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## ABSTRACT

This publication describes the characteristics of a database developed from a Fall 1992 survey of graduate students and post-doctorates in science and engineering. The survey universe included 333 doctorate-granting institutions and 275 master's-granting institutions. Section 1 offers general notes on data limitations and availability and a summary of general findings. Section 2 presents a description of the survey methodology and response analysis. Section 3 lists the institutions surveyed by degree level, and identifying codes. Section 4 displays copies of the survey instruments and summary questionnaire facsimiles containing data for all departments or for selected groups of departments. The facsimiles present data for all institutions, by broad science and engineering field, and summary statistics for doctorate-granting institutions, master's-granting institutions, and other selected groups of institutions. Highlights of the data include the following: (1) 1992 showed a 4 percent increase over 1991 in graduate students enrolled in master's and doctoral programs in science, engineering, and health fields; (2) the number of women enrolled in science and engineering continued to rise more quickly than the number of men: women increased by 6 percent and men by a little less than 3 percent; and (3) numbers of social science students and earth, atmospheric, and ocean science students increased the most rapidly. (JB)

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# Survey of Graduate Students and Postdoctorates in Science and Engineering

Fall 1992

Technical Notes and Data Summaries

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Division of Science Resources Studies  
Directorate for Social, Behavioral and Economic Sciences



National Science Foundation

NSF 94-320



# **Survey of Graduate Students and Postdoctorates in Science and Engineering**

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**Fall 1992**

Technical Notes and Data Summaries

J.G. Huckenpöhler, Project Monitor

Division of Science Resources Studies  
Directorate for Social, Behavioral and Economic Sciences



**National Science Foundation**

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## ACKNOWLEDGMENTS

The fall 1992 Survey of Graduate Students and Postdoctorates in Science and Engineering was guided by J.G. Huckenpöhler, Ph.D., Science Resources Analyst, Division of Science Resources Studies, Science and Engineering Education and Human Resources Program (EDU), National Science Foundation, under the direction of Mary J. Golladay, Ph.D., Program Director, EDU. The National Institutes of Health cosponsored the survey.

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# CONTENTS

<i>Section</i>	<i>Page</i>
Acknowledgments .....	iii
I. General notes .....	1
Data summary .....	5
II. Technical notes .....	7
III. List of institutions included in the fall 1992 survey .....	23
IV. Instructions, survey instruments, and summaries .....	33

# SECTION I. GENERAL NOTES

The data described in this report were collected in the 21st annual National Science Foundation/National Institutes of Health (NSF/NIH) Survey of Graduate Students and Postdoctorates in Science and Engineering, covering fall 1992. This publication describes the survey and characteristics of the database. The survey universe is composed of all U.S. institutions with departments or programs offering courses of study at the postbaccalaureate level in any science and engineering (S&E) field. Medical schools and other specialized institutions in health-related fields with postdoctoral programs or S&E master's or doctoral programs are also included. The 1992 survey universe included 333 doctorate-granting institutions and 275 master's-granting institutions.

Section II presents a description of the survey methodology and response analysis. Section III lists the institutions surveyed, by degree level, along with their identifying Federal Interagency Committee on Education (FICE) codes.

Section IV displays copies of the survey instruments, along with summary questionnaire facsimiles containing data for all departments or for selected groups of departments. The facsimiles present data for all institutions, by broad science and engineering field, and summary statistics for doctorate-granting institutions, master's-granting institutions, and other selected groups of institutions. Detailed data are available in several publications. *Selected Data on Graduate Students and Postdoctorates in Science and Engineering* (NSF 94-301) includes tables summarizing results on all topics covered by the questionnaire.

Because of the large number of tables (more than 650 in 1992) generated on the basis of graduate S&E enrollment data, it is not feasible to include the full set of tables in a general-audience publication. To meet the needs of those interested in more detailed data of a specific type, NSF has developed a series of "Supplementary Data Releases" focusing on specific data topics. The 18 pamphlets available are listed on the order blank provided at the back of this book.

Tables in these publications showing data for doctorate-granting institutions include all institutions

with any school (medical school, dental school, etc.) or branch campus that granted S&E doctorates for all years in which such degrees were offered. This definition differs from that used by the National Center for Education Statistics (NCES), which considers only those institutions that granted "significant numbers" of doctoral degrees to be doctorate-granting institutions.

## DATA LIMITATIONS

In any analysis of the data in these publications, the following definitions and limitations should be kept in mind.

- In fall 1992 the definitions of foreign students and U.S. citizens were modified to match those used by the Department of Education's National Center for Education Statistics (NCES) and the Institute of International Education. In previous years permanent residents were counted with foreign students, but in fall 1992 permanent residents were included with U.S. citizens.
- In tables showing full-time graduate enrollment by source of support, "institutional support" includes those students receiving their primary support from State and local government sources as well as from their institutions.
- "Other U.S. sources" includes students supported by industrial firms, nonprofit institutions (independent research institutes, professional societies, philanthropic foundations, etc.), and all other sources of support originating within the United States. However, "Other U.S. sources" does not include loans, family money, or personal savings used by students supporting themselves. Students supported primarily by foreign industrial firms, as well as by foreign governments, are reported under "foreign sources."
- "Imputation," as defined by NSF, denotes a computerized process that estimates data for



totally or partially nonrespondent institutions based on their own data from earlier years, if available, or data from peer institutions. Data can be imputed for an entire institution, a department, or individual cells for which the institution or department was unable to provide actual data. The imputation procedures are described in detail in section II, "Technical Notes."

- Respondent institutions can revise prior-year data as well as current data during the editing process. **Consequently, only the trend data from the current report should be used in historical analyses.**

## DATA AVAILABILITY

Data published in these reports are also available on diskettes and in machine-readable form on magnetic tapes. Single-year or multiyear data tapes are available with data for fall 1975 through fall 1992. Information on tape formats and the years for which they are available, together with prices and instructions for ordering, can be found in the current data user guide, *Guide to the Data Files from the National Science Foundation's Annual Surveys of Academic Science and Engineering*. To obtain a copy of the guide, contact Dr. J.G. Huckenpöhler, who can also supply further information on the Survey of Graduate Students and Postdoctorates in Science and Engineering. His address and telephone number are—

Science and Engineering Education and  
Human Resources Program  
National Science Foundation  
4201 Wilson Boulevard, Suite 965  
Arlington, VA 22230

(703) 364-1774

E-mail: [jhuckenp@nsf.gov](mailto:jhuckenp@nsf.gov)

Selected data items for individual doctorate-granting institutions are available on computer-generated institutional profiles. These profiles cover data from this survey as well as data collected in NSF's other academic S&E surveys covering research and development (R&D) expenditures and Federal support to academic institutions. Institutional profiles for any institution or group of institutions can be

ordered by FICE code (listed in section III) through Mr. Richard Bennof. He can be reached at—

Science and Engineering Activities Program  
National Science Foundation  
4201 Wilson Boulevard, Suite 965  
Arlington, VA 22230

(703) 306-1772

E-mail: [rbennof@nsf.gov](mailto:rbennof@nsf.gov)

Institutional planners can now obtain data from several academic S&E resources on CD-ROM compact disc. The compact disk contains the Computer Aided Science Policy Analysis and Research (CASPAR) database system, which is an easy-to-use tool for the retrieval and analysis of statistical data on academic science and engineering resources. CASPAR provides an extensive and growing data library with multiyear statistics on the state of higher education in general and on academic S&E resources specifically. This data library is based on a set of standard institutional and field-of-science definitions across the multiple sources used to develop the database. The CASPAR program includes built-in help capabilities to facilitate the use and interpretation of the data.

CASPAR data are drawn from a number of sources. All data are available for individual institutions, by State, and at the national level. Longitudinal data from surveys of universities and colleges conducted by the NSF Division of Science Resources Studies include the R&D Expenditures Survey and the Federal Support Survey besides the Graduate Student Survey. Data from the surveys of universities and colleges conducted by NCES include Earned Degrees, Opening Fall Enrollment, Faculty Salaries, Tenure and Fringe Benefits, and Financial Statistics. Data from other sources include the National Research Council Doctorate Program Ratings. For additional information on CASPAR, contact—

Quantum Research Corp.  
Attn: CASPAR  
7315 Wisconsin Avenue, Suite 631W  
Bethesda, MD 20814

# DATA SUMMARY

- In fall 1992 495,397 graduate students were enrolled in master's and doctoral programs in the science, engineering, and health fields. This total represents a 4-percent increase from the fall 1991 figure. The increase was 3 percent in the engineering fields and 4 percent in the science fields.
- Of all science fields social science students and Earth, atmospheric, and ocean science students increased the most rapidly (almost 6 percent each). Growth was slowest in the agricultural sciences, with an increase of slightly more than 1 percent. The social sciences continued to be the most popular field in the sciences, with 85,824 graduate students or more than one-fourth of the total. Nearly one-third of the engineering graduate students, 36,272, were enrolled in electrical engineering.
- Graduate students enrolled full-time numbered 323,399 and accounted for 65 percent of the total. The number of graduate students enrolled full-time increased at a faster rate from 1991 to 1992 than did those enrolled part-time (almost 5 percent compared with 3 percent).
- The number of women enrolled in graduate S&E programs continued to rise more rapidly than the number of men, reaching 40 percent of the total. Women increased by 6 percent, whereas men increased by a little less than 3 percent. Women continued to make up the majority of those enrolled in psychology and the health fields but accounted for only 14.5 percent of engineering graduate students.
- Foreign students, at almost 23 percent of the total, increased by less than 1 percent, probably due to a change in the definition of foreign students. In previous years permanent residents were counted with foreign students, but beginning in fall 1992 permanent residents were included with U.S. citizens to conform to data collected by other sources. This definitional shift may explain why students with U.S. citizenship increased by more than 5 percent in 1992 but increased by only 3 percent in 1991. Foreign students were most heavily concentrated in the physical sciences and in engineering, making up almost 36 percent and 35 percent of the total, respectively. Foreign students also made up about one-third of all graduate students in the mathematical sciences and computer sciences.
- At almost 40 percent of the full-time total, academic institutions remained the major source of support for full-time graduate students. Self-supported students (including those supported by loans, family money, or personal savings) made up a little more than 31 percent of the full-time total. The Federal Government supported slightly more than 20 percent.
- Enrollment in doctorate-granting institutions, at 427,792, represented 86 percent of all graduate students. This percentage has varied only slightly since 1975. Nevertheless, master's-granting institutions accounted for more than one-eighth of all graduate students reported and grew by 5 percent from fall 1991 to fall 1992, compared with a 4-percent growth in enrollment at doctorate-granting institutions.

## SECTION II. TECHNICAL NOTES

### THE SURVEY UNIVERSE

The data collected in the fall 1992 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSPSE) represent national estimates of graduate enrollment and postdoctoral employment at the beginning of academic year 1992-93 in all academic institutions in the United States that granted doctorate or master's degrees in any science or engineering field. Included are data for all branch campuses, affiliated research centers, and separately organized components such as medical or dental schools, schools of nursing, public health, etc. The survey universe consisted of 727 reporting units at 608 graduate institutions. Included were 275 master's-granting institutions and 452 reporting units associated with 333 doctorate-granting institutions.

