1 20.0
OTHER ENGRING	15 4.3	5 14.3	6 6.5	2 33.3	8 8.2	1 20.0
BIOCHEMISTRY	2 0.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTH LIFE SCIENCE	1 0.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
MEDICINE	15 4.3	0 0.0	2 2.2	0 0.0	2 2.0	0 0.0
PHARMACY	1 0.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BUSINESS, MGMT	94 27.0	7 20.0	15 16.3	0 0.0	15 15.3	2 40.0
LAW	6 1.7	1 2.5	1 1.1	0 0.0	1 1.0	0 0.0
SCC SCI, HUMNTIES	3 0.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	2 0.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
COLUMN TOTAL	348 100.0	35 100.0	92 100.0	6 100.0	98 100.0	5 100.0

TABLE A-13

FIELD OF ADVANCED FURTHER STUDIES OF B.S. CHEMISTS
WHO PLAN FURTHER STUDIES IN FALL; 1976
BY CERTIFICATION STATUS

FIELD OF ADVANCED FURTHER STUDIES	B. S. CHEMISTS		ROW TOTAL
	CERTIFD. ¹	NON- CERTIFD.	
	#		
CHEMISTRY	560	243	803
	56.9	20.1	36.6
OTH PHY SCI, MATH	19	20	39
	1.9	1.7	1.8
CHEMICAL ENGRING	35	36	71
	3.6	3.0	3.2
OTHER ENGRING	8	19	27
	0.8	1.6	1.2
BIOCHEMISTRY	82	108	190
	8.3	8.9	8.7
OTH LIFE SCIENCE	38	99	137
	3.9	8.2	6.2
MEDICINE	174	491	665
	17.7	40.5	30.3
DENTISTRY	13	87	100
	1.3	7.2	4.6
PHARMACY	7	15	22
	0.7	1.2	1.0
BUSINESS, MGMT	26	43	69
	2.6	3.6	3.1
LAW	10	13	23
	1.0	1.1	1.0
SOC SCI, HUMNTIES	8	15	23
	0.8	1.2	1.0
OTHER	5	22	27
	0.5	1.8	1.2
COLUMN TOTAL	985	1211	2196
	100.0	100.0	100.0

¹See note on Table A-9.

NUMBER OF FIRM JOB OFFERS TO FULL-TIME EMPLOYED CHEMISTS
BY HIGHEST DEGREE EARNED AND SEX

NUMBER OF OFFERS	BACHELORS		MASTERS		PHD	
	IMEN	WOMEN	IMEN	WCMEN	IMEN	WOMEN
INEXPERIENCED						
1	173 59.0	77 53.1	41 62.1	13 56.5	69 52.7	7 36.8
2	78 26.6	38 26.2	14 21.2	4 17.4	34 26.0	6 31.6
3	24 8.2	16 11.0	6 9.1	5 21.7	15 11.5	4 21.1
4	10 3.4	7 4.8	3 3.0	1 4.3	7 5.3	2 10.5
5	6 2.0	7 4.8	3 3.0	0 0.0	2 1.5	0 0.0
6 OR 7	2 0.7	0 0.0	1 1.5	0 0.0	3 2.3	0 0.0
10 OR MORE	0 0.0	0 0.0	0 0.0	0 0.0	1 0.8	0 0.0
TOTAL	293 100.0	145 100.0	66 100.0	23 100.0	131 100.0	19 100.0
MEAN	1.7	1.8	1.7	1.7	1.9	2.1
EXPERIENCED						
1	58 55.8	11 42.3	31 60.8	9 47.4	32 50.0	3 50.0
2	24 23.1	8 30.8	7 13.7	3 15.8	14 21.9	1 16.7
3	12 11.5	5 19.2	10 19.6	2 10.5	11 17.2	1 16.7
4	5 4.8	1 3.8	3 3.9	3 15.8	4 6.3	0 0.0
5	3 2.9	1 3.8	0 0.0	0 0.0	2 3.1	0 0.0
6 OR 7	2 1.9	0 0.0	0 0.0	2 10.5	1 1.6	1 16.7
10 OR MORE	0 0.0	0 0.0	1 2.0	0 0.0	0 0.0	0 0.0
TOTAL	104 100.0	26 100.0	51 100.0	15 100.0	64 100.0	6 100.0
MEAN	1.8	2.0	1.9	2.4	2.0	2.3

TABLE A-15 NUMBER OF FIRM OFFERS TO FULL-TIME EMPLOYED CHEMICAL ENGINEERS

BY HIGHEST DEGREE EARNED AND SEX

NUMBER OF OFFERS	BACHELORS		MASTERS		PHD		ROW TOTAL	ROW TOTAL	ROW TOTAL
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN			
INEXPERIENCED	#	%	#	%	#	%	#	%	#
1	114	24.9	10	14.7	0	0.0	1	100.0	16
2	107	23.4	10	14.7	1	25.0	0	0.0	10
3	83	18.1	12	17.6	0	0.0	0	0.0	7
4	49	10.7	6	8.8	0	0.0	0	0.0	4
5	40	8.7	6	8.8	2	50.0	0	0.0	3
6 OR 7	38	8.3	7	10.3	1	25.0	0	0.0	1
8 OR 9	14	3.1	6	8.8	0	0.0	0	0.0	0
10 OR MORE	13	2.8	11	16.2	0	0.0	0	0.0	1
TOTAL MEAN	458	100.0	68	100.0	4	100.0	1	100.0	42
		3.3		5.3		4.5		1.0	
EXPERIENCED	#	%	#	%	#	%	#	%	#
1	19	18.6	1	7.1	3	60.0	0	0.0	10
2	22	21.6	1	7.1	1	20.0	0	0.0	4
3	12	11.8	2	14.3	0	0.0	0	0.0	7
4	9	8.8	3	21.4	0	0.0	0	0.0	3
5	13	12.7	1	7.1	0	0.0	1	50.0	6.5
6 OR 7	12	11.8	3	21.4	0	0.0	1	50.0	4
8 OR 9	7	6.9	0	0.0	0	0.0	0	0.0	1
10 OR MORE	8	7.8	3	21.4	1	20.0	0	0.0	3.2
TOTAL MEAN	102	100.0	14	100.0	5	100.0	2	100.0	31
		4.2		5.7		6.0		6.0	

