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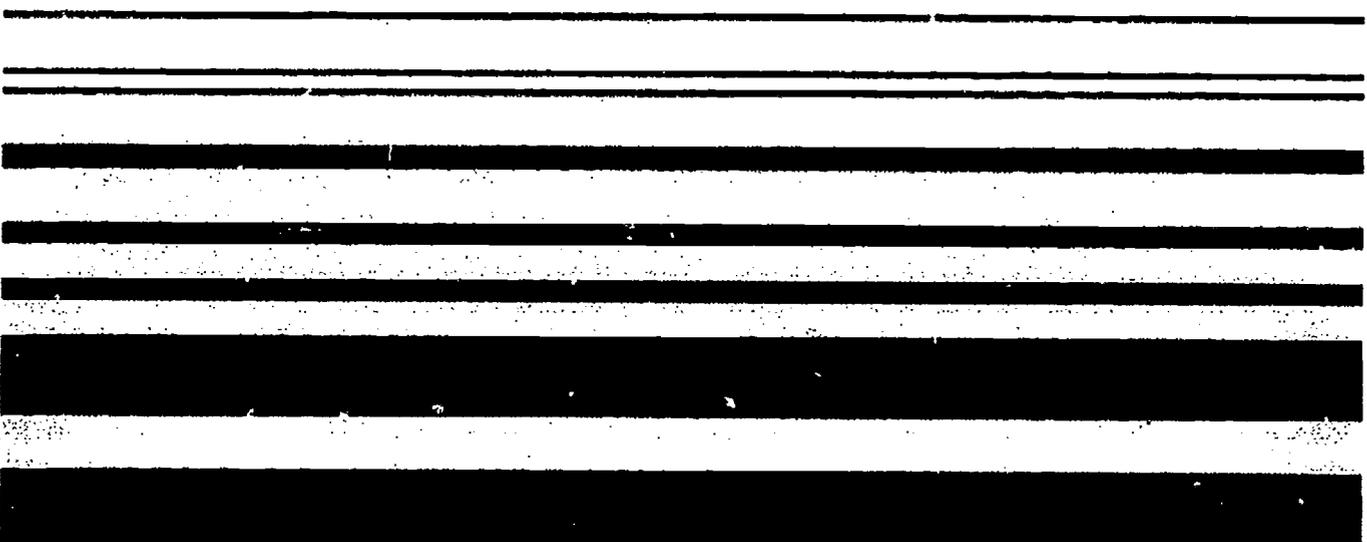
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ABSTRACT

Current and former fellows of the Garden State Graduate Fellowship Program were surveyed to evaluate the outcome of the program in general and to compare sources of financial support among different fields. Of the 317 current and former fellows, 189, or 60%, responded to the survey. The survey instrument gathered data on completion of degrees, fields of study, demographic characteristics, gender, sources of financial support (with special emphasis on student loans), and employment status. The report concludes that the fellowship program had made it possible for approximately 100 graduate students to complete Ph.D. degrees (in an average of 5 years) and a somewhat larger number to earn Master's degrees. The program kept graduate student loan borrowing at a much lower level than undergraduate borrowing. Seventy percent of respondents considered the fellowship to have been very important in the decision to choose a New Jersey graduate school. Only half of those who earned a Ph.D. were employed in New Jersey or the immediate region, compared to 80% of those who did not complete a Ph.D. A copy of the survey form and detailed tabulations of the results are found in the Appendix. (JDD)

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THE GARDEN STATE GRADUATE FELLOWSHIP PROGRAM

A Survey of Current and Former Fellows 1978-1988



New Jersey Department of Higher Education

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THE GARDEN STATE GRADUATE FELLOWSHIP PROGRAM

A Survey of Current and Former Fellows

1978-1988

New Jersey Department of Higher Education

Office of Student Assistance

Office of Grants and Scholarships

This report was prepared by:

**Lutz K. Berkner, Research Coordinator for Student Assistance
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The Garden State Graduate Fellowship Program A Survey of Current and Former Fellows, 1978-1988

Introduction

The Garden State Graduate Fellowship (GSGF) Program was established in 1977 to encourage the most academically talented undergraduates who are New Jersey residents to enroll in the graduate programs offered by New Jersey colleges and universities. The recipients are chosen every spring by a selection committee. Selection is based only on merit using a point system comprised of Graduate Record Examination (GRE) scores, undergraduate grades, and the results of confidential appraisals. The fellowship awards are renewable for up to four years, based on the recommendation of the graduate school attended.

The value of the annual award of the fellowship was \$4,000 from 1978 to 1983, raised to \$6,000 from 1984 to 1988, and was set at \$7,500 for new awards in 1989. The program was initiated with 25 first year graduate student awards in 1978, and has provided an average of about 80 fellowships a year since 1981. Typically, there have been 25 to 30 new fellows selected every year.

Between 1978 and 1988 fellowships were awarded to 317 individuals. Nearly half of these (45%) have enrolled in the graduate programs offered at Rutgers, New Brunswick, about one quarter have attended Princeton University, and about one quarter have enrolled in programs offered at eighteen other public and independent institutions in the state. The distribution of initial fellowships among institutions by year and the distribution of the total awards each year is shown in Tables A and B. The general trend in the last five years has been an increase in the proportion of fellows at Rutgers (60% in 1988) and a decrease at Princeton (20%) and the other institutions (20%).

Since 1989, the program has been focused on fields in which other sources of grant support are limited, and eligibility for initial fellowships has been restricted to the arts and humanities. Part of the rationale for this change was to reduce graduate student loan debt in fields which typically lead to lower paying careers. In the summer of 1989 current and former GSGF fellows were surveyed by the Office of Grants and Scholarships to describe the outcome of the program in general and to compare sources of financial support among different fields. A copy of the survey form and more detailed tabulations of the results summarized in the text may be found in the Appendix.

Results of the Survey of Former and Current Fellows

Response Rate

Of the 86 fellows who received an award in the 1988-89 academic year, 72 or 84% responded to the survey. The response rate for the 231 who had been fellows in prior years was only 51% (117). This lower response is partially due to the fact that only the addresses from the initial application were available, and more than half had first applied over seven years ago. Overall, 60% (189) of current and former fellows responded to the survey. [Table 1 in the Appendix]

Completion and Degrees

One third (65) of the respondents were currently enrolled as full-time graduate students in the summer of 1989. Of the 124 former fellows (including 7 who received their last award in 1988-89) 82% had received a degree, 15% were completing degree requirements, and only 3% had received no degree and did not intend to complete a program.