The National Science Foundation has collected data on graduate science and engineering (S&E) enrollment and postdoctoral appointees since 1966. From fall 1966 through fall 1971, data from a limited number of doctorate-granting institutions were collected through the NSF Graduate Traineeship Program, which requested data only on those S&E fields supported by NSF. Beginning with the fall 1972 survey, this data collection effort was assigned to the Universities and Nonprofit Institutions Studies Group and was gradually expanded during the period 1972-75 to include additional S&E fields as well as all institutions known to have programs leading to the master's or doctorate degree. Because of this expansion, data for 1974 and earlier years are not strictly comparable with 1975 and later data. Table II-1 shows the number of institutions, reporting units, and departments at each level included in the data, as well as the total enrollment reported for each year between 1966 and 1992. No attempt has been made to inflate the data for 1966-74 to reflect universe totals.

Beginning with the 1984-85 academic year, master's-granting institutions were surveyed on a sample basis. The fall 1988 survey included the entire survey population for the first time since 1983-84. For each year since 1988, any institutions that begin S&E master's or doctoral programs are added to the survey universe and any that close all their S&E graduate programs are deleted. (See "Survey Methodology," below.)

Tables II-2 and II-3 present data on departmental coverage by S&E field for doctorate-granting and master's-granting institutions for each year in the survey.

### THE SURVEY INSTRUMENTS

The Departmental or Program Data Sheet (NSF Form 812) on which data were reported in fall 1992 was identical to the fall 1991 version, except for changes in the instructions to clarify some data items, most notably the definitions of postdoctoral appointees; first-year, full-time graduate students; and sources of support for full-time students. Furthermore, in fall 1992 the definitions of foreign students and U.S. citizens were modified to match those used by the Department of Education's National Center for Education Statistics (NCES) and the Institute of International Education. In previous years permanent residents were counted with foreign students, but in fall 1992 permanent residents were included with U.S. citizens.

Each survey package also included (1) a flier explaining NSF's academic S&E surveys; (2) a computer-generated List of Departments or Programs (NSF Form 811) specific to each institution surveyed and based on the departments known to exist in the previous survey cycle; (3) a "crosswalk" showing NCES instructional program codes corresponding to each S&E field as defined by NSF; (4) a "How To Avoid Common Survey Errors" sheet with guidelines for avoiding the most common mistakes made in the Graduate Student Survey; and (5) a postcard acknowledging receipt of the survey and requesting the respondent to indicate changes in coordinator name, address, or telephone number.

### SURVEY METHODOLOGY

The survey packages were mailed out by Nov. 12, 1992. The final survey universe consisted of 727 responding units at 608 institutions.

The acknowledgment postcard requested that institutional coordinators indicate how the data were collected, whether the data were maintained centrally or collected from individual departments, and whether they were derived from a computerized database or

were hand tabulated. Of the 727 responding schools surveyed, coordinators at 697 units, or 96 percent, have provided this information over the past 6 years. The responding coordinators indicated the following distribution of data sources:

Schools reporting data sources	N = 697	Percent = 95.9
Computerized central records	76	105
Automated with departmental input	18	2.5
Hand-tabulated at the institutional level	49	6.7
Hand-tabulated at the departmental level	192	26.4
Combination of sources	362	49.8

This pattern is similar to that for 1991. This year the number of schools using computerized systems to assemble the requested data increased as did those using automated systems with departmental input and those hand tabulating data at the department level. The number of schools hand tabulating data at the institution level remained relatively the same as last year, whereas those using a combination of data sources decreased.

Institutional coordinators were asked to review the departmental listing provided on the Form 811, to indicate any changes in their departmental structure such as departments newly formed, phased out, split, or merged, and to check off any departments that had neither graduate students nor postdoctorates and for which Form 812s would therefore not be submitted. The revised Form 811s were returned to the data processing contractor for use as a checklist in tracking departmental responses.

A Form 812 was completed for each department either centrally or at the departmental level and was returned to the data processing contractor for data entry, editing, and tabulation. Arithmetic errors, inconsistencies between items, and sharp year-to-year fluctuations were referred to the institutional coordinators for correction or clarification.

## THE RESPONSE RATE

Of the 727 responding units included in the fall 1992 survey, 726, or 99.9 percent, were able to provide at least partial data, distributed as follows:

Highest degree granted	Number surveyed	Number responding	Percentage responding
Doctorate and master's	727	726	99.9
Doctorate	452	451	99.8
Master's	275	275	100.0

At the departmental level 10,604 departments responded, or 97.0 percent of the 10,936 departments surveyed. This includes 9,066 departments providing complete responses, or 82.9 percent of the total. A total of 332 departments, or 3.0 percent of the departmental total, required complete imputation, and 1,538, or 14.1 percent, had one or more data cells imputed. Table II-4 presents the response rates for earlier years for comparison.

Missing data for partially nonrespondent departments were imputed using the departments' previous year's data, where available, or data from peer institutions in cases where data had not been reported the previous year. Data for nonrespondent departments (departments that did not provide any data) were imputed using data from the previous year, where available. For the two nonrespondent departments that were new to the survey, data could not be imputed. The number of departments in doctorate-granting and master's-granting institutions that required total or partial imputation and the numbers and proportions of full-time and part-time graduate students and postdoctorates imputed are shown in tables II-5 through II-8. In 1992 imputation rates for graduate students in master's-granting institutions were slightly higher than for those in doctorate-granting institutions.

## CHANGES IN DATA ITEMS

Although NSF has attempted to maintain consistent trend data, some modifications in the survey questionnaire have been made to respond to changing issues over the past 15 years. As a result some data items are not available for all institutions in all years.

Whenever a new item has been added to the questionnaire, it has been NSF's standard policy to allow the respondents 1 year's leadtime to convert their data collection systems before incorporating the new data into the survey; the question is labeled

“optional” in the first year. Thus, whereas information on racial/ethnic background was first added to the survey form in 1979, publishable data were first obtained in 1980. Major changes in the data collected are as follows:

- From 1975 through 1977, data for master’s-granting institutions were collected on a short form (i.e., an abbreviated form of the survey) that did not collect data on sex or citizenship of graduate students, nor any data on postdoctoral appointees. In 1978 a similar questionnaire was sent to doctorate-granting institutions, but master’s-granting institutions were not surveyed. The 1978 figures shown in the tables for master’s-granting institutions represent estimates based on 1977 and 1979 data. Beginning in 1979 the long form (i.e., the full-scale survey form) was sent to both doctorate-granting and master’s-granting institutions.
- Distribution by sex was originally requested only for full-time graduate students at doctorate-granting institutions. Beginning in 1976 master’s-granting institutions were requested to provide data on all graduate students by sex, and in 1977 similar data were requested for all graduate students in all institutions. The short form used in the 1978 survey did not request any information on sex; figures in the tables represent estimates based on 1977 and 1979 data.
- Citizenship data were collected only for graduate students enrolled full-time in doctorate-granting institutions through 1977. No citizenship data were requested on the short form used for master’s-granting institutions in 1975 through 1977 and for doctorate-granting institutions in 1978. Data on citizenship of all full-time graduate students are available beginning in 1979 and on those enrolled part-time since 1983.
- As noted above, racial/ethnic data were first requested in 1979 and became a standard item on the questionnaire in 1980. However, imputation rates for this item are still higher than for other data on the questionnaire, as shown in tables II-6 and II-8.

- “Fellowships and traineeships” were combined on one line until 1979, when separate data on the two mechanisms were first collected.
- “Other nonfaculty research staff with doctorates” were combined with postdoctoral appointees until 1979.
- Separate data on students receiving their primary support from the U.S. Department of Agriculture were first requested in 1985.

## DATA REVISIONS

During the fall 1988 survey cycle, the criteria for including departments in the survey universe were tightened, and all departments surveyed were reviewed. Those departments not primarily oriented toward granting research degrees were no longer considered to meet the definition of science and engineering. As a result of this review, it was determined that a number of departments, primarily in the field of “Social sciences, n.e.c.” (not elsewhere classified), were engaged in training primarily teachers, practitioners, administrators, or managers rather than researchers; these departments were deleted from the database. This process was continued during the fall 1989, 1990, 1991, and 1992 survey cycles and expanded to ensure trend consistency for the entire 1975–92 period. As a result, total enrollments and social science enrollments for all years were reduced. The net effect of adjustments over the years is shown in table II-9.

The definition of “medical schools” was revised during the fall 1992 survey cycle to include only those institutional components that are members of the Association of American Medical Colleges. Tables generated after the fall 1992 survey differ from their counterparts in earlier years in that they exclude schools of nursing, public health, dentistry, veterinary medicine, and other health-related disciplines, and should not be compared with tables from earlier years.

# TECHNICAL TABLES

<i>Table</i>	<i>Page</i>
II-1. The NSF data collection series: 1966–92 .....	12
II-2. Science and engineering departmental population at doctorate-granting institutions by field: 1984–92 .....	13
II-3. Science and engineering departmental population at master’s-granting institutions by field: 1984–92 .....	15
II-4. Departmental response rates: 1975–92 .....	17
II-5. Imputation for nonresponse at doctorate-granting institutions by area of science and engineering and enrollment status: 1992 .....	18
II-6. Imputed data for all departments at doctorate-granting institutions: fall 1992 .....	19
II-7. Imputation for nonresponse at master’s-granting institutions by area of science and engineering and enrollment status: 1992 .....	20
II-8. Imputed data for all departments at master’s-granting institutions: fall 1992 .....	21
II-9. Comparison of graduate enrollment data as originally published and as modified through the fall 1992 Graduate Student Survey cycle: 1975–1992 .....	22