AVERAGE NUMBER OF FIRM JOB OFFERS

TO FULL-TIME EMPLOYED MINORITY CHEMISTS AND CHEMICAL ENGINEERS
BY HIGHEST DEGREE EARNED AND SEX

HIGHEST DEGREE EARNED	CHEMISTS			CHEM ENGINEERS		
	MEN	WOMEN	ROW TOTAL	MEN	WOMEN	ROW TOTAL
INEXPERIENCED						
BACHLORS	2.0	2.7	2.2	3.4	1.3	3.1
MEAN	1.2	6	1.8	1.4	3	1.7
COUNT	1.0	1.6	1.3	2.7	0.6	2.5
STD DEV	0.0	1.6	1.6	1.9	0.0	1.9
MASTERS	0.0	0.9	0.9	0.9	0.0	0.9
MEAN	1.4	1.3	1.4	2.7	0.0	2.7
COUNT	1.7	3	1.0	1.5	0.0	1.5
STD DEV	0.8	0.6	0.7	2.8	0.0	2.7
PHD	1.8	1.9	1.9	3.0	1.3	3.3
MEAN	1.9	1.7	3.6	2.1	0.6	2.7
COUNT	1.0	1.2	1.1			3.0
STD DEV						2.0
EXPERIENCED						
BACHLORS	1.4	1.0	1.4	6.0	7.0	6.2
MEAN	1.7	1	1.8	5	1	6
COUNT	1.1	0.0	1.1	4.8	0.0	4.4
STD DEV	2.0	0.0	2.0	1.0	1.0	1.0
MASTERS	2.0	0.0	2.0	1.0	0.0	2.0
MEAN	5	0	5	0.0	0.0	0.0
COUNT	1.0	0.0	1.0	3.0	0.0	3.0
STD DEV	2.4	1.0	2.3	4	0	4
PHD	1.7	0.0	1.7	1.4	0.0	1.4
MEAN	2.0	1.0	1.9	4.3	4.0	4.3
COUNT	2.1	2.0	2.3	10	2	12
STD DEV	1.4	0.0	1.4	3.8	4.2	3.7

TABLE B-1

STARTING YEARLY SALARIES
OF INEXPERIENCED FULL-TIME CHEMISTS AND CHEMICAL ENGINEERS
BY HIGHEST DEGREE EARNED AND SEX

HIGHEST DEGREE EARNED		MEN	WOMEN	RCW TOTAL
CHEMISTS	MEDIAN	10800.	10900.	10800
	MEAN	10828.	10925.	10860.
	COUNT	291	145	436
	STD DEV	2229.	2163.	2205.
MASTERS		12500.	12000.	12400
		12452.	11935.	12320.
		67	23	90
		2607.	2606.	2602.
PHD		18300.	18000.	18300
		17280.	16008.	17119.
		131	19	150
		3131.	3891.	3250.
COLUMN	MEAN	12779.	11565.	12443.
	COUNT	489	187	676
	STD DEV	3769.	2871.	3583.
CHEM ENGINEERS	MEDIAN	15360.	15600.	15420
	MEAN	15180.	15515.	15223.
	COUNT	455	68	523
	STD DEV	1060.	719.	1028.
MASTERS		16620.	16100.	16620
		16425.	16450.	16426.
		86	4	90
		1261.	1139.	1250.
PHD		20700.	20700.	20700
		19912.	20700.	19931.
		41	1	42
		2107.	0.	2084.
COLUMN	MEAN	15697.	15638.	15690.
	COUNT	582	73	655
	STD DEV	1720.	971.	1653.

TABLE B-2

STARTING YEARLY SALARIES
OF INEXPERIENCED FULL-TIME CHEMISTS AND CHEMICAL ENGINEERS
BY EMPLOYER AND HIGHEST DEGREE EARNED