Of the former fellows, 38% had received the Ph.D., 42% had received an M.A. or M.S., and 20% had received various professional degrees (MBA, MPA, MED, MPH, MSW, MLS, etc.). However, one third of those with an MA/MS were still completing doctoral requirements (usually writing dissertations), so eventually about half of the former fellows will earn a Ph.D. Among current fellows, 68% are in Ph.D. programs, 18% in MA/MS programs, and 14% in professional master's programs. [Table 2]

Only one-third of the former fellows received fellowship awards for four full years, and nearly all of these were in Ph.D. programs. However, only one quarter of those who had received the Ph.D. actually completed the program in the four years during which they received the fellowship awards; another quarter finished in five years, the next quarter finished in 6 to 7 years, and the rest finished Ph.D. requirements in 8-10 years. The average time to Ph.D. completion for the former fellows was about five years, which is several years less than reported in national averages. [Tables 3, 4]

Fields of Study

Among all respondents there was a fairly even distribution among fields of study, with about 20% in each of five broad areas: humanities, social sciences and psychology, science and mathematics, engineering and computer science, and other professional degree fields. However, the current fellows are more likely to be in psychology or social science fields and less likely to be in engineering or other professional programs than their predecessors. [Table 5]

<u>Field of Study</u>	<u>Total Respondents</u>	<u>Former Fellows</u>	<u>Current Fellows</u>
Humanities	22%	22%	18%
Social Science & Psychology	20%	13%	32%
Science & Math	23%	23%	26%
Engineering & Comp. Science	17%	20%	11%
Other Professional	19%	22%	12%
TOTAL	100%	100%	100%

Personal Background

Only 3% of the respondents identified themselves as minorities (3 Asians, 1 Hispanic, no Blacks). A little more than half (52%) were women. It should be noted that neither ethnicity nor gender play any role in the selection criteria for the GSGF program, and there is a separate Educational Opportunity Fund Graduate Program whose purpose is to assist disadvantaged and minority graduate students.

There are significant differences between men and women in the choice of fields, the type of degree, and the choice of institution. Women were concentrated in the humanities, social sciences and other professional programs while men were concentrated in science and engineering, which is a national pattern. Women were somewhat less likely to be in Ph.D. programs than men, and somewhat more likely to be in professional master's programs. Men and women were about equally represented in the Rutgers programs, but there were twice as many men as women in the Princeton programs, and twice as many women as men at the other institutions. [Tables 6, 7, 8]

<u>Field</u>	<u>Men</u>	<u>Women</u>	<u>Degree</u>	<u>Men</u>	<u>Women</u>
Humanities	19%	24%	Ph.D.	51%	45%
Psych/Soc. Sci.	14	24	MA/MS	34	34
Science/Math	30	17	Prof	15	21
Engineering	24	10		100%	100%
Professional	12	24			
	100%	100%			

<u>School</u>	<u>Men</u>	<u>Women</u>
Rutgers	52%	54%
Princeton	30	15
Other	18	31
	100%	100%

These patterns are all related. Women have been more likely to choose professional master's degree programs (MBA, MPA, MED, etc.), which do not lead to a Ph.D., and these are the programs most frequently offered at institutions other than our two major graduate centers. Men have been more likely to choose science and engineering programs, and the

fellows attending Princeton have been concentrated in science and engineering.

Finances

Overall, 70% of the fellows responded that the GSGF award was "very important" in the decision to attend a New Jersey graduate school, only 6% replied that it was "not at all important." Of those in humanities or social science programs nearly 85% replied that it was "very important," compared to 55% in sciences and engineering. [Table 9]

For 70% of the fellows, the GSGF award covered more than half of graduate education costs. The average percentage of costs covered was 65% at Rutgers and 37% at Princeton. [Table 10]

<u>Percentage of costs Covered by GSGF</u>	<u>Percentage of Respondents</u>
25% or less of costs	14% of Fellows
30% - 40%	15%
50% - 75%	37%
Over 75% of costs	34%
	100%

The fellows indicated a variety of other sources of financial support. Almost half received tuition remission or waivers from the institution (62% at Rutgers, 38% at Princeton, and 23% at other institutions). Nearly 40% had held a part-time non-academic job or a teaching assistantship. Only 20% borrowed student loans for graduate study. Students in science and math were the most likely to have teaching assistantships, research assistantships, institutional fellowships and national fellowships; they were the least likely to have non-academic part-time jobs, student loans, or depend on support from a spouse.

**Other sources of
financial support**

<u>Other sources of financial support</u>	<u>Total</u>	<u>Humanities</u>	<u>Science</u>	<u>Former</u>	<u>Current</u>
Tuition Remission	47%	49%	54%	37%	66%
Part-time non-academic job	39	39	22	40	38
Teaching Assistantship	38	39	56	36	41
Research Assistantship	24	12	36	21	29
Institutional fellowship	20	17	31	14	32
Earnings of spouse	20	24	18	20	21
Student loans	19	21	9	22	13
Parental support	15	12	22	16	14
National fellowships	3	4	6	4	1
No other support	4	9	0	4	4

Current fellows appear to be receiving more institutional support than their predecessors: current fellows are much more likely to be receiving tuition remission (66% vs. 37% former) and institutional fellowships (32% vs. 14%), and are less dependent on student loans (13% of the current fellows vs. 22% of the former). Dependence on spouses (20%) and parents (15%) has not changed. [Table 11]

As discussed above, women are more likely to be in the non-scientific fields, and these fields typically have less graduate aid available. In general, women received less institutional support than men. They were less likely to receive tuition remission (41% vs. 53% men), teaching assistantships (32% vs. 44% men), and research assistantships (19% vs. 30% men), although the same proportion of women as men received institutional fellowships (20%). Women were twice as likely to hold part-time non-academic jobs (50% vs. 27% men), twice as likely to depend on spouses for support (27% vs. 13% men), and a little more likely to borrow (21% vs. 17% men). Partially this reflects the women's choice of fields (non-science), degree programs (professional master's), and institutions (non-doctoral) all of which are less likely to offer tuition remission and research assistantships.