Table II-1. The NSF data collection series: 1966-92

Series and year	Number of institutions surveyed	Number of reporting units	Number of departments			Graduate enrollment in surveyed fields		
			Total	Master's	Doctorate	Total	Full-time	Part-time
<b>A. Graduate Traineeship Program</b>								
1966 .....	204	204	2,866	441	2,425	169,303	124,255	45,048
1967 .....	209	209	3,014	434	2,580	179,622	133,972	45,650
1968 .....	219	219	3,190	454	2,736	184,759	140,714	44,045
1969 .....	224	224	3,354	460	2,894	196,341	147,515	48,826
1970 .....	227	227	3,544	473	3,071	201,918	153,250	48,668
1971 .....	224	249	3,397	407	2,990	214,680	164,764	49,916
<b>B. Survey of Graduate Science and Engineering Students and Postdoctorates 1/</b>								
<b>Doctorate institutions</b>								
1972 2/ .....	260	328	4,593	780	3,813	210,895	161,329	49,566
1973 .....	254	336	6,543	862	5,681	214,787	161,858	52,929
1974 .....	279	369	7,496	1,409	6,087	260,970	191,246	69,724
1975 .....	303	400	7,802	1,622	6,180	291,947	206,797	85,150
1976 .....	311	409	7,892	1,671	6,221	295,526	210,117	85,409
1977 .....	313	416	8,112	1,794	6,318	303,448	212,576	90,872
1978 .....	311	420	8,150	1,759	6,391	299,971	209,380	90,591
1979 .....	329	447	8,353	1,863	6,490	312,816	216,801	96,015
1980 .....	328	446	8,458	1,913	6,545	322,846	223,012	99,834
1981 .....	328	444	8,397	1,916	6,481	329,702	226,921	102,781
1982 .....	327	444	8,250	1,899	6,351	336,221	229,993	106,228
1983 .....	327	443	8,139	1,877	6,262	343,071	236,676	106,995
1984 .....	324	444	8,175	1,880	6,295	346,431	237,460	108,971
1985 .....	324	440	8,292	1,915	6,377	356,022	241,605	114,417
1986 .....	324	441	8,366	1,930	6,436	367,163	250,470	116,693
1987 .....	329	448	8,495	1,942	6,553	372,461	254,865	117,596
1988 .....	334	454	8,707	1,993	6,714	377,674	259,848	117,826
1989 .....	334	453	8,839	2,014	6,825	385,025	267,554	117,471
1990 .....	334	454	8,967	2,056	6,911	398,405	275,262	123,143
1991 .....	333	453	9,138	2,078	7,060	411,296	286,756	124,540
1992 .....	333	452	9,329	2,070	7,259	427,792	299,753	128,039
<b>Master's institutions</b>								
1975 3/ .....	283	283	1,224	1,224	N/A	37,711	13,692	24,019
1976 .....	285	285	1,242	1,242	N/A	39,234	13,998	25,236
1977 .....	289	289	1,211	1,211	N/A	43,608	15,286	28,322
1978 4/ .....	2	2	18	18	N/A	45,216	15,692	29,524
1979 .....	301	301	1,374	1,374	N/A	47,178	16,288	30,890
1980 .....	299	299	1,388	1,388	N/A	47,047	16,843	30,204
1981 .....	295	295	1,387	1,387	N/A	48,402	16,750	31,652
1982 .....	283	283	1,387	1,387	N/A	48,835	16,225	32,610
1983 .....	283	283	1,388	1,388	N/A	50,977	17,659	33,318
1984 5/ .....	88	88	669	669	N/A	51,747	18,137	33,610
1985 5/ .....	88	88	686	686	N/A	51,920	17,862	34,058
1986 5/ .....	88	88	689	689	N/A	52,175	17,934	34,241
1987 5/ .....	88	88	697	697	N/A	52,897	18,569	34,328
1988 .....	277	277	1,424	1,424	N/A	52,157	18,319	33,838
1989 .....	275	275	1,479	1,479	N/A	55,958	19,065	36,893
1990 .....	276	276	1,516	1,516	N/A	60,538	20,574	39,964
1991 .....	276	276	1,567	1,567	N/A	64,395	21,913	42,482
1992 .....	275	275	1,607	1,607	N/A	67,605	23,646	43,959

- 1/ The name of the survey was changed in 1981 to specify the inclusion of engineering.
- 2/ The 1972 survey of doctorate-granting institutions included selected data items for 1971.
- 3/ The 1976 survey of master's-granting institutions included selected data items for 1975.
- 4/ The 1978 survey did not include master's institutions. Two institutions were subsequently changed from doctorate- to master's-granting. Totals represent estimates based on 1977 and 1979 data.
- 5/ Master's-granting institutions were surveyed on a sample basis from 1984 through 1987.

KEY: N/A = Not applicable

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table II-2. Science and engineering departmental population at doctorate-granting institutions by field: 1984-92

Field	1984	1985	1986	1987	1988	1989	1990	1991	1992
Total, all surveyed fields .....	8,142	8,256	8,326	8,443	8,645	8,768	8,909	9,103	9,329
Total, science/engineering fields .....	5,852	5,932	5,972	6,073	6,245	6,323	6,396	6,547	6,699
Engineering, total .....	1,064	1,102	1,113	1,158	1,185	1,195	1,216	1,250	1,284
Aerospace .....	35	36	36	38	41	41	42	44	48
Agricultural .....	40	42	41	40	40	40	40	40	40
Biomedical .....	42	42	41	46	49	50	51	52	57
Chemical .....	126	126	126	128	129	132	132	137	138
Civil .....	167	174	179	182	185	181	184	190	195
Electrical .....	160	167	167	179	183	188	191	198	204
Engineering science .....	32	34	35	34	35	35	35	36	37
Industrial .....	98	102	103	111	118	124	125	131	135
Mechanical .....	157	166	169	175	176	172	173	176	181
Metallurgical/materials .....	69	73	74	76	78	83	88	95	100
Mining .....	25	26	25	29	29	26	27	28	28
Nuclear .....	29	29	28	27	27	27	26	26	25
Petroleum .....	16	16	16	19	19	19	19	19	19
Engineering, n.e.c. ....	68	69	73	74	76	77	83	78	77
Sciences, total .....	4,788	4,830	4,859	4,915	5,060	5,128	5,180	5,297	5,415
Physical sciences .....	522	522	529	528	532	535	533	543	547
Astronomy .....	32	33	33	33	33	33	33	33	33
Chemistry .....	251	250	251	251	253	255	255	258	258
Physics .....	229	228	230	228	232	235	233	240	242
Physical sciences, n.e.c. ....	10	11	15	16	14	12	12	12	14
Earth, atmospheric, and ocean sciences .....	284	291	292	295	303	305	309	320	321
Atmospheric sciences .....	27	27	27	28	28	28	28	29	29
Geosciences .....	186	188	189	187	191	191	192	199	200
Oceanography .....	33	36	36	37	37	41	41	44	44
Earth, atmos., and ocean sci., n.e.c. ....	38	40	40	43	47	45	48	48	48
Mathematical sciences .....	332	330	334	336	342	346	352	358	366
Computer sciences .....	151	179	191	206	210	213	225	231	241
Agricultural sciences .....	275	275	275	273	275	279	290	299	310
Biological sciences .....	1,745	1,755	1,762	1,786	1,809	1,818	1,819	1,862	1,906
Anatomy .....	118	116	113	114	113	115	106	106	106
Biochemistry .....	180	184	186	187	189	189	183	187	190
Biology .....	212	208	211	214	218	220	225	223	226
Biometry/epidemiology .....	41	44	46	47	48	49	51	56	61
Biophysics .....	30	27	30	31	31	32	31	33	33
Botany .....	106	106	105	106	108	107	103	103	102
Cell biology .....	60	64	73	82	87	88	92	96	103
Ecology .....	23	23	23	22	22	25	26	27	28
Entomology/parasitology .....	46	49	48	47	48	47	48	49	49
Genetics .....	60	60	60	61	64	65	67	72	76
Microbiology .....	230	234	230	232	234	233	237	243	250
Nutrition .....	90	92	93	98	99	99	104	108	112
Pathology .....	148	146	146	149	147	145	145	149	149
Pharmacology .....	170	168	164	164	166	165	162	163	167
Physiology .....	143	143	144	146	146	150	145	146	145
Zoology .....	52	55	56	54	53	51	50	50	48
Biosciences, n.e.c. ....	36	36	34	32	36	38	44	51	61
Psychology .....	336	338	339	347	418	441	453	475	501
Social sciences .....	1,143	1,140	1,137	1,144	1,171	1,191	1,199	1,209	1,223
Agricultural economics .....	51	52	52	51	51	52	52	52	53
Anthropology .....	112	114	112	114	115	116	119	123	125
Economics (except agricultural) .....	184	183	195	187	190	191	190	192	195
Geography .....	96	96	95	95	94	92	93	95	96
History and philosophy of science .....	26	23	22	24	24	23	23	21	19
Linguistics .....	62	63	62	66	69	70	69	71	70
Political science .....	283	281	278	278	291	297	294	297	300
Sociology .....	161	161	158	160	157	163	165	165	165
Sociology/anthropology .....	34	33	34	33	33	32	33	32	32
Social sciences, n.e.c. ....	134	134	139	136	147	155	161	161	168

See explanatory information, if any, and SOURCE(S) at end of table



Table II-2. Science and engineering departmental population at doctorate-granting institutions by field: 1984-92

Field	1984	1985	1986	1987	1988	1989	1990	1991	1992
Total, health fields .....	2,290	2,324	2,354	2,370	2,400	2,445	2,513	2,556	2,630
Anesthesiology .....	82	82	81	80	79	82	83	85	85
Oncology/cancer research .....	27	30	33	32	32	36	37	39	45
Cardiology .....	69	69	69	68	67	67	67	68	69
Dentistry .....	82	64	82	83	83	85	84	82	88
Endocrinology .....	71	70	71	70	72	73	74	74	73
Gastroenterology .....	66	65	65	64	64	64	65	65	66
Hematology .....	70	70	71	71	70	68	67	67	68
Neurology .....	108	109	112	114	119	124	128	133	136
Nursing .....	102	105	111	113	116	117	119	122	127
Obstetrics/gynecology .....	87	89	89	90	91	91	92	92	94
Ophthalmology .....	78	78	77	76	76	77	79	79	79
Otorhinolaryngology .....	68	67	67	67	68	68	70	70	70
Pediatrics .....	101	100	101	105	106	105	107	107	109
Pharmaceutical sciences .....	80	80	81	82	79	81	83	84	89
Preventive medicine/community health .....	141	150	153	154	156	157	164	166	173
Psychiatry .....	93	92	92	94	92	98	101	100	101
Pulmonary disease .....	64	63	64	63	62	63	63	62	64
Radiology .....	114	115	114	117	120	121	126	130	134
Speech pathology/audiology .....	119	123	122	121	122	123	124	125	129
Surgery .....	213	213	214	213	216	216	221	233	235
Veterinary sciences .....	34	33	34	35	36	37	41	41	42
Clinical medicine, n.e.c. ....	287	296	304	305	311	315	331	342	352
Health related, n.e.c. ....	134	141	147	153	163	177	187	190	202

KEY: n.e.c. - Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table II-3. Science and engineering departmental population at master's-granting institutions by field: 1984-92