HIGHEST DEGREE EARNED	MEDIAN MEAN COUNT STD DEV	EMPLOYER										ROW TOTAL
		TOTAL	PRIVATE INDUSTRY MANUFACTURING	NONMANUFACTURING	COLLEGE, UNIVERSITY	HIGH SCH, OTHR SC	FEDERAL GOVERNMT	STATE, LOCL GOV	HOSPITAL, IND LAB	NONPRFT RES INST		
CHEMISTS BACHLORS	11700.	11700.	10800.	8400.	8700.	9000.	9800.	9500.	8400.	10860.	10860. 436 2205.	
	11533.	11588.	11275.	8315.	8968.	9991.	10030.	9249.	8750.			
	313	260.	53	29	24	15	15	36	4			
MASTERS	2040.	2063.	1926.	1313.	1822.	1321.	1292.	1632.	700.	12320.	12320. 90 2602.	
	14000.	14100.	12000.	10500.	9000.	11046.	10922.	9713.	9024.			
	13628.	13862.	12335.	10731.	8869.	11922.	11241.	10182.	9075.			
PHD	2180.	2126.	2145.	2331.	829.	2282.	1427.	1360.	109.	17100.	17100. 149 3252.	
	18780.	18900.	18300.	12000.	0.	17000.	0.	0.	17200.			
	18734.	18957.	17617.	12236.	0.	17627.	0.	0.	18950.			
COLUMN	1569.	1180.	2578.	2018.	0.	2083.	0.	0.	2475.	12432.	12432. 675 3574.	
	13340.	13455.	12766.	10522.	8949.	12621.	10232.	9418.	11125.			
	467	389	78	76	29	32	18	44	9			
	3522.	3554.	3324.	2563.	1681.	3719.	1353.	1613.	4545.			
CHEM ENGINEERS BACHLORS	15480.	15500.	15300.	0.	0.	12886.	0.	0.	14700.	15227. 523 1026.		
	15249.	15275.	15063.	0.	0.	13348.	0.	0.	15150.			
	515	452	63	0.	0.	6	0.	0.	2			
MASTERS	993.	973.	1125.	0.	0.	1971.	0.	0.	636.	16426.	16426. 60 1250.	
	16800.	16800.	16320.	16500.	0.	15000.	0.	0.	16000.			
	16428.	16485.	16273.	17250.	0.	15000.	0.	0.	16000.			
PHD	1257.	1358.	933.	1061.	0.	0.	0.	0.	0.	19931.	19931. 42 2084.	
	21000.	21000.	20700.	16600.	0.	20200.	0.	0.	16800.			
	20772.	20828.	20622.	16373.	0.	20200.	0.	0.	16800.			
COLUMN	892.	971.	661.	2269.	0.	0.	0.	0.	0.	15694.	15694. 655 1651.	
	15697.	15664.	15883.	16568.	0.	14411.	0.	0.	15775.			
	634	535	95	8	0.	8	0.	0.	4			
	1622.	1563.	1527.	2037.	0.	2929.	0.	0.	873.			

TABLE B-3

STARTING YEARLY SALARIES
OF INEXPERIENCED FULL-TIME CHEMISTS
BY EMPLOYER, HIGHEST DEGREE EARNED, AND SEX

HIGHEST DEGREE EARNED	TOTAL	EMPLOYER							HOSPITAL, IND LAB	STATE, LOCL GOV	NONPRFT RES INST	ROW TOTAL
		PRIVATE INDUSTRY MANUFAC-TURING	PRIVATE INDUSTRY NONMANU-FACTURING	COLLEGE, UNIVRSITY	HIGH SCH, OTHR SC	FEDERAL GOVERNMT	STATE, LOCL GOV	HOSPITAL, IND LAB				
MEN												
BACHLORS	11500. 11415. 2115 2119	11500. 11424. 1176 2131	10800. 11370. 36 2092	8400. 8446. 16 1315	8800. 8953. 15 1957	9000. 9918. 11 1336	9604. 9900. 10 1248	9500. 9167. 21 1757	9000. 8867. 3 808	10828. 291 2229		
MASTERS	14100. 13903. 37 2076	14220. 14061. 33 2119	12000. 12595. 4 1124	10600. 11127. 9 2397	9000. 9025. 4 858	11046. 11699. 7 2369	10922. 11241. 3 1427	9600. 9833. 6 1044	9024. 9024. 1 0	12452. 67 2607		
PHD	18900. 18712. 91 1637	18900. 18955. 15 1213	18300. 17480. 15 2719	12000. 12469. 29 2075	0. 0. 0. 0.	17000. 17627. 9 2083	0. 0. 0. 0.	0. 0. 0. 0.	20700. 20700. 1 0	17259. 130 3134		
COLUMN	13619. 543 3733	13714. 288 3776	13125. 55 3488	11053. 54 2604	8968. 19 1761	12949. 27 3899	10209. 13 1362	9315. 27 1652	11265. 5 5306	12764. 488 3759		
WCMEN												
BACHLORS	12000. 11797. 98 1839	12100. 11948. 81 1866	10600. 11075. 17 1555	8200. 8154. 13 1346	8700. 8992. 9 1684	9000. 10193. 4 1454	10524. 10291. 5 1486	9600. 9364. 15 1492	8400. 8400. 1 0	10925. 145 2163		
MASTERS	14000. 12951. 15 2352	14100. 13269. 11 2131	10000. 12075. 4 3048	8400. 8950. 2 778	8200. 8200. 1 0	13482. 13482. 1 0	0. 0. 0. 0.	9713. 11227. 2 2140	9000. 9100. 2 142	11935. 223 2606		
PHD	18760. 18915. 11 848	18760. 18973. 9 909	18200. 18650. 2 636	11500. 11271. 7 1524	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	17200. 17200. 1 0	16008. 19 3891		
COLUMN	12568. 124 2729	12718. 101 2709	11908. 2778	9219. 22 1960	8913. 10 1607	10851. 5 1936	10291. 5 1486	9583. 17 1618	10950. 4 4181	11565. 187 2871		