Student Loans

Nearly half (43%) of the fellows had borrowed a student loan as undergraduates, entering graduate school with an average debt of \$5,800. Current fellows were more likely to have borrowed as undergraduates (53% vs. 38% for former fellows) and had a larger debt (\$6,300 vs. \$5,500) than former fellows. The fellows were much less likely to borrow as graduate students. Only 20% took out graduate loans, and less than 10% had both graduate and undergraduate loans. The average graduate debt was about the same as the undergraduate debt (\$5,800). For the ten percent who borrowed both as undergraduates and graduates, the average was \$6,800. [Table 12]

Graduate borrowing appears to have decreased, from 21% of the former fellows, to only 13% of the current fellows. This is partially due to the increased percentage receiving institutional fellowships, assistantships, and tuition remission, and a shift away from professional master's programs which typically offer little additional aid. It is also due to the higher concentration of current fellows at Rutgers, where there is less graduate borrowing both because of lower tuition and a higher percentage receiving tuition waivers.

Students in science and mathematics were the least likely to borrow as graduate students (9%) and had the lowest combined graduate and undergraduate debt (\$4,600). Engineering and computer science graduate students, however, borrowed at about the average rate (18%) and had the highest proportions and dollars of combined undergraduate and graduate debt (18% and \$7,200). Part of the reason is that engineering students were concentrated at Princeton, which has the highest tuition.

As undergraduates, women tended to borrow less often (40% vs. 47% men), and a lesser amount (\$5,100 vs. \$6,500 for men), but as graduate students women were more likely to borrow (20% vs. 17%) and borrowed larger amounts (\$6,400 vs. \$5,000 for men).

Of the 53% who had borrowed either as undergraduates or graduate students, about 35% are still in school, 25% have paid off the loan, and 45% are making payments which typically range from \$50 to \$150 per month (the highest monthly payment reported was \$250).

Employment

Of the 124 former fellows responding, 80% were employed full-time, 10% were working part-time, 10% were engaged in other activities, and only one was unemployed seeking employment. Seventy percent are employed in New Jersey (58%) and New York or Pennsylvania (12%). Thirty percent are employed outside the region. The categories which were least likely to remain in the region were men (59% in the region), in the humanities (56%), with a Ph.D. (50%), and Princeton graduates (43%). The most likely to stay in the region were women (76%), in professional master's programs (85%), and attending institutions other than Rutgers or Princeton (91%). [Table 13]

More than half of the former fellows are employed at either educational institutions (37%) or in government or other non-profit organizations (18%). The highest proportion that went into college teaching came from the humanities (57%), the lowest from science and mathematics (20%). About 40% are employed in business and industry, especially those with engineering or computer science degrees (70%).

Among those currently employed full-time, the gender difference among the fields of study is even more pronounced: three quarters of those with degrees in the humanities, social sciences and other professional programs are women. Moreover, the women were nearly twice as likely to take teaching positions (43% vs. 27% of the men).

Seventy-five percent of the respondents replied that their employment was "directly or closely related" to their graduate field of study; only 8% replied that the field was not at all related to their career. [Table 14]

Since the respondents have been employed anywhere from one to ten years, comparisons of salary levels are of limited value. Nevertheless, the difference in the salary levels of those with science and engineering degrees compared to all others is striking. The proportion earning an annual salary over \$40,000 was 65% of those in engineering and computer science and 40% of those in science and mathematics; in the humanities there were only two individuals (9%) earning over \$40,000, one (5%) in other professions, and none in the social sciences and psychology. Salaries in the humanities were by far the lowest, with nearly 40% earning under \$20,000. As a rough control for length of time employed, we used the average current age of the respondents. Engineers, who earn the highest salaries, are also the youngest (average age 29), while those in the humanities, who earn the lowest salaries, are also the oldest (average age of 33).

The contrast between men and women, which reflects the choice of science vs. non-science, continues in salary levels. Women are more likely to earn under \$20,000 (22% vs. 9% men) and least likely to earn over \$40,000 (16% vs. 36% men). The percentage of fellows earning over \$40,000 by type of employment was 5% in government and non-profit, 13% in education, and 51% in business and industry. [Table 15]

Conclusion

If the responses to the survey are representative of the 240 former fellows, then during the last decade the Garden State Graduate Fellowship Program has made it possible for approximately 100 graduate students to earn a Ph.D. and a somewhat larger number to earn a Master's degree. It has helped those earning a Ph.D. to complete their degrees in an average of five years and to keep graduate student loan borrowing at a much lower level than undergraduate borrowing. Seventy percent considered the GSGF fellowship to have been very important in the decision to choose a New Jersey graduate school. Nearly all of the former fellows are employed full-time in careers closely related to their fields of study. However, only half of those who earned a Ph.D. are employed in New Jersey or the immediate region, compared to 80% of those who did not complete a Ph.D.

The survey confirms the assumptions that science and engineering graduate students have more sources of aid available than those in the humanities, and are also able to command substantially higher salaries. The survey also shows that the women, who are underrepresented in science programs, have not done as well as the men in either financial aid or salaries. Current fellows are somewhat less likely to borrow for graduate study, and are more likely to receive institutional aid (fellowships, assistantships and tuition waivers) than their predecessors.