Field	1984 1/	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, all surveyed fields .....	668	682	685	693	1,408	1,463	1,499	1,560	1,607
Total, science/engineering fields .....	598	610	613	620	1,251	1,300	1,328	1,373	1,408
Engineering, total .....	98	104	106	109	170	185	197	202	204
Aerospace .....	3	3	3	3	3	3	3	2	2
Agricultural .....	0	0	0	0	0	0	0	0	0
Biomedical .....	2	2	2	2	3	3	3	3	3
Chemical .....	5	5	5	5	5	8	8	9	9
Civil .....	16	16	17	18	3	34	34	36	35
Electrical .....	18	18	19	19	36	43	49	48	50
Engineering science .....	4	4	4	4	3	2	2	2	2
Industrial .....	14	15	15	17	26	30	31	33	35
Mechanical .....	14	15	17	16	25	26	28	28	28
Metallurgical/materials .....	4	5	5	5	5	6	7	7	7
Mining .....	3	4	4	4	4	4	4	4	4
Nuclear .....	0	0	0	0	0	0	0	0	0
Petroleum .....	1	2	2	2	2	2	2	2	2
Engineering, n.e.c. ....	14	15	13	14	24	24	26	28	27
Sciences, total .....	500	506	507	511	1,081	1,115	1,131	1,171	1,204
Physical sciences .....	66	66	69	68	135	135	137	140	139
Astronomy .....	0	0	0	0	0	0	0	0	0
Chemistry .....	42	42	43	42	86	88	89	89	89
Physics .....	18	18	18	18	38	34	35	36	35
Physical sciences, n.e.c. ....	6	6	8	8	11	13	13	15	15
Earth, atmospheric, and ocean sciences .....	26	26	26	27	54	55	55	59	63
Atmospheric sciences .....	1	1	1	1	1	1	1	1	1
Geosciences .....	11	11	12	13	32	32	32	35	34
Oceanography .....	3	3	3	4	5	6	6	6	7
Earth, atmos., and ocean sci., n.e.c. ....	11	11	10	9	16	16	16	17	21
Mathematical sciences .....	44	44	43	43	110	114	112	115	117
Computer sciences .....	29	32	35	36	76	80	84	89	93
Agricultural sciences .....	10	10	10	12	29	31	26	27	28
Biological sciences .....	92	93	89	89	189	192	189	192	193
Anatomy .....	0	0	0	0	0	0	0	0	0
Biochemistry .....	3	3	3	4	3	3	3	3	3
Biology .....	53	54	53	51	147	149	147	149	148
Biometry/epidemiology .....	0	0	0	0	0	0	0	1	0
Biophysics .....	0	0	0	0	0	0	0	0	0
Botany .....	6	6	5	5	4	4	4	4	4
Cell biology .....	0	0	0	0	0	0	0	0	0
Ecology .....	3	3	3	3	3	3	3	3	3
Entomology/parasitology .....	0	0	0	0	0	0	0	0	0
Genetics .....	1	1	1	1	1	1	1	1	1
Microbiology .....	4	4	4	4	3	3	2	2	2
Nutrition .....	8	8	8	8	12	12	12	12	14
Pathology .....	2	2	2	2	2	2	2	2	2
Pharmacology .....	1	1	1	1	1	1	1	1	1
Physiology .....	0	0	0	0	0	0	0	0	0
Zoology .....	5	5	3	4	3	3	3	3	3
Biosciences, n.e.c. ....	6	6	6	6	10	11	11	11	12
Psychology .....	67	67	70	71	198	212	225	233	244
Social sciences .....	166	168	165	165	290	296	303	316	327
Agricultural economics .....	3	3	3	2	2	2	2	2	3
Anthropology .....	13	13	12	12	12	12	13	13	13
Economics (except agricultural) .....	25	24	24	23	36	38	37	38	39
Geography .....	15	17	16	16	23	23	24	25	26
History and philosophy of science .....	0	0	0	0	0	0	0	0	0
Linguistics .....	3	4	4	4	5	5	4	6	7
Political science .....	50	50	51	51	110	113	113	115	119
Sociology .....	25	26	27	27	48	48	49	52	53
Sociology/anthropology .....	5	5	4	4	5	4	3	2	2
Social sciences, n.e.c. ....	27	26	24	26	49	51	58	63	65

See explanatory information, if any, and SOURCE(S) at end of table

Table II-3. Science and engineering departmental population at master's-granting institutions by field: 1984-92

Field	1984 1/	1985 1/	1986 1/	1987 1/	1988	1989	1990	1991	1992
Total, health fields .....	70	72	72	73	157	163	171	187	199
Anesthesiology .....	0	0	0	0	1	1	1	1	2
Oncology/cancer research .....	0	0	0	0	0	0	0	0	0
Cardiology .....	1	1	1	1	0	0	0	0	0
Dentistry .....	0	0	0	0	0	0	0	0	0
Endocrinology .....	0	0	0	0	0	0	0	0	0
Gastroenterology .....	0	0	0	0	0	0	0	0	0
Hematology .....	0	0	0	0	0	0	0	0	0
Neurology .....	1	1	1	1	1	1	1	1	1
Nursing .....	13	15	16	16	44	48	50	54	57
Obstetrics/gynecology .....	0	0	0	0	0	0	0	0	0
Ophthalmology .....	0	0	0	0	0	0	0	0	0
Otorhinolaryngology .....	0	0	0	0	0	0	0	0	0
Pediatrics .....	0	0	0	0	0	0	0	0	0
Pharmaceutical sciences .....	3	3	3	3	3	3	3	3	3
Preventive medicine/community health .....	4	4	4	4	5	5	5	7	7
Psychiatry .....	0	0	0	0	0	0	0	0	0
Pulmonary disease .....	0	0	0	0	0	0	0	0	0
Radiology .....	0	0	0	0	0	0	0	0	0
Speech pathology/audiology .....	22	23	22	22	50	52	55	60	61
Surgery .....	0	0	0	0	0	0	0	0	0
Veterinary sciences .....	1	1	1	1	1	1	1	1	1
Clinical medicine, n.e.c. ....	4	4	4	4	4	4	3	3	4
Health related, n.e.c. ....	21	20	20	21	48	48	52	57	63

1/ Number of departments in sampled institutions

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering



**Table II-4. Departmental response rates: 1975-92**

Year	Total	Complete response	Percent	Partial response	Percent	Non-response	Percent
1975 .....	9,162	8,998	98.2	NA	NA	NA	NA
1976 .....	9,275	9,148	98.6	NA	NA	NA	NA
1977 .....	9,513	9,432	99.1	NA	NA	NA	NA
1978 .....	8,242	8,077	98.0	NA	NA	NA	NA
1979 .....	9,796	9,446	96.4	NA	NA	NA	NA
1980 .....	9,930	9,593	96.6	NA	NA	NA	NA
1981 .....	9,917	8,594	86.7	613	6.2	710	7.2
1982 .....	9,776	8,104	82.9	744	7.6	928	9.5
1983 .....	9,663	8,070	83.5	816	8.4	777	8.0
1984 .....	8,748	7,490	85.6	643	7.4	615	7.0
1985 .....	9,025	7,818	86.6	672	7.4	535	5.9
1986 .....	9,097	7,817	85.9	779	8.6	501	5.5
1987 .....	9,254	8,030	86.8	715	7.7	509	5.5
1988 .....	10,295	8,812	85.6	970	9.4	513	5.0
1989 .....	10,318	8,908	86.3	891	8.6	519	5.0
1990 .....	10,463	8,884	84.7	1053	10.1	546	5.2
1991 .....	10,705	9,052	84.6	1186	11.1	467	4.4
1992 .....	10,936	9,066	82.9	1538	14.1	332	3.1

NOTE: Departments providing partial responses were tabulated separately from complete nonrespondents beginning in 1981.

KEY: NA = Not available

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table II-5. Imputation for nonresponse at doctorate-granting institutions  
by area of science and engineering and enrollment status: 1992**

Area of science and engineering	Number of graduate departments		Total in survey			Number imputed			Imputation rate (percent)		
	In universe	Totally imputed	Full-time	Part-time	Postdoc-torates	Full-time	Part-time	Postdoc-torates	Full-time	Part-time	Postdoc-torates
Total, all areas .....	9,329	280	299,753	128,039	33,187	7,201	3,224	1,268	2.4	2.5	3.8
Engineering .....	1,284	28	71,823	36,469	2,344	1,551	706	38	2.2	1.9	1.6
Physical sciences .....	547	9	30,011	3,600	5,772	435	32	8	1.4	0.9	1.5
Earth, atmospheric, and ocean sciences .....	321	7	10,567	3,397	709	292	46	17	2.8	1.4	2.4
Mathematical sciences .....	368	4	13,889	4,001	201	88	40	1	0.6	1.0	0.5
Computer sciences .....	241	4	15,554	13,488	149	263	514	10	1.7	3.8	6.7
Agricultural sciences .....	310	6	8,907	1,984	634	138	27	9	1.5	1.4	1.4
Biological sciences .....	1,906	58	42,769	7,454	13,287	1,150	71	410	2.7	1.0	3.1
Psychology .....	501	29	27,192	10,506	521	1,326	313	17	4.9	3.0	3.3
Social sciences .....	1,223	32	50,272	22,898	407	1,202	405	3	2.4	1.8	0.7
Health fields .....	2,630	103	28,769	24,242	9,163	756	1,070	677	2.6	4.4	7.4

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table II-6. Imputed data for all departments at doctorate-granting institutions: Fall 1992  
 [No. of departments: 1,419 (totally imputed departments: 280)]

ITEM 5 NUMBER OF FULL-TIME GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992. Report each student only once according to the source and mechanism of the largest amount of support received in fall 1992. Students receiving equal support from multiple sources or through multiple mechanisms should be reported only once. When determining the largest source of support, consider all graduate school expenses including tuition, tuition remission, other academic expenses, stipends, and living expenses.

MECHANISMS OF SUPPORT	Line No.	STUDENTS RECEIVING FINANCIAL ASSISTANCE										SELF-SUPPORTED STUDENTS (including loans and family sources) (J)	TOTAL FULL-TIME GRADUATE ENROLLMENT (Sum of (A) through (J)) (K)	
		FEDERAL SOURCES (excluding loans)					NON-FEDERAL SOURCES							
		Department of Defense (A)	HHS		National Science Foundation (D)	Department of Agriculture (E)	Other Federal sources (F)	Institutional support (including State and local government) (G)	Foreign sources (H)	Other U.S. sources (I)				
Graduate Fellowships	(1)	35	60	21	110	6	145	1,249	269	302				2,024
Graduate Traineeships	(2)	7	420	430	4	1	169	366	19	39				1,455
Graduate Research Assistantships	(3)	697	1,000	80	996	140	862	2,714	59	852				6,534
Graduate Teaching Assistantships	(4)		4	4	2	0	16	6,554		104				5,727
Other Types of Support	(5)	658	32	3	7	1	87	1,448	226	616			11,442	13,775
<b>FULL-TIME TOTAL*</b>	(6)	1,397	1,516	538	1,110	148	1,279	12,173	573	1,913			11,442	7,339
*The total on line (6) does not include the total on line (7) for WOMEN.	(7)	132	756	445	234	53	459	5,652	86	578			6,437	5,702

<b>FIRST-YEAR STUDENTS</b>	(8)	Of the students on line (6), column (K), how many are FIRST-YEAR students? (Should not exceed total on line (6))	5,431
<b>FIRST-YEAR WOMEN STUDENTS</b>	(9)	Of the first-year students on line (8), how many are WOMEN?	2,246

\*The total from line (6) should be inserted in item (7) line (1), column (H)

Table II-6. Imputed data for all departments at doctorate-granting institutions: Fall 1992

[No. of departments: 1,419 (totally imputed departments: 280)]

ITEM 6 NUMBER OF PART-TIME GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992	
PART-TIME TOTAL*	
	(1)
	(2)
	3,985
	3,813

\*Of the students on line (1), how many are WOMEN?