TABLE B-4

STARTING YEARLY SALARIES

OF INEXPERIENCED FULL-TIME CHEMICAL ENGINEERS

BY EMPLOYER, HIGHEST DEGREE EARNED, AND SEX

24

HIGHEST DEGREE EARNED	MEDIAN MEAN COUNT STD DEV	PRIVATE INDUSTRY					EMPLOYER COLLEGE, UNIVERSITY	FEDERAL GOVERNMT	NONPRFT RES INST	ROW TOTAL
		TOTAL	MANUFAC-TURING	INDUSTRY	NONMANU-FACTURING	MANUFAC-TURING				
MEN										
BACHLCRS		15360. 15207. 448 1024.	15400. 15237. 394 999.	15200. 14990. 54 1189.	15200. 14990. 54 1189.	0. 0. 0. 0.	12886. 13077. 5 2076.	14700. 14700. 1 0.	15183. 454 1061.	
MASTERS		16800. 16410. 83 1271.	16800. 16463. 60 1382.	16320. 16273. 23 933.	16320. 16273. 23 933.	16500. 17250. 2 1061.	0. 0. 0. 0.	16000. 16000. 1 0.	16425. 86 1261.	
PHD		21000. 20774. 32 906.	21000. 20834. 23 992.	20700. 20622. 9 661.	20700. 20622. 9 661.	16600. 16373. 7 2269.	20200. 20200. 1 0.	16800. 16800. 1 0.	19912. 41 2107.	
COLUMN	MEAN COUNT STD DEV	15701. 563 1688.	15661. 477 1621.	15923. 86 2018.	15923. 86 2018.	16568. 9 2037.	14264. 6 3450.	15833. 3 1060.	15700. 581 1720.	
WOMEN										
BACHLCRS		15600. 15527. 66 723.	15600. 15537. 58 755.	15300. 15450. 8 458.	15300. 15450. 8 458.	0. 0. 0. 0.	14700. 14700. 1 0.	15600. 15600. 1 0.	15515. 68 720.	
MASTERS		17200. 16933. 3 737.	17200. 16933. 3 737.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	15000. 15000. 1 0.	0. 0. 0. 0.	16450. 4 1139.	
PHD		20700. 20700. 1 0.	20700. 20700. 1 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	20700. 1 0.	
COLUMN	MEAN COUNT STD DEV	15661. 70 982.	15688. 62 1029.	15450. 8 458.	15450. 8 458.	0. 0. 0. 0.	14850. 2 212.	15600. 1 0.	15638. 73 971.	

TABLE B-5

STARTING YEARLY SALARIES

OF INEXPERIENCED FULL-TIME CHEMISTS AND CHEMICAL ENGINEERS
BY GEOGRAPHIC REGION AND HIGHEST DEGREE EARNED

HIGHEST DEGREE EARNED	CHEMISTS	GEOGRAPHIC REGION							NEW ENGLAND	ROW TOTAL
		PACIFIC	MOUNTAIN	WEST NO. CENTRAL	WEST SO. CENTRAL	EAST NO. CENTRAL	EAST SO. CENTRAL	MIDDLE ATLANTIC		
BACHLCRS	MEDIAN	11000.	11700.	9700.	11000.	11400.	10920.	9800.	10400.	10860.
	MEAN	11288.	10988.	10418.	11077.	11413.	10672.	10184.	10940.	436
MASTERS	COUNT	29	13	36	37	118	114	49	26	2205.
	STD DEV	3131.	2564.	2417.	2325.	2003.	2045.	1800.	1807.	
PHD	MEDIAN	10500.	11200.	12600.	13478.	13500.	12000.	12800.	11500.	12320.
	MEAN	11009.	12082.	12507.	13407.	13164.	12321.	12059.	10850.	90
CGLUMN	COUNT	5	3	3	16	12	26	15	6	2602.
	STD DEV	2730.	1663.	1063.	2590.	3014.	2723.	2375.	2040.	
CHEM ENGINEERS	MEDIAN	14500.	16667.	19100.	19200.	18300.	18200.	18500.	18000.	17119.
	MEAN	15478.	15787.	17977.	18496.	16950.	17761.	17316.	15838.	150
BACHLCRS	COUNT	13	7	25	10	25	20	21	13	3250.
	STD DEV	4313.	4244.	2906.	3282.	3422.	2294.	3321.	3866.	
MASTERS	MEDIAN	12417.	12591.	11704.	12847.	12442.	12763.	12277.	12343.	12443.
	MEAN	3890.	3682.	3633.	3664.	3110.	3758.	3785.	3389.	676
PHD	COUNT	47	23	46	63	155	190	85	45	3583.
	STD DEV									
CHEM ENGINEERS	MEDIAN	15300.	15600.	15000.	15800.	15300.	15300.	15400.	14500.	15223.
	MEAN	15164.	15374.	14735.	15734.	15195.	14941.	15314.	14516.	518
BACHLCRS	COUNT	41	18	30	100	102	100	84	16	1037.
	STD DEV	847.	668.	1233.	875.	829.	1392.	790.	854.	
MASTERS	MEDIAN	16000.	15000.	15700.	16800.	16500.	16800.	16620.	15600.	16426.
	MEAN	16625.	15000.	14933.	17060.	16339.	16473.	16497.	15700.	50
PHD	COUNT	8	1	3	11	23	25	13	4	1250.
	STD DEV	1372.	0.	1686.	560.	1488.	1262.	637.	1270.	
CHEM ENGINEERS	MEDIAN	20200.	21220.	21000.	21000.	20163.	20700.	20700.	13900.	19931.
	MEAN	19914.	21220.	21089.	21089.	18986.	20226.	20183.	13900.	42
BACHLCRS	COUNT	17	1	0	9	10	8	6	1	2085.
	STD DEV	1561.	0.	0.	523.	2126.	2640.	1535.	0.	
MASTERS	MEDIAN	15966.	15648.	14753.	16257.	15670.	15521.	15747.	14712.	15694.
	MEAN	56	20	33	120.	135.	139.	103.	21.	650
PHD	COUNT	1885.	1458.	1248.	1654.	1502.	1952.	1433.	1024.	1661.
	STD DEV									

Note: See page 39 for list of states by geographic regions.