A P P E N D I X

**GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
TABLE A: NUMBER OF INITIAL AWARDS**

	FIRST ACADEMIC YEAR OF AWARD											TOTAL	TOTAL
	78	79	80	81	82	83	84	85	86	87	88			N	%
	N	N	N	N	N	N	N	N	N	N	N	N	
DREW	.	1	.	1	.	.	1	1	.	.	.	4	1
FDU MADISON	.	.	1	.	.	.	.	.	.	.	1	2	1
FDU RUTHERFORD	2	.	.	.	3	2	2	2	1	2	.	14	4
FDU TEANECK	.	.	.	.	.	.	.	.	.	.	2	2	1
GLASSBORO	1	.	1	2	.	.	1	.	.	.	.	5	2
JERSEY CITY	.	1	.	.	.	.	.	.	.	1	1	3	1
KEAN	1	1	1	1	.	1	.	1	.	.	.	6	2
MONMOUTH	.	.	.	1	.	.	.	.	.	.	.	1	0
MONTCLAIR	.	1	2	2	1	.	.	1	.	.	.	7	2
NJIT	2	.	2	.	1	.	.	.	.	3	.	8	3
PRINCETON	5	8	9	12	8	8	8	5	8	3	7	81	26
RUTGERS CAMDEN	.	.	.	.	.	.	.	.	.	.	1	1	0
RUTGERS NEWARK	.	.	.	1	1	.	.	.	.	.	.	2	1
RUTGERS NEWBRWK	5	11	6	18	11	12	9	16	20	16	16	140	44
SETON HALL	1	1	3	.	1	.	.	.	.	.	1	7	2
STEVENS	4	.	2	1	2	1	2	1	1	1	1	19	5
TRENTON	2	1	2	.	.	.	.	.	.	.	1	6	2
UMDNJ	1	.	1	.	.	.	1	.	1	1	.	5	2
WESTMINSTER	.	.	.	2	.	1	.	.	.	.	.	3	1
WM PATERSON	1	.	.	1	1	.	.	.	.	1	.	4	1
TOTAL	25	25	30	42	29	25	24	27	31	28	31	317	100

**GARDEN STATE GRADUATE FELLOWSHIPS
TABLE B: TOTAL AWARDS IN FALL SEMESTER**

	TOTAL NUMBER OF AWARDS										
	78	79	80	81	82	83	84	85	86	87	88
	N	N	N	N	N	N	N	N	N	N	N
DREW	.	1	1	2	2	2	2	2	1	1	.
FDU MADISON	.	.	1	.	1	.	.	.	.	.	1
FDU RUTHERFORD	2	2	.	.	3	2	4	4	6	4	2
FDU TEANECK	.	.	.	.	.	.	.	.	.	.	2
GLASSBORO	1	.	1	3	.	.	1	.	.	.	.
JERSEY CITY	.	1	.	.	.	.	.	.	.	1	1
KEAN	1	2	1	2	.	1	.	1	1	1	.
MONMOUTH	.	.	.	1	.	.	.	.	.	.	.
MONTCLAIR	.	1	2	3	3	2	.	1	1	1	.
NJIT	2	1	3	1	1	2	.	.	.	4	4
PRINCETON	5	11	18	27	32	33	30	26	24	16	18
RUTGERS CAMDEN	.	.	.	.	.	.	.	.	.	.	1
RUTGERS NEWARK	.	.	.	2	3	2	.	1	1	.	.
RUTGERS NEWBRWK	5	14	18	33	39	39	31	33	46	45	53
SETON HALL	1	1	4	.	1	1	.	.	.	.	1
STEVENS	4	2	4	4	4	4	4	3	3	2	2
TRENTON	2	1	2	.	.	.	.	.	.	.	1
UMDNJ	1	1	2	1	1	1	1	1	1	2	.
WESTMINSTER	.	.	.	2	2	2	1	.	.	.	.
WM PATERSON	1	1	.	1	1	.	1	.	.	1	.
TOTAL	25	39	57	82	93	91	75	72	84	78	86

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
 GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
 SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

OSA RESEARCH:LKB 11/15/87

TABLE 1 . SURVEY RESPONSES BY LAST YEAR OF FELLOWSHIP

TABLE OF RESPOND BY AY2

RESPOND(SURVEY RESPONSE)	AY2(LAST YEAR OF AWARD)											TOTAL
FREQUENCY PERCENT ROW PCT COL PCT	78	79	80	81	82	83	84	85	86	87	88	
YES	0	4	10	10	12	20	15	13	17	16	72	189
	0.00	1.26	3.15	3.15	3.79	6.31	4.73	4.10	5.36	5.05	22.71	59.62
	0.00	2.12	5.29	5.29	6.35	10.58	7.94	6.88	8.99	8.47	38.10	
	0.00	40.00	58.82	52.63	46.15	52.63	45.45	68.42	51.52	64.00	83.72	
NO	11	6	7	9	14	18	18	6	16	9	14	128
	3.47	1.89	2.21	2.84	4.42	5.68	5.68	1.89	5.05	2.84	4.42	40.38
	8.59	4.69	5.47	7.03	10.94	14.06	14.06	4.69	12.50	7.03	10.94	
	100.00	60.00	41.18	47.37	53.85	47.37	54.55	31.58	48.48	36.00	16.28	
TOTAL	11	10	17	19	26	38	33	19	33	25	86	317
	3.47	3.15	5.36	5.99	8.20	11.99	10.41	5.99	10.41	7.89	27.13	100.00

Table 1

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
 GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
 SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

TABLE 2 : DEGREES RECEIVED AND DEGREE GOALS OF CURRENT FELLOWS

TABLE OF DEGREE BY STATUS

DEGREE	STATUS		TOTAL
	CURRENT	FORMER	
FREQUENCY			
PERCENT			
ROW PCT			
COL PCT			
PHD	44	45	89
	23.78	24.32	48.11
	49.44	50.56	
	67.69	37.50	
MA/MS	12	51	63
	6.49	27.57	34.05
	19.05	80.95	
	18.46	42.50	
PROFL	9	24	33
	4.86	12.97	17.84
	27.27	72.73	
	13.85	20.00	
TOTAL	65	120	185
	35.14	64.86	100.00

FREQUENCY MISSING = 4

Table 2

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
 GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
 SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

OSA RESEARCH:LKB 11/15/89

TABLE 3 : NUMBER OF YEARS AWARD RECEIVED BY FORMER FELLOWS

TABLE OF DEGREE BY COUNT

DEGREE	COUNT (YEARS PAID)				TOTAL
	1	2	3	4	
PHD	2	5	1	37	45
	1.67	4.17	0.83	30.83	37.50
	4.44	11.11	2.22	82.22	
	8.00	12.20	7.89	90.24	
MA/MS	16	25	9	1	51
	13.33	20.83	7.50	0.83	42.50
	31.37	49.02	17.65	1.96	
	64.00	60.98	69.23	2.44	
PROFL	7	11	3	3	24
	5.83	9.17	2.50	2.50	20.00
	29.17	45.83	12.50	12.50	
	28.00	26.83	23.08	7.32	
TOTAL	25	41	13	41	120
	20.83	34.17	10.83	34.17	100.00

FREQUENCY MISSING = 4

Table 3



NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
 GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
 SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