\*The total from line (1) should be inserted in item (7), line (2), column (H)

ITEM 7 RACE/ETHNICITY OF FULL-TIME (line (1)) and PART-TIME (line (2)) graduate students in fall 1992	Of the student totals in items 5 and 6, how many belong to the following RACIAL/ETHNIC categories? Be sure to count each student only once.	U S CITIZENS AND PERMANENT RESIDENTS					FOREIGN, temporary visa holders (G)	TOTAL (Sum of (A) through (G)) (H)	
		Black non- Hispanic (A)	Amer Indian/ Alaskan Native (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non- Hispanic (E)			Other, unknown or declined to state (F)
FULL-TIME, column (1), should equal item 5, line (6), column (K)	(1)	348	16	807	1,197	9,326	1,030	5,144	7,339
PART-TIME, column (H), should equal item 6, line (1)	(2)	401	15	846	675	8,547	1,255	1,405	3,985

ITEM 8 NUMBER OF POSTDOCTORATES AND NON-FACULTY RESEARCH STAFF WITH DOCTORATES in fall 1992		POSTDOCTORATES					TOTAL for all sources (A) through (D) (E)	Of the total in (E), how many are FOREIGN? (F)	OTHER NON- FACULTY RESEARCH STAFF WITH DOCTORATES (G)
		SOURCE OF SUPPORT			Non- Federal (D)				
		Fellowships (A)	Traineeships (B)	Research grants (C)					
	(1)	372	380	1,928	1,199	2,717	1,656	121	
Of the total in each cell of line (1), how many are WOMEN?	(2)	117	119	553	322	864	743	51	
Of the total in each cell of line (1), how many hold the M D D O D D S or D V M degree?	(3)	118	190	270	431	927	524	18	

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

**Table II-7. Imputation for nonresponse at master's-granting institutions by area of science and engineering and enrollment status: 1992**

Area of science and engineering	Number of graduate departments		Total in survey			Number imputed			Imputation rate (percent)		
	In universe	Totally imputed	Full-time	Part-time	Postdoctorates	Full-time	Part-time	Postdoctorates	Full-time	Part-time	Postdoctorates
Total, all areas .....	1,607	51	23,646	43,959	99	682	1,148	2	2.9	2.6	2.0
Engineering .....	204	6	2,643	7,112	10	87	20	0	3.3	0.3	0.0
Physical sciences .....	139	3	719	1,166	52	0	3	1	0.0	0.3	1.9
Earth, atmospheric, and ocean sciences .....	63	5	583	1,062	4	39	35	0	6.7	3.3	0.0
Mathematical sciences .....	117	1	774	1,711	0	3	5	0	0.4	0.3	0.0
Computer sciences .....	93	3	2,063	5,291	1	79	41	0	3.8	0.8	0.0
Agricultural sciences .....	28	1	373	345	0	23	31	0	6.2	9.0	0.0
Biological sciences .....	193	4	1,749	2,465	23	48	88	0	2.7	3.6	0.0
Psychology .....	244	10	7,194	8,928	5	186	255	0	2.6	2.9	0.0
Social sciences .....	327	12	3,911	8,743	1	135	310	0	3.5	3.5	0.0
Health fields .....	199	6	3,637	7,136	3	62	360	1	2.3	5.0	33.3

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering



Table II-8. Imputed data for all departments at master's-granting institutions: Fall 1992

[No. of departments: 447 (totally imputed departments: 51)]

MECHANISMS OF SUPPORT	STUDENTS RECEIVING FINANCIAL ASSISTANCE											TOTAL FULL-TIME GRADUATE ENROLLMENT (Sum of (A) through (J)) (K)					
	FEDERAL SOURCES (excluding loans)										SELF-SUPPORTED STUDENTS (including loans and family sources) (J)						
	Department of Defense (A)		National Institutes of Health (B)		Other HHS (C)		National Science Foundation (D)		Department of Agriculture (E)				Other Federal sources (F)		Institutional support (including State and local government) (G)		Foreign sources (H)
Graduate Fellowships	0	0	0	0	0	0	1	3	5	58	0	9	73				
Graduate Traineeships	0	7	21	15	0	0	6	0	66	170	0	28	289				
Graduate Research Assistantships	11	21	15	5	2	0	0	0	223	159	32	29	3,556				
Graduate Teaching Assistantships	4	2	0	0	0	0	0	0	0	0	0	0	294				
Other Types of Support	15	30	36	8	7	300	790	32	32	78	3,813	3,813	727				
<b>FULL-TIME TOTAL*</b>	2	20	14	5	6	163	412	1	25	2,167	2,167	2,167	606				

(8)	Of the students on line (6), column (K), how many are FIRST-YEAR students? (Should not exceed total on line (6)).	1,169
(9)	Of the first-year students on line (8), how many are WOMEN?	580

\*The total from line (6) should be inserted in item (7) line (1) column (H)

Table II-8. Imputed data for all departments at master's-granting institutions: Fall 1992

[No. of departments: 447 (totally imputed departments: 51)]

ITEM 6 NUMBER OF PART-TIME GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992.		(1)	(2)
<b>PART-TIME TOTAL*</b>		1,314	1,130
Of the students on line (1) how many are WOMEN?			

\*The total from line (1) should be inserted in item (7), line (2) column (H)

RACE/ETHNICITY OF FULL TIME (line (1)) and PART-TIME (line (2)) graduate students in fall 1992	U.S. CITIZENS AND PERMANENT RESIDENTS					FOREIGN: temporary visa holders (G)	TOTAL (Sum of (A) through (G)) (H)
	Black non-Hispanic (A)	Amer. Indian/Alaskan Native (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)		
Of the student totals in items 5 and 6, how many belong to the following RACIAL/ETHNIC categories? Be sure to count each student only once.							
FULL TIME, column (H), should equal item 5, line (6), column (K)	130	4	105	126	1,562	559	727
PART TIME, column (H), should equal item 6, line (1)	384	8	215	107	4,818	828	1,314

NUMBER OF POSTDOCTORATES AND NON-FACULTY RESEARCH STAFF WITH DOCTORATES in fall 1992	POSTDOCTORATES						OTHER NON-FACULTY RESEARCH STAFF WITH DOCTORATES (G)
	SOURCE OF SUPPORT			TOTAL for all sources (A) through (E)	Of the total in (E), how many are FOREIGN? (F)	TOTAL for all sources (A) through (E)	
	Federal		Non-Federal (D)				
	Fellowships (A)	Traineeships (B)	Research grants (C)				
<b>TOTAL</b>	0	0	11	3	14	1	4
Of the total in each cell of line (1), how many are WOMEN?	0	0	1	0	1	0	0
Of the total in each cell of line (1), how many hold the M.D., P.O., D.D.S., or D.V.M. degree?	0	0	0	0	0	0	0

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

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**Table II-9. Comparison of graduate enrollment data as originally published and as modified through the fall of 1992 (Graduate Student Survey cycle: 1975-92)**

Year	Total, all institutions			Doctorate-granting institutions			Master's-granting institutions		
	Original total	Revised total	Percent change	Original total	Revised total	Percent change	Original total	Revised total	Percent change
<b>Total graduate enrollment in surveyed fields</b>									
1975 1/	329,202	328,892	-0.1	291,632	292,716	0.4	37,750	36,176	-4.2
1976 ...	334,383	334,128	-0.1	295,138	296,448	0.4	39,245	37,680	-4.0
1977 ...	345,962	345,820	0.2	302,277	303,637	2.9	43,685	42,183	-3.4
1978 2/	NA	345,187	NA	298,788	296,685	0.0	NA	45,216	NA
1979 ...	358,844	358,622	-0.1	311,527	312,098	0.2	47,317	46,526	-3.8
1980 ...	368,390	368,328	-0.1	321,188	321,851	0.2	47,202	46,477	-1.5
1981 ...	376,533	376,326	-0.1	327,904	328,507	0.2	48,629	47,819	-1.7
1982 ...	383,549	383,380	-0.1	334,570	334,697	0.0	48,979	48,683	-0.6
1983 ...	392,376	391,818	-0.1	341,360	341,160	-0.1	51,016	50,658	-0.7
1984 3/	396,449	395,960	-0.2	344,855	344,066	-0.2	51,794	51,594	-0.4
1985 3/	405,432	405,596	0.0	353,666	353,844	0.0	51,736	51,752	0.0
1986 3/	416,442	416,577	0.0	364,234	364,460	0.1	52,208	52,117	-0.2
1987 3/	421,441	422,585	0.3	368,358	370,112	0.5	53,083	52,473	-6.8
1988 ...	425,752	425,932	0.0	373,909	374,275	0.1	51,843	51,657	-0.4
1989 ...	434,861	436,071	0.3	379,521	381,520	0.5	55,340	54,551	-6.8
1990 ...	444,346	454,065	2.2	384,911	394,794	2.6	59,435	59,271	-0.3
1991 ...	475,691	472,950	-0.6	411,296	409,361	-0.5	64,395	63,589	-1.2
1992 ...	495,397	N/A	N/A	427,792	N/A	N/A	67,605	N/A	N/A
<b>Full-Time</b>									
1975 1/	220,123	219,961	-0.1	206,512	206,447	0.0	13,611	13,514	-0.7
1976 ...	223,855	223,705	-0.1	209,856	209,884	0.0	13,999	13,821	-1.3
1977 ...	227,187	227,078	0.0	211,822	211,844	0.0	15,365	15,234	-2.9
1978 2/	NA	225,072	NA	208,636	208,579	0.0	NA	15,692	NA
1979 ...	232,376	232,231	-0.1	215,955	215,715	-0.1	16,421	16,516	0.6
1980 ...	238,868	238,849	0.0	221,912	221,920	0.0	16,956	16,929	-0.2
1981 ...	242,777	242,453	-0.1	225,910	225,733	-0.1	16,867	16,720	-0.9
1982 ...	245,378	245,062	-0.1	229,114	228,430	-0.3	16,264	16,632	2.3
1983 ...	252,846	252,391	-0.2	235,166	234,521	-0.9	17,680	17,870	1.1
1984 3/	254,753	254,277	-0.2	236,554	235,988	-0.2	18,181	18,289	0.6
1985 3/	258,241	258,029	-0.1	240,386	240,082	-0.1	17,855	19,947	11.7
1986 3/	267,075	266,685	-0.1	249,098	248,496	-0.2	17,977	18,189	1.2
1987 3/	271,772	271,646	0.0	253,187	253,069	0.0	18,585	18,557	-0.1
1988 ...	276,225	275,792	-0.2	258,318	258,020	-0.1	17,907	17,772	-0.7
1989 ...	283,849	283,353	-0.2	265,188	264,941	-0.1	18,661	18,412	-1.3
1990 ...	288,981	293,686	1.6	268,864	273,521	1.7	20,117	20,162	0.2
1991 ...	306,869	307,628	-0.3	286,756	285,935	-0.3	21,913	21,693	-1.1
1992 ...	323,399	N/A	N/A	299,753	N/A	N/A	23,646	N/A	N/A
<b>Part-Time</b>									
1975 1/	109,079	108,931	-0.1	85,120	86,269	1.4	23,959	22,662	-5.4
1976 ...	110,528	110,423	-0.1	85,282	86,564	1.7	25,246	23,859	-5.5
1977 ...	118,775	118,742	0.0	90,455	91,793	1.5	28,320	26,949	-4.8
1978 2/	NA	120,115	NA	90,152	90,160	0.0	NA	29,524	NA
1979 ...	126,428	126,391	0.0	95,572	96,381	0.9	30,896	30,010	-2.9
1980 ...	129,522	129,479	-0.0	99,276	99,931	0.7	30,246	29,548	-2.7
1981 ...	133,756	133,873	0.1	101,994	102,774	0.8	31,762	31,099	-2.1
1982 ...	136,171	136,318	0.1	105,456	106,267	0.8	32,715	32,051	-2.0
1983 ...	139,530	139,427	-0.1	106,194	106,639	0.4	33,336	32,788	-1.7
1984 3/	141,714	141,383	-0.2	108,101	108,078	0.0	33,613	33,305	-0.2
1985 3/	147,191	147,567	0.3	113,310	113,762	0.4	33,881	33,805	-0.2
1986 3/	149,367	149,892	0.4	115,136	115,964	0.7	34,231	33,928	-0.9
1987 3/	149,669	150,939	0.9	115,171	117,023	1.6	34,498	33,916	-1.7
1988 ...	149,527	150,140	0.4	115,591	116,255	0.6	33,939	33,885	-0.2
1989 ...	151,012	152,718	1.1	114,333	116,579	2.0	36,679	36,139	-1.5
1990 ...	155,365	160,379	3.2	116,047	121,273	4.5	39,318	39,106	-0.5
1991 ...	167,022	165,322	-1.0	124,540	123,426	-0.9	42,482	41,896	-1.4
1992 ...	171,998	N/A	N/A	128,039	N/A	N/A	43,959	N/A	N/A

1/ The 1976 survey also collected 1975 data from master's-granting institutions.