TABLE B-6

STARTING YEARLY SALARIES

OF INEXPERIENCED FULL-TIME B.S. CHEMISTS

BY EMPLOYER AND CERTIFICATION STATUS

EMPLOYER	B. S. CHEMISTS		
	CERTIFD. ¹	NON-CERTIFD.	ROW TOTAL
MANUFAC - TURING	MEDIAN 12000. MEAN 11866. COUNT 148 STD DEV 1986.	11000. 11219. 112 2113.	11588. 260 2063.
NONMANUFACTURING	12000. 11400. 27 1690.	10500. 11146. 26 2170.	11275. 53 1926.
COLLEGE, UNIVRSTY	8200. 8145. 11 1441.	8400. 8419. 18 1260.	8315. 29 1313.
HIGH SCH, OTHR SC	8350. 8190. 5 906.	8700. 9172. 19 1961.	8968. 24 1822.
FEDERAL GOVERNMT	9000. 9695. 6 1329.	9700. 10188. 9 1356.	9991. 15 1321.
STATE, LOCL GOV	9800. 9961. 6 1411.	9756. 10076. 9 1293.	10030. 15 1292.
HOSPITAL, IND LAB	9500. 9473. 11 1112.	9500. 9150. 25 1827.	9249. 36 1632.
NONPRFT RES INST	9000. 9000. 3 600.	8000. 8000. 1 0.	8750. 4 700.
ALL EMPLOYERS	11500. 11261. 217 2145.	10200. 10462. 219 2196.	10860. 436 2205.

¹See note on Table A-9.

TABLE B-7

STARTING YEARLY SALARIES
OF INEXPERIENCED FULL-TIME M.S. AND PH.D. CHEMISTS
BY FIELD OF HIGHEST DEGREE

FIELD OF HIGHEST DEGREE	MASTERS	PHD	ROW TOTAL	
CHEMISTRY, GENERAL	MEDIAN	10500.	20700.	
	MEAN	11990.	21180.	13828.
	COUNT	12	3	15
	STD DEV	2799.	1101.	4561.
BIOCHEMISTRY		9500.	12000.	
		10640.	12700.	11576.
		2680.	3633.	3167.
ANALYTICAL		14300.	18000.	
		14285.	17396.	15880.
		2598.	2701.	3054.
INORGANIC		12000.	16500.	
		11532.	15915.	14904.
		2189.	3789.	3933.
ORGANIC		12000.	18500.	
		12225.	17790.	15638.
		2168.	2545.	3628.
PHARMA, MED, CLN		9713.	0.	
		11357.	0.	11357.
		2324.	0.	2324.
PHYSICAL, THEORET		12800.	18500.	
		12333.	17314.	16585.
		2544.	3382.	3703.
POLYMER, MACROMOL		0.	18000.	
		0.	18550.	18550.
		0.	971.	971.
CHEMISTRY, OTHER		10922.	16500.	
		10658.	16393.	13305.
		2334.	3215.	3986.
ALL FIELDS		12400.	18300.	
		12320.	17119.	15319.
		2602.	3250.	3811.

TABLE B-8
STARTING YEARLY SALARIES
OF INEXPERIENCED FULL-TIME MINORITY CHEMISTS AND CHEMICAL ENGINEERS
BY HIGHEST DEGREE EARNED

HIGHEST DEGREE EARNED		CHEMISTS	CHEM EN- GINEERS	RCW TOTAL
BACHLORS	MEDIAN	9648.	15300.	
	MEAN	10589.	15061.	12761.
	COUNT	18	17	35
	STD DEV	2026.	1439.	2858.
MASTERS	MEDIAN	9500.	16380.	
	MEAN	10419.	16021.	13385.
	COUNT	8	9	17
	STD DEV	2268.	1450.	3407.
PHD	MEDIAN	16000.	20400.	
	MEAN	15220.	19760.	17089.
	COUNT	10	7	17
	STD DEV	3524.	2314.	3781.
COLUMN	MEAN	11838.	16320.	13981.
	COUNT	36	33	69
	STD DEV	3278.	2454.	3667.

TABLE B-9
YEARLY SALARIES
OF POSTDOCTORAL CHEMISTS AND CHEMICAL ENGINEERS
BY EMPLOYER

EMPLOYER		CHEMISTS	CHEM EN- GINEERS
MANUFACTURING	MEDIAN	11000.	0.
	MEAN	12767.	0.
	COUNT	3	0
	STD DEV	5853.	0.
NONMANUFACTURING	MEDIAN	12000.	0.
	MEAN	15500.	0.
	COUNT	2	0
	STD DEV	4950.	0.
COLLEGE, UNIVRSITY	MEDIAN	10000.	10800.
	MEAN	9740.	10532.
	COUNT	196	10
	STD DEV	1388.	1411.
HIGH SCH, OTHR SC	MEDIAN	7500.	0.
	MEAN	7750.	0.
	COUNT	2	0
	STD DEV	354.	0.
FEDERAL GOVERNMT	MEDIAN	12000.	15000.
	MEAN	12741.	15000.
	COUNT	28	1
	STD DEV	2409.	0.
HOSPITAL, IND LAB	MEDIAN	10000.	0.
	MEAN	11413.	0.
	COUNT	8	0
	STD DEV	1713.	0.
NONPRFT RES INST	MEDIAN	10000.	0.
	MEAN	11525.	0.
	COUNT	4	0
	STD DEV	3241.	0.
ALL EMPLOYERS	MEDIAN	10000.	10920.
	MEAN	10235.	10938.
	COUNT	243	11
	STD DEV	2039.	1899.