OSA RESEARCH:LKB 11/15/89

TABLE 4: NUMBER OF YEARS TO COMPLETE DEGREE OF FORMER FELLOWS

TABLE OF DEGREE BY DGYRS

DEGREE	DGYRS(YEARS TO COMPLETION)										TOTAL	
	1	2	3	4	5	6	7	8	9	10		
PHD	0	1	0	10	11	7	2	4	3	1	39	
	0.00	0.92	0.00	9.17	10.09	6.42	1.83	3.67	2.75	0.92		35.78
	0.00	2.56	0.00	25.64	28.21	17.95	5.13	10.26	7.69	2.56		
	0.00	3.13	0.00	76.92	78.57	70.00	100.00	100.00	100.00	100.00		
MA/MS	13	21	10	1	2	3	0	0	0	0	50	
	11.93	19.27	9.17	0.92	1.83	2.75	0.00	0.00	0.00	0.00		45.87
	26.00	42.00	20.00	2.00	4.00	6.00	0.00	0.00	0.00	0.00		
	81.25	65.63	71.43	7.69	14.29	30.00	0.00	0.00	0.00	0.00		
PROFL	3	10	4	2	1	0	0	0	0	0	20	
	2.75	9.17	3.67	1.83	0.92	0.00	0.00	0.00	0.00	0.00		18.35
	15.00	50.00	20.00	10.00	5.00	0.00	0.00	0.00	0.00	0.00		
	18.75	31.25	28.57	15.38	7.14	0.00	0.00	0.00	0.00	0.00		
TOTAL	16	32	14	13	14	10	2	4	3	1	109	
	14.68	29.36	12.84	11.93	12.84	9.17	1.83	3.67	2.75	0.92	100.00	

FREQUENCY MISSING = 15

Table 4



NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
 GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
 SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

OSA RESEARCH:LKB 11/15/89

TABLE 5 : FIELDS OF STUDY OF CURRENT AND FORMER FELLOWS

TABLE OF FIELD BY STATUS

FIELD	STATUS		
	CURRENT	FORMER	TOTAL
HUMANITIES	12	29	41
FREQUENCY	6.35	15.34	21.69
PERCENT	29.27	70.73	
ROW PCT	18.46	23.39	
COL PCT			
PSYCHLGY/SOC SCI	21	16	37
FREQUENCY	11.11	8.47	19.58
PERCENT	56.76	43.24	
ROW PCT	32.31	12.90	
COL PCT			
SCIENCE/ MATH	17	27	44
FREQUENCY	8.99	14.29	23.28
PERCENT	38.64	61.36	
ROW PCT	26.15	21.77	
COL PCT			
ENGINEER/COMPUTE	7	25	32
FREQUENCY	3.70	13.23	16.93
PERCENT	21.88	78.13	
ROW PCT	10.77	20.16	
COL PCT			
OTHER PROFESSNL	8	27	35
FREQUENCY	4.23	14.29	18.52
PERCENT	22.86	77.14	
ROW PCT	12.31	21.77	
COL PCT			
TOTAL	65	124	189
FREQUENCY	34.39	65.61	100.00
PERCENT			
ROW PCT			
COL PCT			

Table 5

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
 GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
 SURVEY OF CURRENT AND FORMER FELLOWS 1978-1980

TABLE 6

TABLE OF FIELD BY GENDER

FIELD	GENDER		TOTAL
	MEN	WOMEN	
FREQUENCY			
PERCENT			
ROW PCT			
COL PCT			
HUMANITIES	17 8.99 41.46 18.89	24 12.70 58.54 24.24	41 21.09
PSYCHLGY/SOC SCI	13 6.88 35.14 14.44	24 12.70 64.86 24.24	37 19.58
SCIENCE/ MATH	27 14.29 61.36 30.00	17 8.99 38.64 17.17	44 23.28
ENGINEER/COMPUTE	22 11.64 68.75 24.44	10 5.29 31.25 10.10	32 16.93
OTHER PROFESSNL	11 5.82 31.43 12.22	24 12.70 68.57 24.24	35 18.52
TOTAL	90 47.62	99 52.38	189 100.00

Table 6

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
 GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
 SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

TABLE 7

TABLE OF DEGREE BY GENDER

DEGREE	GENDER		TOTAL
	MEN	WOMEN	
PHD	45	44	89
	24.32	23.78	48.11
	50.56	49.44	
	51.14	45.36	
MA/MS	30	33	63
	16.22	17.84	34.05
	47.62	52.38	
	34.09	34.02	
PROFL	13	20	33
	7.03	10.81	17.84
	39.39	60.61	
	14.77	20.62	
TOTAL	88	97	185
	47.57	52.43	100.00

FREQUENCY MISSING = 4

Table 7

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
 GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
 SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

TABLE 8

TABLE OF SECTOR BY GENDER

SECTOR(SCHOOL)	GENDER		TOTAL
	MEN	WOMEN	
RUTGERS	47	53	100
	24.87	28.04	52.91
	47.00	53.00	
	52.22	53.54	
PRINCETN	27	15	42
	14.29	7.94	22.22
	64.29	35.71	
	30.00	15.15	
OTHER	16	31	47
	8.47	16.40	24.87
	34.04	65.98	
	17.78	31.31	
TOTAL	90	99	189
	47.82	52.38	100.00

Table 8

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
 GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
 SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

TABLE 9 : IMPORTANCE OF GSGF IN SELECTING NJ GRAD SCHOOL

TABLE OF FIELD BY IMPORT

FIELD	IMPORT(IMPORTANCE)			TOTAL
	VERY IMPORTN	SOMEWHAT	NOT AT ALL	
FREQUENCY				
PERCENT				
ROW PCT				
COL PCT				
HUMANITIES	34	6	1	41
	17.99	3.17	0.53	21.69
	82.93	14.63	2.44	
	25.95	13.04	8.33	
PSYCHLGY/SOC SCI	31	4	2	37
	16.40	2.12	1.06	19.58
	83.78	10.81	5.41	
	23.66	8.70	16.67	
SCIENCE/ MATH	24	16	4	44
	12.70	8.47	2.12	23.28
	54.55	36.36	9.09	
	18.32	34.78	33.33	
ENGINEER/COMPUTE	20	10	2	32
	10.58	5.29	1.06	16.93
	62.50	31.25	6.25	
	15.27	21.74	16.67	
OTHER PROFESSNL	22	10	3	35
	11.64	5.29	1.59	18.52
	62.86	28.57	8.57	
	16.79	21.74	25.00	
TOTAL	131	46	12	189
	69.31	24.34	6.35	100.00