2/ Master's-granting institutions were not surveyed in 1978.

3/ Includes estimated data for master's-granting institutions, which were surveyed on a sample basis from 1984 through 1987. See Technical Notes for further information.

KEY: NA = Not available  
N/A = Not applicable

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

# SECTION III. LIST OF INSTITUTIONS INCLUDED IN THE FALL 1992 SURVEY

The graduate institutions included in the 1992 survey are listed in alphabetical order by State in tables III-1 and III-2. Table III-1 lists all doctorate-granting institutions in the universe and their separately reported components, with their institutional codes as assigned by the Federal Interagency Committee on Education (FICE). Table III-2 contains the same information for all master's-

granting institutions in the survey universe. Institutional FICE codes are provided for the convenience of those wishing to request institutional profiles (see "General Notes," page 1), for their own or selected peer institutions. These profiles are available only at the institutional level, however; separate profiles are not available for individual components or branch campuses within an institution.

<i>Table</i>	<i>Page</i>
III-1. Doctorate-granting institutions in the fall 1992 survey .....	25
III-2. Master's-granting institutions in the fall 1992 survey .....	29

Table III-1. Doctorate-granting institutions in the fall 1992 survey

FICE CODE		FICE CODE	
	Alabama		Delaware
008695	L Auburn University Graduate School (Main Campus)	001431	L University of Delaware
001051	Graduate School at Montgomery		District of Columbia
001052	The University of Alabama	001437	Catholic University of America
	The University of Alabama at Birmingham	001444	George Washington University
	Graduate School		Graduate School
001055	School of Medicine	001445	Georgetown University
001057	The University of Alabama in Huntsville		Graduate School
	University of South Alabama		School of Medicine
	College of Medicine	001448 H	Howard University
	Graduate School		College of Medicine
	Alaska	001434	Graduate School
029094	L University of Alaska at Fairbanks		The American University
	Arizona		Florida
001081	Arizona State University	001480 H	L Florida A & M University
001082	Northern Arizona University	001481	Florida Atlantic University
001083	L University of Arizona	001469	Florida Institute of Technology
	College of Medicine	009635	Florida International University
	Graduate School	001489	L Florida State University
	Arkansas	001509	Nova University
001108	L University of Arkansas	003954	University of Central Florida
001109	University of Arkansas - Med Sci Campus	001535	University of Florida
	California		College of Medicine
001122	Biola University	001536	College of Nursing
011881	Calif Sch of Prof Psych - Fresno		Graduate School
010013	Calif Sch of Prof Psych - Los Angeles	001537	University of Miami
011117	Calif Sch of Prof Psych - San Diego		Graduate School
009844	Calif Sch of Prof Psych-Berkeley/Alameda		School of Medicine
001139	Calif State Univ at Long Beach	001537	University of South Florida
012154	California Institute of Integral Studies		College of Medicine
001131	California Institute of Technology		Graduate School
000166	Charles R. Drew Univ of Medicine & Sci		Georgia
001169	Claremont Univ Center & Graduate School	001559 H	Clark Atlanta University
001200	Fuller Theological Seminary	001564	Emory University
001205	Golden Gate University		Graduate School
001218	Loma Linda University	008723	School of Medicine
	Graduate School	001574	Georgia Institute of Technology
029225	School of Medicine	005010	Georgia State University
010441	Pacific Graduate School of Psychology	001579	Institute of Paper Science & Technology
001151	RAND Graduate School of Policy Studies	001579	Medical College of Georgia
001326	San Diego State University	008724	Mercer University
001305	Santa Clara University		Graduate School
	Stanford University		School of Medicine
	Graduate School	029297 H	Southern School of Pharmacy
029092	School of Medicine	001598	Morehouse School of Medicine
008846	The Fielding Institute		L University of Georgia
001158	The Wright Institute		Hawaii
001310	US International University	001610	L University of Hawaii at Manoa
001312	US Naval Postgraduate School		Graduate School
001313	L University of Calif at Berkeley		John A. Burns School of Medicine
001313	L University of Calif at Davis		Idaho
001315	L University of Calif at Los Angeles		Idaho State University
	Graduate School	001626	L University of Idaho
	School of Medicine		Illinois
001316	L University of Calif at Riverside	001657	Chicago College of Osteopathic Medicine
001317	L University of Calif at San Diego	029230	Chicago School of Prof Psych
	Graduate School	001671	De Paul University
	School of Medicine	029259	Forest Institute of Professional Psych
001319	L University of Calif at San Francisco	001691	Illinois Institute of Technology
001320	L University of Calif at Santa Barbara	001692	Illinois State University
001321	L University of Calif at Santa Cruz	001710	Loyola University of Chicago
001314	L University of California, Irvine		Grad Sch at the Medical Center
	College of Medicine		Graduate School
	Graduate School	001737	Stritch School of Medicine
001328	University of Southern California	001739	Northern Illinois University
	Graduate School		Northwestern University
	School of Medicine		Graduate School
001329	University of the Pacific		Medical School
	Colorado	009800	Rush University
001348	Colorado School of Mines	001758	Southern Illinois Univ at Carbondale
001350	L Colorado State University	001659	Univ of Health Sci/The Chicago Med Sch
008717	University of Colorado	001775	L Univ of Illinois at Urbana-Champaign
	Graduate School at Boulder	001774	University of Chicago
	Graduate School at Colorado Springs		Graduate School
	Graduate School at Denver	001776	L University of Illinois at Chicago
	Health Sciences Center		Pritzker School of Medicine
001371	University of Denver		Graduate School
001349	University of Northern Colorado		Indiana
	Connecticut		Indiana State University
008718	University of Connecticut	001786	Indiana University
	Graduate School	001807	Fort Wayne Campus
	School of Medicine	008731	Graduate School-Bloomington
001424	Wesleyan University		Indiana University-Purdue University
001426	Yale University		School of Dentistry
	Graduate School		School of Medicine
	School of Medicine	008732	L Purdue University
	School of Nursing		Graduate School

Table III-1. Doctorate-granting institutions in the fall 1992 survey

FIGE CODE		FIGE CODE	
	Indiana, continued		Michigan
001840	Purdue University Calumet University of Notre Dame	002238	Andrews University
	Iowa	002243	Central Michigan University
001869	L Iowa State University	002290	L Michigan State University
011113	Maharishi International University	002292	Michigan Technological University
001855	Univ of Osteopathic Med & Health Sci	002307	Oakland University
001892	University of Iowa College of Medicine Graduate School	002323	University of Detroit Mercy
001890	University of Northern Iowa	009091	University of Michigan Graduate School at Ann Arbor Graduate School at Dearborn Medical School at Ann Arbor
	Kansas	002329	Wayne State University Graduate School School of Medicine
001928	L Kansas State University	002330	Western Michigan University
029001	University of Kansas Graduate School Medical Center		Minnesota
001950	Wichita State University	010337	Mayo Graduate School of Medicine
	Kentucky	008761	L University of Minnesota Duluth School of Medicine Graduate School at Duluth Graduate School at Minneapolis Minneapolis Medical School
001960	Spalding University		Mississippi
008744	L University of Kentucky College of Medicine Graduate School	002423	L Mississippi State University
001999	University of Louisville Graduate School School of Medicine	008764	University of Mississippi Graduate School School of Medicine
	Louisiana	002441	University of Southern Mississippi
008745	L Louisiana State University System Graduate School - Univ of New Orleans Medical Center at New Orleans School of Medicine in Shreveport The Graduate School in Baton Rouge		Missouri
002008	Louisiana Tech University	002477	Kirksville College of Osteopathic Med
002020	Northeast Louisiana University	008766	St. Louis University Graduate School School of Medicine
002029	Tulane University Graduate School School of Medicine	002474	The University of Health Sciences
002031	University of Southwestern Louisiana	002516	L University of Missouri - Columbia Graduate School School of Medicine
002032 H	Xavier University	002518	L University of Missouri - Kansas City
	Maine	002517	L University of Missouri - Rolla
002053	L University of Maine	002519	L University of Missouri - St Louis
002050	University of New England Col of Professional & Continuing Studies College of Osteopathic Medicine	002520	Washington University Graduate School School of Medicine
	Maryland		Montana
002077	Johns Hopkins University Graduate School School of Hygiene and Public Health School of Medicine	002532	L Montana State University
029169	Uniformed Serv Univ of the Hlth Sciences	002536	University of Montana
002105	L University of Maryland - Baltimore Cnty		Nebraska
002103	L University of Maryland - College Park	002542	Creighton University Graduate School School of Medicine
002106 H	University of Maryland Eastern Shore	002565	University of Nebraska - Lincoln
002104	L University of Maryland at Baltimore	006895	University of Nebraska Medical Center
	Massachusetts		Nevada
002128	Boston College	002568	L University of Nevada at Reno Graduate School School of Medical Sciences
002130	Boston University Graduate School School of Dentistry School of Medicine School of Public Health		New Hampshire
002133	Brandeis University	002573	Dartmouth College Graduate School School of Medicine
002139	Clark University	002589	L University of New Hampshire
002146	Emerson College		New Jersey
002155	Harvard University Graduate School of Arts & Sciences Harvard Medical School School of Public Health	008770	Fairleigh Dickinson University
002165	Mass College of Pharmacy/Allied Health	002621	New Jersey Institute of Technology
002178	L Massachusetts Institute of Technology	002627	Princeton University
002199	Northeastern University	908771	L Rutgers the State University Graduate School at Camden Graduate School at New Brunswick Graduate School at Newark School of Criminal Justice
002209	Smith College	002632	Seton Hall University
002219	Tufts University Graduate School Sackler Sch of Grad Biomedical Sciences School of Medicine School of Nutrition	002639	Stevens Institute of Technology
008755	L University of Massachusetts Graduate School at Amherst Graduate School at Boston School of Medicine at Worcester	002620	Univ of Med and Dentistry of New Jersey Grad Sch of Biomed Sci/NJ Med School New Jersey Medical School at Newark New Jersey School of Osteopathic Med Robert Wood Johnson Medical School
002161	University of Massachusetts Lowell		New Mexico
002230	Woods Hole Oceanographic Institution	002654	New Mexico Institute of Mining and Tech
002233	Worcester Polytechnic Institute	008773	L New Mexico State University
		002663	University of New Mexico Graduate School School of Medicine