TABLE C-1

AGE DISTRIBUTION
OF B.S. CHEMISTS AND CHEMICAL ENGINEERS
BY SEX

AGE CATEGORY	CHEMISTS			ROW TOTAL	CHEM ENGINEERS		
	MEN	WOMEN			MEN	WOMEN	ROW TOTAL
19 OR LESS	# 1 % 0.0	0 0.0	1 0.0	0 0.0	0 0.0	0 0.0	0 0.0
20	25 1.1	7 1.0	32 1.1	4 0.5	0 0.0	4 0.4	
21	165 7.3	81 11.5	246 8.3	35 4.3	3 3.2	38 4.2	
22	1372 60.7	456 64.6	1828 61.7	404 49.7	61 65.6	465 51.3	
23	395 17.5	85 12.0	480 16.2	231 28.4	20 21.5	251 27.7	
24	99 4.4	20 2.8	119 4.0	54 6.6	5 5.4	59 6.5	
25	43 1.9	7 1.0	50 1.7	23 2.8	1 1.1	24 2.6	
26	36 1.6	8 1.1	44 1.5	13 1.6	2 2.2	15 1.7	
27	37 1.6	10 1.4	47 1.6	12 1.5	0 0.0	12 1.3	
28	23 1.0	4 0.6	27 0.9	13 1.6	1 1.1	14 1.5	
29	18 0.8	6 0.8	24 0.8	7 0.9	0 0.0	7 0.8	
30-34	31 1.4	8 1.1	39 1.3	13 1.6	0 0.0	13 1.4	
35-39	7 0.3	6 0.8	13 0.4	4 0.5	0 0.0	4 0.4	
40-49	7 0.3	4 0.6	11 0.4	0 0.0	0 0.0	0 0.0	
50-64	0 0.0	4 0.6	4 0.1	0 0.0	0 0.0	0 0.0	
COLUMN TOTAL	2259 100.0	706 100.0	2965 100.0	813 100.0	93 100.0	906 100.0	

TABLE C-2

AGE DISTRIBUTION

OF M.S. CHEMISTS AND CHEMICAL ENGINEERS

BY SEX

AGE CATEGORY	CHEMISTS			CHEM ENGINEERS		
	MEN	WOMEN	ROW TOTAL	MEN	WOMEN	ROW TOTAL
20	1 0.3	0 0.0	1 0.3	1 0.5	0 0.0	1 0.5
21	2 0.7	0 0.0	2 0.5	1 0.5	0 0.0	1 0.5
22	9 3.0	4 4.7	13 3.4	9 4.4	0 0.0	9 4.1
23	10 3.4	6 7.0	16 4.2	20 9.7	2 15.4	22 10.0
24	51 17.2	20 23.3	71 18.5	52 25.2	4 30.8	56 25.6
25	61 20.5	13 15.1	74 19.3	38 18.4	3 23.1	41 18.7
26	37 12.5	10 11.6	47 12.3	32 15.5	3 23.1	35 16.0
27	36 12.1	11 12.8	47 12.3	17 8.3	0 0.0	17 7.8
28	19 6.4	7 8.1	26 6.8	3 1.5	0 0.0	3 1.4
29	26 8.8	2 2.3	28 7.3	12 5.8	0 0.0	12 5.5
30-34	40 13.5	7 8.1	47 12.3	13 6.3	1 7.7	14 6.4
35-39	3 1.0	1 1.2	4 1.0	5 2.4	0 0.0	5 2.3
40-49	2 0.7	4 4.7	6 1.6	3 1.5	0 0.0	3 1.4
50-64	0 0.0	1 1.2	1 0.3	0 0.0	0 0.0	0 0.0
COLUMN TOTAL	297 100.0	86 100.0	383 100.0	206 100.0	13 100.0	219 100.0

TABLE C-3

AGE DISTRIBUTION
OF PH.D. CHEMISTS AND CHEMICAL ENGINEERS
BY SEX

AGE CATEGORY	CHEMISTS			CHEM ENGINEERS		
	MEN	WOMEN	ROW TOTAL	MEN	WOMEN	ROW TOTAL
23	0 0.0	1 1.7	1 0.2	0 0.0	0 0.0	0 0.0
24	3 0.7	0 0.0	3 0.6	0 0.0	0 0.0	0 0.0
25	6 1.4	0 0.0	6 1.2	3 3.7	0 0.0	3 3.5
26	22 5.0	7 12.1	29 5.8	4 4.9	1 33.3	5 5.9
27	77 17.3	19 32.8	96 19.1	11 13.4	0 0.0	11 12.9
28	98 22.1	18 31.0	116 23.1	19 23.2	0 0.0	19 22.4
29	59 13.3	5 8.6	64 12.7	12 14.6	2 66.7	14 16.5
30-34	154 34.7	5 8.6	159 31.7	25 30.5	0 0.0	25 29.4
35-39	21 4.7	1 1.7	22 4.4	6 7.3	0 0.0	6 7.1
40-49	3 0.7	1 1.7	4 0.8	1 1.2	0 0.0	1 1.2
50-64	1 0.2	1 1.7	2 0.4	1 1.2	0 0.0	1 1.2
COLUMN TOTAL	444 100.0	58 100.0	502 100.0	82 100.0	3 100.0	85 100.0

TABLE C-4

AGE DISTRIBUTION

OF POSTDOCTORAL CHEMISTS AND CHEMICAL ENGINEERS

BY SEX

AGE CATEGORY	CHEMISTS			CHEM ENGINEERS	
	MEN	WOMEN	ROW TOTAL	MEN	ROW TOTAL
23	0	1	1	0	0
	0.0	3.4	0.4	0.0	0.0
25	1	0	1	0	0
	0.5	0.0	0.4	0.0	0.0
26	12	3	15	0	0
	5.6	10.3	6.1	0.0	0.0
27	41	11	52	4	4
	19.1	37.9	21.3	36.4	36.4
28	57	9	66	1	1
	26.5	31.0	27.0	9.1	9.1
29	25	1	26	2	2
	11.6	3.4	10.7	18.2	18.2
30-34	70	3	73	4	4
	32.6	10.3	29.9	36.4	36.4
35-39	8	0	8	0	0
	3.7	0.0	3.3	0.0	0.0
40-49	1	0	1	0	0
	0.5	0.0	0.4	0.0	0.0
50-64	0	1	1	0	0
	0.0	3.4	0.4	0.0	0.0
COLUMN TOTAL	215	29	244	11	11
	100.0	100.0	100.0	100.0	100.0