Table 9

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
 GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
 SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

TABLE 10 : % OF GRADUATE COSTS COVERED BY GSGF AWARD

TABLE OF PCTCOVER BY SECTOR

PCTCOVER(GSGF AS % OF COSTS)
 SECTOR(SCHOOL)

FREQUENCY PERCENT ROW PCT COL PCT	RUTGERS	PRINCETN	OTHER	TOTAL
UNDER 25%	5 2.82 20.83 5.32	16 9.04 66.67 40.00	3 1.69 12.50 6.98	24 13.56
30%-40%	10 5.65 38.46 10.64	11 6.21 42.31 27.50	5 2.82 19.23 11.63	26 14.69
50%-75%	40 22.60 60.61 42.55	10 5.65 15.15 25.00	16 9.04 24.24 37.21	66 37.29
OVER 75%	39 22.03 63.93 41.49	3 1.69 4.92 7.50	19 10.73 31.15 44.19	61 34.46
TOTAL	94 53.11	40 22.60	43 24.29	177 100.00

FREQUENCY MISSING = 12

Table 10

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

TABLE 11 : OTHER SOURCES OF SUPPORT

FIELD	TOTAL RESPONSE	TUITION REMISSN	PART-TM JOB	TEACHING ASST	RESEARCH ASST	INSTITNL FELLWSHP	SPOUSE SUPPORT	STUDENT LOANS	PARENTL SUPPORT	NATIONAL FELLWSHP	NO OTHER
	N	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT
HUMANITIES	41	48%	39%	39%	12%	17%	24%	21%	12%	4%	9%
PSYCHLGY/SOC SCI	37	43%	54%	24%	21%	13%	29%	27%	13%	.	9%
SCIENCE/ MATH	44	54%	22%	56%	36%	31%	18%	9%	22%	6%	.
ENGINEER/COMPUTER	32	46%	28%	50%	43%	25%	12%	18%	18%	3%	.
OTHER PROFESSNL	35	40%	57%	17%	8%	14%	17%	22%	8%	.	5%
TOTAL	189	47%	39%	38%	24%	20%	20%	19%	15%	3%	4%
STATUS											
CURRENT	65	66%	38%	41%	29%	32%	21%	13%	16%	1%	4%
FORMER	124	37%	40%	36%	21%	14%	20%	22%	14%	4%	4%
TOTAL	189	47%	39%	38%	24%	20%	20%	19%	15%	3%	4%
SCHOOL											
RUTGERS	100	62%	45%	37%	12%	21%	16%	12%	17%	.	7%
PRINCETN	42	38%	21%	59%	42%	28%	21%	30%	11%	14%	.
OTHER	47	23%	44%	21%	34%	12%	29%	25%	14%	.	4%
TOTAL	189	47%	39%	38%	24%	20%	20%	19%	15%	3%	4%
GENDER											
MEN	90	53%	27%	44%	30%	21%	13%	17%	16%	4%	5%
WOMEN	99	41%	50%	32%	19%	20%	27%	21%	14%	2%	4%
TOTAL	189	47%	39%	38%	24%	20%	20%	19%	15%	3%	4%

Table 11

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

OSA RESEARCH:LKB 11/15/89

TABLE 12 : STUDENT LOAN BORROWING

FIELD	GENDER				TOTAL		UNDER-GRAD LOAN	GRAD LOAN	EITHER	BOTH	PCT COST COVERED BY GSGF	UNDER-GRAD DEBT	GRAD DEBT	TOTAL DEBT
	MEN		WOMEN		N	PCT	PCT	PCT	PCT	PCT	PCT	AVG \$	AVG \$	AVG \$
	N	PCT	N	PCT										
HUMANITIES	17	41%	24	58%	41	100%	43%	19%	53%	9%	60%	6364	5856	7336
PSYCHLGY/SOC SCI	13	35%	24	64%	37	100%	43%	27%	59%	10%	63%	7384	6602	8371
SCIENCE/ MATH	27	61%	17	38%	44	100%	43%	9%	50%	2%	58%	4082	5975	4612
ENGINEER/COMPUTER	22	68%	10	31%	32	100%	50%	18%	50%	18%	48%	5482	4583	7201
OTHER PROFESSNL	11	31%	24	68%	35	100%	40%	22%	54%	8%	63%	6171	5363	6805
TOTAL	90	47%	99	52%	189	100%	43%	19%	53%	9%	59%	5836	5755	6847
STATUS														
CURRENT	36	55%	29	44%	65	100%	53%	13%	58%	9%	55%	6293	5152	7017
FORMER	54	43%	70	56%	124	100%	36%	21%	50%	9%	60%	5502	5956	6745
TOTAL	90	47%	99	52%	189	100%	43%	19%	53%	9%	59%	5836	5755	6847
SCHOOL														
RUTGERS	47	47%	53	53%	100	100%	50%	12%	55%	7%	65%	5466	5821	6239
PRINCETN	27	64%	15	35%	42	100%	40%	30%	59%	11%	37%	6032	6386	7423
OTHER	16	34%	31	65%	47	100%	34%	23%	44%	12%	65%	6782	4936	7753
TOTAL	90	47%	99	52%	189	100%	43%	19%	53%	9%	59%	5836	5755	6847
GENDER														
MEN	90	100%	.	.	90	100%	47%	17%	55%	10%	57%	6486	4997	7177
WOMEN	.	.	99	100%	99	100%	40%	20%	51%	9%	60%	5137	6361	6523
TOTAL	90	47%	99	52%	189	100%	43%	19%	53%	9%	59%	5836	5755	6847