Table III-1. Doctorate-granting institutions in the fall 1992 survey

FICE CODE		FICE CODE	
	New York		Ohio, continued
002666	Adelphi University	008805	University of Cincinnati College of Medicine Graduate School
002887	Albany Medical College	003127	University of Dayton
002668	Alfred University	003131	University of Toledo
004063	CUNY Graduate School and Univ Center	009167	Wright State University
007022	CUNY Herbert H. Lehman College		Oklahoma
007026	CUNY Mt. Sinai Sch of Medicine	008806	L Oklahoma State University
002699	Clarkson University	008807	University of Oklahoma Graduate College Health Sciences Center
002707	Columbia Univ in the City of New York College of Physicians and Surgeons Graduate School	003185	University of Tulsa
003979	Columbia University Teachers College		Oregon
008779	L Cornell University Graduate School Medical School of Medical Sciences	008856	Oregon Grad Inst of Science & Technology
002722	Fordham University	004882	Oregon Health Sciences University
002732	Hofstra University	003210	L Oregon State University
008780	Long Island University Brentwood Center Brooklyn Center C. W. Post Center Rockland Campus Westchester Center	003216	Portland State University
002780	New School for Social Research	003223	University of Oregon
008782	New York Institute of Technology		Pennsylvania
	New York College of Osteopathic Medicine	003237	Bryn Mawr College
002784	New York Medical College	003242	Carnegie-Mellon University
002785	New York University Graduate School School of Medicine Wagner Graduate School of Public Service	003256	Drexel University
008784	Pace University	003258	Duquesne University
002796	Polytechnic University	003271	Hahnemann University
002803	Rensselaer Polytechnic Institute	008810	Indiana University of Pennsylvania
002807	Rockefeller University	003289	Lehigh University
002835	SUNY - Albany	008813	L Pennsylvania State University College of Medicine Graduate School
002836	SUNY - Binghamton	003352	Phila College of Osteopathic Medicine
009554	SUNY - Buffalo Graduate School School of Medicine	003353	Philadelphia Coll of Pharmacy and Sci
002851	SUNY - Coll of Env Science and Forestry	003371	Temple University Graduate School School of Medicine School of Pharmacy
002839	SUNY - Health Sci Ctr at Brooklyn	003398	The Medical College of Pennsylvania
002840	SUNY - Health Sci Ctr at Syracuse	003278	Thomas Jefferson University
009555	SUNY - Stony Brook Graduate School School of Medicine	003378	University of Pennsylvania Graduate School School of Medicine School of Pharmacy
009929	SUNY College of Optometry	008815	University of Pittsburgh Graduate School School of Medicine
002823	Saint John's University	003388	Villanova University
008789	Syracuse University		Rhode Island
002889	Union College	003401	Brown University
002894	University of Rochester Graduate School School of Medicine and Dentistry	003406	Providence College
002903	Yeshiva University Albert Einstein College of Medicine Graduate School	003414	L University of Rhode Island
	North Carolina		South Carolina
002920	Duke University Graduate School School of Medicine	003425	L Clemson University
002923	East Carolina University Graduate School School of Medicine	003438	Medical University of South Carolina
002972	L North Carolina State Univ at Raleigh	008819	University of South Carolina Graduate School Medical School
002974	Univ of North Carolina at Chapel Hill Graduate School School of Medicine		South Dakota
002976	Univ of North Carolina at Greensboro	003470	South Dakota School of Mines and Tech
002978	Wake Forest University Bowman Gray School of Medicine Graduate School	003471	L South Dakota State University
	North Dakota	003474	University of South Dakota Graduate School School of Medicine
009266	L North Dakota State University		Tennessee
008794	University of North Dakota	003487	East Tennessee State University
	Ohio	003506	Meharry Medical College
003009	Air Force Institute of Technology	003509	Memphis State University
008795	Antioch University	003523	Tennessee Technological University
008796	Bowling Green State University	003530	L University of Tennessee at Knoxville
003024	Case Western Reserve University Graduate School School of Medicine	006725	L University of Tennessee, Memphis
003032	Cleveland State University	003535	Vanderbilt University Graduate School School of Medicine
008799	Kent State University		Texas
007737	Medical College of Ohio at Toledo	004948	Baylor College of Dentistry
008800	Miami University	004949	Baylor College of Medicine
029045	NE Ohio Universities College of Medicine	006967	Baylor University
008803	Ohio University College of Osteopathic Medicine Graduate College	003565	East Texas State University
008802	L The Ohio State University College of Medicine Graduate School	003581	Lamar University-Beaumont
010923	Union Institute	003604	Rice University
012310	University of Akron	003606	Sam Houston State University
		003613	Southern Methodist University
		003624	Stephen F. Austin State University
		003632	L Texas A & M University
		003636	Texas Christian University
		009768	Texas College of Osteopathic Medicine
		003644	Texas Tech University Graduate School

Table III-1. Doctorate-granting institutions in the fall 1992 survey

FICE CODE		FICE CODE	
	Texas, continued		Washington
003646	Health Sciences Center	003798	University of Washington
003659	Texas Woman's University		Graduate School
011618	Univ of Texas Hlth Sci Ctr San Antonio		School of Medicine
003657	Univ of Texas Hlth Sci Ctr at Houston	003800	School of Public Health and Comm Med
004952	Univ of Texas MD Anderson Cancer Center		L Washington State University
003660	Univ of Texas Med Branch at Galveston		West Virginia
003656	Univ of Texas SW Medical Ctr at Dallas	003815	Marshall University
003652	Univ of Texas at Arlington		Graduate School
003594	University of Houston-University Park		School of Medicine
003658	University of North Texas	011245	West Virginia School of Osteopathic Med
009741	University of Texas at Austin	003827	L West Virginia University
003661	University of Texas at El Paso		Graduate School
	Utah		School of Medicine
012305	Brigham Young University		Wisconsin
003675	University of Utah	003863	Marquette University
	Graduate School	008296	Medical College of Wisconsin
003677	L Utah State University	003895	L University of Wisconsin - Madison
	Vermont		Graduate School
003696	L University of Vermont	003896	Medical School
	College of Medicine		University of Wisconsin - Milwaukee
	Graduate School		Wyoming
	Virginia	003932	L University of Wyoming
008828	College of William and Mary		OUTLYING AREAS
010338	Eastern Virginia Medical School		Puerto Rico
003749	George Mason University	010724	Caribbean Center for Advanced Studies
003714	Hampton University	003936	Catholic University of Puerto Rico
003717	Institute of Textile Technology	029268	Ponce School of Medicine
003728	Old Dominion University	003944	L Univ of Puerto Rico Mayaguez Campus
003745	University of Virginia	007108	L Univ of Puerto Rico Rio Piedras Campus
	Graduate School	003945	L University of Puerto Rico Med Sci Campus
003735	School of Medicine		
	Virginia Commonwealth University		
003754	Graduate School		
	Medical College of Virginia		
	L Virginia Polytechnic Inst and State Univ		

NOTE: H = Historically Black institution  
 L = Land Grant institution



Table III-2. Master's-granting institutions in the fall 1992 survey

FIGE CODE		FIGE CODE	
	Alabama		Illinois, continued
001002 H L	Alabama A & M University	009333	Sangamon State University
001005 H	Alabama State University	001759	Southern Illinois Univ at Edwardsville
001020	Jacksonville State University	001780	Western Illinois University
001049	Troy State University in Montgomery		
001050 H	Tuskegee University		Indiana
001004	University of Montevallo		
	Alaska	001788	Butler University
029095	University of Alaska Anchorage	001822	Indiana Wesleyan University
029096	University of Alaska Southeast	001830	Rose-Hulman Institute of Technology
		001832	Saint Francis College
		001795	University of Evansville
		001842	Valparaiso University
	Arkansas		Iowa
008701	Arkansas State University		
001101	University of Arkansas at Little Rock	001860	Drake University
001092	University of Central Arkansas	001873	Loras College
		001876	Teikyo Marycrest College
	California		Kansas
001117	Azusa Pacific University		
001143	Calif Poly State Univ at San Luis Obispo	001927	Emporia State University
001144	Calif State Polytechnic Univ at Pomona	001915	Fort Hays State University
001141	Calif State Univ at Dominguez Hills	001926	Pittsburg State University
001137	Calif State Univ at Fullerton	001949	Washburn University of Topeka
001138	Calif State Univ at Hayward		
001140	Calif State Univ at Los Angeles		Kentucky
001142	Calif State Univ at San Bernardino		
001146	Calif State University at Chico	001963	Eastern Kentucky University
001147	Calif State University at Fresno	001976	Morehead State University
001153	Calif State University at Northridge	001977	Murray State University
001150	Calif State University at Sacramento	002002	Western Kentucky University
001157	Calif State University, Stanislaus		
007993	California State Univ - Bakersfield		Louisiana
001164	Chapman University		
001196	Dominican College of San Rafael	002006 H	Grambling State University
001171	Harvey Mudd College	002016	Loyola University in New Orleans
001149	Humboldt State University	002017	McNeese State University
004484	John F Kennedy University	002005	Nicholls State University
011649	Loyola Marymount University	002021	Northwest State University
011460	National University	002024	Southeastern Louisiana University
001249	Occidental College	002025 H L	Southern University A & M College
001257	Pacific States University		
001264	Pepperdine University		Maryland
001154	San Francisco State University		
001155	San Jose State University	002068 H	Coppin State College
001156	Sonoma State University	002072	Frostburg State University
001216	University of La Verne	002076	Hood College
001322	University of Redlands	002078	Loyola College
010395	University of San Diego	002083 H	Morgan State University
001325	University of San Francisco	002099	Towson State University
008716	West Coast University	002102	University of Baltimore
		002108	Washington College
	Colorado		Massachusetts
023562	National Technological University		
	Connecticut	002114	American International College
		002117	Anna Maria College
001378	Central Connecticut State University	002118	Assumption College
001379	Connecticut College	002183	Bridgewater State College
001402	Quinnipiac College	002185	Framingham State College
001406	Southern Connecticut State University	029365	MGH Institute of Health Professions
001409	St. Joseph College	002192	Mount Holyoke College
002804	The Hartford Graduate Center	002188	Salem State College
001414	Trinity College	002210	University of Massachusetts Dartmouth
001416	University of Bridgeport	002226	Western New England College
001422	University of Hartford	002229	Williams College
001397	University of New Haven	002190	Worcester State College
001380	Western Connecticut State University		Michigan
	Delaware	002259	Eastern Michigan University
001428 H L	Delaware State College	002268	Grand Valley State University
		002301	Northern Michigan University
	District of Columbia		Minnesota
001443	Gallaudet University	002336	Bemidji State University
029100 H L	University of the District of Columbia	002360	Mankato State University
		002367	Moorhead State University
	Florida	002380	Saint Mary's College of Minnesota
003955	University of West Florida	002377	St. Cloud State University
	Georgia		Mississippi
001552	Augusta College	002410 H	Jackson State University
001566 H L	Fort Valley State College	002422	Mississippi University for Women
001602	Georgia College		
001572	Georgia Southern University		Missouri
001599	Valdosta State College	002454	Central Missouri State University
001601	West Georgia College	002479 H L	Lincoln University
		002495	Northeast Missouri State University
	Illinois	002496	Northwest Missouri State University
001641	Bradley University	002501	Southeast Missouri State University
001694	Chicago State University	002503	Southwest Missouri State University
001674	Eastern Illinois University		
009145	Governors State University		Montana
001693	Northeastern Illinois University	002531	Montana College Mineral Sci & Technology
001749	Roosevelt University		