MINORITY CLASSIFICATION OF CHEMISTS AND CHEMICAL ENGINEERS

BY HIGHEST DEGREE EARNED AND SEX

MINORITY CLASSIFICATION	BACHELORS		MASTERS		PHD		ROW TOTAL
	IMEN	WCWEN	IMEN	WCWEN	IMEN	WCWEN	
CHEMISTS							
BLACK- NEGRO	# 33 % 1.5	23 3.3	8 2.7	3 3.6	3 0.7	0	3 0.6
AMERICAN INDIAN	4 0.2	1 0.1	0 0.0	0 0.0	0 0.0	0	0 0.0
CRIENTAL	39 1.8	11 1.6	17 5.8	7 8.3	32 7.3	9 15.5	41 8.3
SPANISH-SURNAMED	25 1.1	12 1.7	3 1.0	2 2.4	5 1.1	1	6 1.2
NCN- MINORITY	2100 95.4	651 93.3	264 90.4	72 85.7	396 90.8	48 82.8	444 89.9
COLUMN TOTAL	2201 100.0	698 100.0	292 100.0	84 100.0	436 100.0	58 100.0	494 100.0
CHEM ENGINEERS							
BLACK- NEGRO	# 9 % 1.1	0 0.0	1 0.5	0 0.0	1 1.2	0	1 1.2
AMERICAN INDIAN	0 0.0	0 0.0	0 0.0	0 0.0	1 1.2	0	1 1.2
CRIENTAL	20 2.5	4 4.3	16 7.9	1 7.7	11 13.6	0	11 13.1
SPANISH-SURNAMED	7 0.9	0 0.0	3 1.5	0 0.0	2 2.5	0	2 2.4
NCN- MINORITY	765 95.5	89 95.7	182 90.1	12 92.3	66 81.5	3 100.0	69 82.1
COLUMN TOTAL	801 100.0	53 100.0	202 100.0	13 100.0	81 100.0	3 100.0	84 100.0

TABLE C-7

MINORITY AND CITIZENSHIP CLASSIFICATION OF CHEMISTS

BY HIGHEST DEGREE EARNED

CITIZENSHIP	MINORITY CLASSIFICATION					ROW TOTAL
	BLACK-NEGRO	AMERICAN INDIAN	ORIENTAL	SPANISH-SURNAMED	NON-MINORITY	
BACHELORS						
U. S. CITIZEN	# 51 % 92.7	5 100.0	42 84.0	34 94.4	2722 99.2	2854 98.8
RESIDENT VISA	1 1.8	0 0.0	3 6.0	2 5.6	15 0.5	21 0.7
OTHER VISA	3 5.5	0 0.0	5 10.0	0 0.0	6 0.2	14 0.5
COLUMN TOTAL	55 100.0	5 100.0	50 100.0	36 100.0	2743 100.0	2889 100.0
MASTERS						
U. S. CITIZEN	# 10 % 100.0	0 0.0	8 33.3	4 80.0	315 94.0	337 90.1
RESIDENT VISA	0 0.0	0 0.0	2 8.3	0 0.0	5 1.5	7 1.9
OTHER VISA	0 0.0	0 0.0	14 58.3	1 20.0	15 4.5	30 8.0
COLUMN TOTAL	10 100.0	0 0.0	24 100.0	5 100.0	335 100.0	374 100.0
PHD						
U. S. CITIZEN	# 3 % 100.0	0 0.0	14 34.1	4 66.7	410 92.8	431 87.6
RESIDENT VISA	0 0.0	0 0.0	19 46.3	1 16.7	17 3.8	37 7.5
OTHER VISA	0 0.0	0 0.0	8 19.5	1 16.7	15 3.4	24 4.9
COLUMN TOTAL	3 100.0	0 0.0	41 100.0	6 100.0	442 100.0	492 100.0

APPENDIX

SCOPE AND METHOD OF SURVEY

OBJECTIVES OF SURVEY

The 1976 survey is the twenty-fifth in the series of starting salary surveys conducted by the American Chemical Society. A summary of the results was published in the October 5, 1976 issue of Chemical and Engineering News.

The primary objective of the survey is to determine the salaries and occupational status of the students who majored in chemistry and chemical engineering and who graduated during the 1975-76 academic year. The survey covers the three degree levels: bachelor's, master's, and Ph.D. In addition, the survey provides information on major employer categories, on graduate study plans, on women and minority participation, and citizenship status.

METHOD OF COLLECTION AND TIMING OF SURVEY

Chemistry and chemical engineering departments provided lists of names and addresses of graduates. The cooperating departments were the chemistry departments approved by the ACS, and the chemical engineering departments accredited by the American Institute of Chemical Engineers and the Engineer's Council for Professional Development.

During the summer of 1976, the Office of Manpower Studies sent questionnaires to graduates who had U.S. addresses and graduation dates between September 1975 and June 1976. Summer graduates were excluded because most of them had twelve months experience by the time the survey was conducted.

EXTENT OF COVERAGE

Approximately 11,800 questionnaires were mailed to graduates of 531 chemistry and 123 chemical engineering departments. Most of the questionnaires were sent by bulk mail, but several hundred were sent first class. Since about 10% of those sent first class mail were returned, we infer that about 90% of the 11,800 questionnaires reached the graduates. By the mid-September cutoff date, the Office of Manpower Studies had received 5,142 responses, 5,084 of them usable.

The Office of Manpower Studies estimates that U.S. colleges and universities granted about 18,500 chemistry and chemical engineering degrees during the year ending June 1976. No effort was made to examine the characteristics of the graduates from departments that did not participate in the survey or of those graduates who did not mail back completed questionnaires.

DEFINITIONS

The questionnaire appears in the appendix. Question H on post-graduation status was edited in order to eliminate multiple check marks and to reflect as accurately as possible the employment status of the respondent.