Table 12



NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

TABLE 13 : EMPLOYMENT

FIELD	GENDER						TYPE OF EMPLOYMENT								EMPLOYER LOCATION					
	MEN		WOMEN		TOTAL		EDUCATION		GOVT & NONPROFIT		BUSINESS INDUSTRY		OTHER		NEW JERSEY		NY & PA		OTHER STATES	
	N	PCT	N	PCT	N	PCT	N	PCT	N	PCT	N	PCT	N	PCT	N	PCT	N	PCT	N	PCT
HUMANITIES	5	23%	16	76%	21	100%	12	57%	2	9%	7	33%			10	47%	2	9%	9	42%
PSYCHLGY/SOC SCI	4	28%	10	71%	14	100%	5	35%	5	35%	1	7%	3	21%	9	64%	2	14%	3	21%
SCIENCE/ MATH	17	68%	8	32%	25	100%	5	20%	8	32%	12	48%			14	56%	2	8%	9	36%
ENGINEER/COMPUTER	12	60%	8	40%	20	100%	6	30%			14	70%			12	60%	2	10%	6	30%
OTHER PROFESSNL	5	25%	15	75%	20	100%	9	45%	3	15%	5	25%	3	15%	13	65%	4	20%	3	15%
TOTAL	43	43%	57	57%	100	100%	37	37%	18	18%	39	39%	6	6%	58	58%	12	12%	30	30%
DEGREE																				
PHD	18	50%	18	50%	36	100%	15	41%	7	19%	14	38%			15	41%	3	8%	18	50%
MA/MS	19	42%	26	57%	45	100%	14	31%	6	13%	22	43%	3	6%	33	73%	4	8%	8	17%
PROFL	6	31%	13	68%	19	100%	8	42%	5	26%	3	15%	3	15%	10	52%	5	26%	4	21%
TOTAL	43	43%	57	57%	100	100%	37	37%	18	18%	39	39%	6	6%	58	58%	12	12%	30	30%
SCHOOL																				
RUTGERS	20	43%	26	56%	46	100%	16	34%	11	23%	17	36%	2	4%	25	54%	7	15%	14	30%
PRINCETN	13	56%	10	43%	23	100%	10	43%	2	8%	11	47%			9	39%	1	4%	13	56%
OTHER	10	32%	21	67%	31	100%	11	35%	5	16%	11	35%	4	12%	24	77%	4	12%	3	9%
TOTAL	43	43%	57	57%	100	100%	37	37%	18	18%	39	39%	6	6%	58	58%	12	12%	30	30%
GENDER																				
MEN	43	100%			43	100%	12	27%	10	23%	21	48%			20	46%	6	13%	17	39%
WOMEN			57	100%	57	100%	25	43%	8	14%	18	31%	6	10%	38	66%	6	10%	13	22%
TOTAL	43	43%	57	57%	100	100%	37	37%	18	18%	39	39%	6	6%	58	58%	12	12%	30	30%

Table 13

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
 GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
 SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

TABLE 14 : RELATIONSHIP OF GRADUATE FIELD TO CURRENT JOB

TABLE OF FIELD BY RELATE

FIELD	RELATE(RELATED TO FIELD)			TOTAL
	VERY IMPORTN	SOMEWHAT	NOT AT ALL	
FREQUENCY PERCENT ROW PCT COL PCT				
HUMANITIES	18 16.22 72.00 21.95	4 3.60 16.00 20.00	3 2.70 12.00 33.33	25 22.52
PSYCHLGY/SOC SCI	12 10.81 85.71 14.63	1 0.90 7.14 5.00	1 0.90 7.14 11.11	14 12.61
SCIENCE/ MATH	16 14.41 61.54 19.51	8 7.21 30.77 40.00	2 1.80 7.69 22.22	26 23.42
ENGINEER/COMPUTE	20 18.02 83.33 24.39	3 2.70 12.50 15.00	1 0.90 4.17 11.11	24 21.62
OTHER PROFESSNL	16 14.41 72.73 19.51	4 3.60 18.18 20.00	2 1.80 9.09 22.22	22 19.82
TOTAL	82 73.87	20 18.02	9 8.11	111 100.00

FREQUENCY MISSING = 13

Table 14

NEW JERSEY DEPARTMENT OF HIGHER EDUCATION
GARDEN STATE GRADUATE FELLOWSHIP PROGRAM
SURVEY OF CURRENT AND FORMER FELLOWS 1978-1988

TABLE 15 : CURRENT SALARIES

FIELD	AGE IN 1989 MEAN	GENDER				TOTAL		CURRENT SALARY							
		MEN		WOMEN				UNDER \$20,000		\$20-\$30,000		\$30-\$40,000		OVER \$40,000	
		N	PCT	N	PCT	N	PCT	N	PCT	N	PCT	N	PCT	N	PCT
HUMANITIES	33	5	23%	16	76%	21	100%	8	38%	9	42%	2	9%	2	9%
PSYCHLGY/SOC SCI	33	4	28%	10	71%	14	100%	2	14%	6	42%	6	42%		
SCIENCE/ MATH	31	17	68%	8	32%	25	100%	4	16%	7	28%	4	16%	10	40%
ENGINEER/COMPUTER	29	12	60%	8	40%	20	100%			2	10%	5	25%	13	65%
OTHER PROFESSNL	32	5	25%	15	75%	20	100%	3	15%	7	35%	9	45%	1	5%
TOTAL	31	43	43%	57	57%	100	100%	17	17%	31	31%	26	26%	26	26%
DEGREE															
PHD	33	18	50%	18	50%	36	100%	6	16%	8	22%	5	13%	17	47%
MA/MS	31	19	42%	26	57%	45	100%	6	13%	14	31%	16	35%	9	20%
PROFL	32	6	31%	13	68%	19	100%	5	26%	9	47%	5	26%		
TOTAL	31	43	43%	57	57%	100	100%	17	17%	31	31%	26	26%	26	26%
TYPE OF EMPLOYMENT															
EDUCATION	33	12	32%	25	67%	37	100%	8	21%	15	40%	9	24%	5	13%
GOVT & NONPROFIT	31	10	55%	8	44%	18	100%	4	22%	7	38%	6	33%	1	5%
BUSINESS INDUSTRY	30	21	53%	18	46%	39	100%	4	10%	5	12%	10	25%	20	51%
OTHER	31			6	100%	6	100%	1	16%	4	66%	1	16%		
TOTAL	31	43	43%	57	57%	100	100%	17	17%	31	31%	26	26%	26	26%
GENDER															
MEN	30	43	100%			43	100%	4	9%	11	25%	12	27%	16	37%
WOMEN	32			57	100%	57	100%	13	22%	20	35%	14	24%	10	17%
TOTAL	31	43	43%	57	57%	100	100%	17	17%	31	31%	26	26%	26	26%

Table 15

Survey Instrument

If Label is not Correct
Print Corrections Below

GARDEN STATE GRADUATE FELLOWSHIP PROGRAM SURVEY OF CURRENT AND FORMER FELLOWS

SECTION I ACADEMIC HISTORY (To be Completed by all Fellows)

(1) What is your current status in the program for which you enrolled as a Garden State Fellow?