The term "inexperienced" as used in the tables refers to those who have 12 months or less of prior professional work experience. Only the salaries of those who found full-time employment in chemistry or chemical engineering were analyzed. Postdoctoral salaries were analyzed separately. The discrepancies in the number of respondents in various tables reflect the use of incomplete questionnaires.

GEOGRAPHIC REGIONS

PACIFIC

WASHINGTON
OREGON
CALIFORNIA
ALASKA
HAWAII

MOUNTAIN

MONTANA
IDAHO
WYOMING
NEVADA
UTAH
COLORADO
ARIZONA
NEW MEXICO

WEST NORTH CENTRAL

NORTH DAKOTA
MINNESOTA
SOUTH DAKOTA
IOWA
NEBRASKA
KANSAS
MISSOURI

WEST SOUTH CENTRAL

OKLAHOMA
ARKANSAS
TEXAS
LOUISIANA

EAST NORTH CENTRAL

WISCONSIN
MICHIGAN
ILLINOIS
INDIANA
OHIO

EAST SOUTH CENTRAL

KENTUCKY
TENNESSEE
MISSISSIPPI
ALABAMA

MIDDLE ATLANTIC

NEW YORK
PENNSYLVANIA
NEW JERSEY

SOUTH ATLANTIC

DELAWARE
MARYLAND
WEST VIRGINIA
DISTRICT OF COLUMBIA
VIRGINIA
NORTH CAROLINA
SOUTH CAROLINA
GEORGIA
FLORIDA

NEW ENGLAND

MAINE
NEW HAMPSHIRE
VERMONT
MASSACHUSETTS
CONNECTICUT
RHODE ISLAND

AMERICAN CHEMICAL SOCIETY

Starting Salary and Employment Status of 1976 Chemistry and Chemical Engineering Graduates

- A. Sex: (1) Male (2) Female
- B. Year of birth _____
- C. Highest degree received in 1975-76 academic year: (1) Bachelors (2) Masters (3) Ph.D.
- D. Field of highest degree:
- | | |
|---|---|
| (01) <input type="checkbox"/> Chemical engineering | (07) <input type="checkbox"/> Organic chemistry |
| (02) <input type="checkbox"/> Chemistry, general | (08) <input type="checkbox"/> Pharmaceutical/medicinal/clinical chemistry |
| (03) <input type="checkbox"/> Biochemistry | (09) <input type="checkbox"/> Physical/theoretical chemistry |
| (04) <input type="checkbox"/> Agricultural/food chemistry | (10) <input type="checkbox"/> Polymer/macromolecular chemistry |
| (05) <input type="checkbox"/> Analytical chemistry | (14) <input type="checkbox"/> Chemistry, other (specify) _____ |
| (06) <input type="checkbox"/> Inorganic chemistry | (15) <input type="checkbox"/> Non-chemical (specify) _____ |
- E. Citizenship: (1) U.S. citizen (2) U.S. permanent resident visa (3) Other visa: (specify) _____
- F. Are you a member of any of the minority groups recognized by the Equal Employment Opportunity Commission listed below? Yes (5) No

If "Yes," please check those which apply to you:

- | | |
|--|--|
| (1) <input type="checkbox"/> Black/Negro | (2) <input type="checkbox"/> American Indian |
| (3) <input type="checkbox"/> Oriental (those of Chinese, Japanese, Korean, or Filipino ancestry) | (4) <input type="checkbox"/> Spanish-Surnamed (those of Mexican, Puerto Rican, Cuban, or Spanish ancestry) |

G. Post-graduation employment status:

- (1) Accepted (or continued) full-time employment in a field of chemistry or chemical engineering.
- (2) Accepted (or continued) full-time employment in a field other than chemistry or chemical engineering.
- (3) Accepted graduate assistantship or postdoctoral or other fellowship.
- (4) Entered military service, Peace Corps, VISTA, PHS, or other similar service.
- (5) Was unable to obtain full-time employment.
- (6) Was not seeking full-time employment.

H. Do you plan further advanced studies in fall 1976? Yes (14) No

If "Yes," please specify field:

- | | |
|--|---|
| (01) <input type="checkbox"/> Chemistry | (07) <input type="checkbox"/> Medicine |
| (02) <input type="checkbox"/> Other physical science | (08) <input type="checkbox"/> Dentistry |
| (03) <input type="checkbox"/> Chemical engineering | (09) <input type="checkbox"/> Pharmacy |
| (04) <input type="checkbox"/> Other engineering | (10) <input type="checkbox"/> Business administration |
| (05) <input type="checkbox"/> Biochemistry | (11) <input type="checkbox"/> Law |
| (06) <input type="checkbox"/> Other life science | (12) <input type="checkbox"/> Social science |
| | (13) <input type="checkbox"/> Other (specify) _____ |

IF YOU HAVE FULL-TIME EMPLOYMENT OR A POSTDOCTORAL POSITION, PLEASE ANSWER THE REMAINING QUESTIONS:

- I. Annual starting salary: \$ _____
- J. Technical work experience prior to graduation: (1) less than 12 months (or none) (2) 12 months or more
- K. Employer classification (check the one category which best describes your employer):
- Private industry or business:
- | | |
|---|--|
| (01) <input type="checkbox"/> manufacturing | (05) <input type="checkbox"/> Federal government |
| (02) <input type="checkbox"/> non-manufacturing | (06) <input type="checkbox"/> State or local government |
| (03) <input type="checkbox"/> College or university | (08) <input type="checkbox"/> Hospital or independent laboratory |
| (04) <input type="checkbox"/> High school or other school | (09) <input type="checkbox"/> Other non-profit organization |
| | (10) <input type="checkbox"/> Other (specify) _____ |
- L. Geographic location of employment: State _____
- M. How many firm offers of employment did you receive in a field of chemistry or chemical engineering? Specify number _____

PLEASE DO NOT WRITE IN THIS SPACE

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Certification
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