- ___ 1. I am currently enrolled as a full-time student and expect to complete the program in _____(year)
- ___ 2. I completed the program and received a degree in _____(year)
- ___ 3. I am no longer a full-time student, but expect to complete the degree requirements for the program in _____(year)
- ___ 4. I did not complete the program and am no longer enrolled

Reason not enrolled/not completed _____

(2) What is the highest degree which you have received or expect to receive as a result of your Garden State Fellowship?

- ___ 1. Ph.D. ___ 3. M.S. ___ 5. M.B.A. ___ 7. M.Ed.
- ___ 2. M.A. ___ 4. M.F.A. ___ 6. M.P.A. ___ 8. Other _____
specify

(3) How important was the Garden State Fellowship as a factor in your decision to attend graduate school in New Jersey?

- ___ 1. Very important
- ___ 2. Somewhat important
- ___ 3. Not at all important

(4) Please indicate the general area and the specific field of study of your degree program.

- | | |
|--|--|
| <input type="checkbox"/> 1. Humanities _____ | <input type="checkbox"/> 7. Computer Science _____ |
| <input type="checkbox"/> 2. Fine Arts _____ | <input type="checkbox"/> 8. Engineering _____ |
| <input type="checkbox"/> 3. Social Sciences _____ | <input type="checkbox"/> 9. Business/Pub. Admin. _____ |
| <input type="checkbox"/> 4. Psychology _____ | <input type="checkbox"/> 10. Education _____ |
| <input type="checkbox"/> 5. Natural Sciences _____ | <input type="checkbox"/> 11. Other _____ |
| <input type="checkbox"/> 6. Mathematics _____ | |

(5) In addition to the GSGF, what other sources of financial support do/did you have for your graduate education? Please indicate all sources:

- | | |
|--|---|
| <input type="checkbox"/> 1. Teaching assistantship | <input type="checkbox"/> 6. Tuition remission from institutic |
| <input type="checkbox"/> 2. Research assistantship | <input type="checkbox"/> 7. Part-time non-academic job |
| <input type="checkbox"/> 3. Institutional fellowship | <input type="checkbox"/> 8. Support from parents |
| <input type="checkbox"/> 4. National fellowship | <input type="checkbox"/> 9. Earnings of spouse |
| <input type="checkbox"/> 5. Student loan | <input type="checkbox"/> 10. No other sources of support |

(6) Approximately what percentage of your annual expenses as a graduate student are/were covered by the GSGF? _____%

(7) How much have/did you borrow in student loans for your education?

Undergraduate \$ _____ Graduate \$ _____

(8) Are you currently repaying a student loan?

- 1. No, I did not borrow a loan
- 2. No, I am still in school
- 3. No, I finished repaying in _____ (year)
- 4. Yes, I am making monthly payments of \$ _____

(9) Where did you attend college as an undergraduate?

Name _____ State Located _____

(10) Please describe yourself:

Year of birth _____

- | | | | |
|------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|
| <input type="checkbox"/> 1. Male | <input type="checkbox"/> 1. White | <input type="checkbox"/> 3. Asian | <input type="checkbox"/> 5. Other |
| <input type="checkbox"/> 2. Female | <input type="checkbox"/> 2. Black | <input type="checkbox"/> 4. Hispanic | |

(11) Do you have any suggestions for changes or improvements in the GSFS program?

TO BE COMPLETED IF YOU ARE NO LONGER A FULL-TIME STUDENT:

SECTION II: EMPLOYMENT INFORMATION

(1) What is your current employment status?

- 1. Employed full-time
- 2. Employed part-time
- 3. Unemployed, seeking employment
- 4. Other _____

(2) Please describe your current position and principal employer

(a) The state where you work _____

(b) The type and name of employer

<u>Type</u>	<u>Name</u>
<input type="checkbox"/> 1. Educational Institution	_____
<input type="checkbox"/> 2. Business or Industry	_____
<input type="checkbox"/> 3. Government	_____
<input type="checkbox"/> 4. Non-Profit Organization	_____
<input type="checkbox"/> 5. Self-Employed	_____
<input type="checkbox"/> 6. Other	_____

(c) Your current title or rank _____

(d) Your current salary level:

- | | |
|---|---|
| <input type="checkbox"/> 1. Under \$20,000 | <input type="checkbox"/> 4. \$40 - \$50,000 |
| <input type="checkbox"/> 2. \$20 - \$30,000 | <input type="checkbox"/> 5. \$50 - \$60,000 |
| <input type="checkbox"/> 3. \$30 - \$40,000 | <input type="checkbox"/> 6. Over \$60,000 |

(e) How much is your current position related to the field of study of your graduate program?

- 1. Directly or closely related
- 2. Somewhat related
- 3. Not at all related

(3) Please describe the first position you obtained after finishing graduate school and your first employer?

(a) The State where you worked _____

(b) The type and name of employer:

<u>Type</u>	<u>Name</u>
___ 0. Same as current employer	
If not the same as current employer, please indicate:	
___ 1. Educational Institution	_____
___ 2. Business or Industry	_____
___ 3. Government	_____
___ 4. Non-Profit Organization	_____
___ 5. Self-Employed	_____
___ 6. Other	_____

(c) Initial title or rank _____

(d) Starting salary

___ 1. Under \$15,000	___ 5. \$30 - \$35,000
___ 2. \$15 - \$20,000	___ 6. \$35 - \$40,000
___ 3. \$20 - \$25,000	___ 7. Over \$40,000
___ 4. \$25 - \$30,000	

(e) How much was your first position related to the field of study of your graduate program?

___ 1. Directly or closely related
___ 2. Somewhat related
___ 3. Not at all related

Additional Information:

Please attach a resume if you have one available.

Please list any major publications, research, awards or patents:

 **New Jersey Department of Higher Education**
Office of Student Assistance
CN 540
Trenton, New Jersey 08625