Table III-2. Master's-granting institutions in the fall 1992 survey

FICE CODE		FICE CODE	
	Nebraska		Pennsylvania, continued
002554	L University of Nebraska - Omaha	003326	Shippensburg University of Pennsylvania
002551	University of Nebraska at Kearney	003327	Slippery Rock University of Pennsylvania
	Nevada	003367	St Joseph's University
002569	University of Nevada at Las Vegas	003370	Swarthmore College
	New Hampshire	003384	University of Scranton
002586	Rivier College	003328	West Chester University of Pennsylvania
	New Jersey	003313	Widener University
002603	Drew University	003394	Wilkes University
002622	Kean College of New Jersey		Rhode Island
002616	Monmouth College	003407	Rhode Island College
002617	Montclair State College		South Carolina
002642	Trenton State College	003434	Furman University
002625	William Paterson College	003428	University of Charleston, South Carolina
	New Mexico	003456	Winthrop College
008772	Eastern New Mexico University		Tennessee
002653	New Mexico Highlands University	003478	Austin Peay State University
	New York	003490	H Fisk University
004766	CUNY Bernard Baruch College	003510	Middle Tennessee State University
002687	CUNY Brooklyn College	003522	H L Tennessee State University
002688	CUNY City College	003529	L University of Tennessee at Chattanooga
029040	CUNY College of Staten Island		Texas
002689	CUNY Hunter College	003537	Abilene Christian University
002693	CUNY John Jay College of Crim Justice	003541	Angelo State University
002690	CUNY Queens College	011161	Corpus Christi State University
002704	College of New Rochelle	003578	Incarnate Word College
002705	College of St Rose	003592	Midwestern State University
002710	Cooper Union	003630	H L Prairie View A & M University
002737	Iona College	003615	Southwest Texas State University
002739	Ithaca College	003623	St. Mary's University
002758	Manhattan College	003625	Sul Ross State University
002765	Marist College	003631	Tarleton State University
002788	Niagara University	003639	Texas A & I University
002798	Pratt Institute	003642	H Texas Southern University
002806	Rochester Institute of Technology	003599	The University of Texas - Pan American
008786	Russell Sage College	003647	Trinity University
002841	SUNY College at Brockport	011854	University of Central Texas
002842	SUNY College at Buffalo	013231	University of Houston - Victoria
002843	SUNY College at Cortland	011711	University of Houston at Clear Lake City
002844	SUNY College at Fredonia	010115	University of Texas at San Antonio
002845	SUNY College at Geneseo	029164	University of Texas at Tyler
002846	SUNY College at New Paltz	009930	University of Texas of the Permian Basin
002847	SUNY College at Oneonta	003665	West Texas State University
002848	SUNY College at Oswego		Vermont
002849	SUNY College at Plattsburgh	003686	Goddard College
002850	SUNY College at Potsdam	003690	Marlboro College
006792	SUNY College of Technology at Utica/Rome	003691	Middlebury College
002813	Sarah Lawrence College		Virginia
002817	St Bonaventure University	003715	Hollins College
002895	Vassar College	003721	James Madison University
002899	Wagner College	003732	Radford University
	North Carolina	003744	University of Richmond
002906	H L Appalachian State University	003764	H L Virginia State University
002905	H L North Carolina A & T State University		Washington
002950	H North Carolina Central University	003771	Central Washington University
002975	Univ of North Carolina at Charlotte	003775	Eastern Washington University
002984	University of North Carolina/Wilmington	003778	Gonzaga University
002981	Western Carolina University	003785	Pacific Lutheran University
	Ohio	003794	Saint Martin's College
003050	John Carroll University	003790	Seattle University
003144	Xavier University	003799	Walla Walla College
003145	Youngstown State University	003802	Western Washington University
	Oklahoma	003804	Whitworth College
003154	East Central University		West Virginia
003161	Northeastern State University	003818	University of Charleston
003181	Southwestern Oklahoma State University	006869	West Virginia Graduate College
	Oregon	003825	West Virginia Institute of Technology
003212	Pacific University		Wisconsin
003219	Southern Oregon State College	003868	Milwaukee School of Engineering
003224	University of Portland	003917	University of Wisconsin - Eau Claire
	Pennsylvania	003899	University of Wisconsin - Green Bay
003315	Bloomsburg University of Pennsylvania	003919	University of Wisconsin - La Crosse
003238	Bucknell University	009630	University of Wisconsin - Oshkosh
003316	California University of Pennsylvania	003921	University of Wisconsin - Platteville
009234	Clarion University of Pennsylvania	003923	University of Wisconsin - River Falls
003320	East Stroudsburg Univ of Pennsylvania	003924	University of Wisconsin - Stevens Point
003321	Edinboro University of Pennsylvania	003915	University of Wisconsin - Stout
003266	Gannon University	003926	University of Wisconsin - Whitewater
003322	Kutztown University of Pennsylvania		
003324	Mansfield University of Pennsylvania		
003296	Marywood College		
003325	Millersville University of Pennsylvania		

Table III-2. Master's-granting institutions in the fall 1992 survey

FICE  
CODE

FICE  
CODE

OUTLYING AREAS

Guam

003935 University of Guam

NOTE: H = Historically Black institution  
L = Land Grant institution

2

# SECTION IV. INSTRUCTIONS, SURVEY INSTRUMENTS, AND SUMMARIES

	<i>Page</i>
<b>Instructions and survey instruments</b>	
Instructions for Survey Coordinator and List of Departments and Programs (Form 811) .....	34
Instructions for the Survey of Graduate Students and Postdoctorates in Science and Engineering, Fall 1992 (Form 812) .....	38
Department or Program Data Sheet (Form 812) .....	40
Crosswalk Between NSF Discipline Codes and the NCES Classification of Instructional Programs .....	42
"How To Avoid Common Errors" insert .....	44

## INSTRUCTIONS FOR SURVEY COORDINATOR

PAGE 1 OF 4

INSTITUTION: 001083<0 University of Arizona  
Graduate School

1. Please review the list of departments/programs printed on the following pages. Add any newly formed graduate science or engineering (S&E) departments or programs in the spaces provided at the end of the list and note any name changes or reorganizations where they occur. Because of special interest at NSF and NIH, please separate the following: computer science from mathematics; all engineering fields by discipline (electrical, mechanical, etc.); and clinical psychology from all other psychology programs. Please submit separate survey forms 812 for each such program.
2. Please cross out discontinued or non-S&E programs on the departmental/program list, and indicate the last year that each discontinued program had students. However, programs which do not have graduate students or postdoctorates in Fall 1992 but may have them in the future, should NOT be crossed out; place a check in column (6) of the list instead of submitting a Form 812 for such departments/programs.
3. The enclosed Crosswalk shows the 3-digit NSF code and comparable NCES discipline codes for each science and engineering field. Please review the first 3 digits of the codes in column (2) of your list to verify that each department/program has been assigned to the correct discipline. If you do not agree with the code in column (2), please note the Crosswalk's discipline code that most closely corresponds to your department/program.
4. (a) In MEDICAL SCHOOLS, departments/programs followed by a single asterisk (\*) include the indented sections/specialties listed beneath them. These sections/specialties may be without organizational autonomy; however, because of special interest at NIH, please submit separate data for each section/specialty. In addition, please make sure that no duplicate data are reported for sections/specialties and their parent programs. (b) In GRADUATE SCHOOLS, departments followed by an asterisk (\*) include the indented specific degree-programs listed beneath them. Please submit separate Forms 812 for each specific degree-program.

5. Please distribute the enclosed Forms 812 as soon as possible to all listed and newly formed departments/programs if data cannot be obtained from your centralized files. The Forms 812 provide instructions and definitions for all requested data items. Please follow these guidelines when completing the Forms 812 (survey questionnaires).
6. Please review the Forms 812 for completeness and consistency, and verify or supply the highest degree offered by each department/program. Please check this year's data against the previous year's data shown on the departmental/program list and indicate the validity of any large Year-to-Year changes in the "Comments" section below or on the individual Forms 812.
7. Please do NOT submit responses for any graduate departments in education, law, humanities, music, the arts, physical education, library sciences, and all other non-S&E fields.
8. Please return one copy of the Form 811 (this form) along with all completed Forms 812 by JANUARY 31, 1993 to:

National Science Foundation  
Division of Science Resources Studies  
Suite 905  
4201 Wilson Boulevard  
Arlington, VA 22230

Please keep a copy of the Form 811 and the Forms 812 for your records.

9. Care should be taken to submit as complete and as accurate a report as possible in order to minimize follow-up procedures and to make more timely statistics available. If you have any questions concerning your response, please call Dr. J. G. Huckenpahler at the National Science Foundation's, Division of Science Resources Studies at (703) 306-1774.

## SURVEY COORDINATOR:

NAME: Frank Antinoro  
TITLE: Office of Management Analysis & Res  
ADDRESS: University of Arizona

116 Admin Bldg  
Tucson, Arizona 85721  
TELEPHONE: (602) 621-7807

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SIGNATURE OF SURVEY COORDINATOR

---

DATE COMPLETED

COMMENTS:

12

INSTITUTION: 001083-0 University of Arizona  
Graduate School

LIST OF DEPARTMENTS AND PROGRAMS

1991 RESPONSE CODE **	DEPARTMENT CODE ***	SCIENCE OR ENGINEERING DEPARTMENTS OR PROGRAMS	DEPARTMENTAL DEGREE LEVEL	REPORTED FOR FALL 1991:		CHECK HERE IF NO STUDENTS AND NO POSTDOCTORATES
				FULL TIME	PART TIME	
(1)	(2)	(3)	(4)	(5)	(6)	
3	10102	Aerospace & Mechanical Engineering	DOCTORATE	81	17	2
3	10201	Agricultural and Biosystems Engineering	DOCTORATE	31	1	0
1	10401	Chemical Engineering	DOCTORATE	35	0	1
1	10502	Civil Engineering	DOCTORATE	80	0	1
1	10601	Electrical & Computer Engineering	DOCTORATE	242	66	0
1	10801	Systems & Industrial Engineering	DOCTORATE	61	15	1
1	10901	Engineering Mechanics	DOCTORATE	9	0	0
1	11001	Materials Science & Engineering	DOCTORATE	55	5	6
1	11104	Mining Engineering	DOCTORATE	9	5	0
1	11105	Geological Engineering	DOCTORATE	16	6	0
1	11201	Nuclear & Energy Engineering	DOCTORATE	17	13	0
1	20101	Astronomy/Steward Observatory	DOCTORATE	32	0	11
1	20102	Planetary Science/Lunar & Planetary Lab	DOCTORATE	37	0	35
1	20201	Chemistry	DOCTORATE	124	1	43
1	20301	Physics	DOCTORATE	118	0	14
1	20302	Optical Sciences Center	DOCTORATE	133	8	8
1	30101	Atmospheric Sci's & Atmospheric Physics	DOCTORATE	25	2	0
1	30201	Hydrology & Water Resources	DOCTORATE	103	0	0
1	30202	Geosciences	DOCTORATE	91	34	4
1	30203	Arid Lands Resource Sciences	DOCTORATE	8	0	0
1	30401	Renewable Natural Resources	DOCTORATE	97	61	1
1	40101	Computer Science	DOCTORATE	98	7	2
1	40102	Management Information Systems	DOCTORATE	106	20	0
1	40203	Mathematics	DOCTORATE	69	35	4
1	40204	Applied Mathematics	DOCTORATE	65	6	0
1	40301	Statistics	MASTER'S	4	2	0
1	50112	Animal Sciences	DOCTORATE	22	2	9
1	50115	Soil & Water Science	DOCTORATE	38	0	0
1	60601	Plant Pathology	DOCTORATE	9	0	2
1	60603	Plant Sciences	DOCTORATE	35	5	12
3	60702	Molecular and Cellular Biology	DOCTORATE	43	0	6
1	60802	Ecology and Evolutionary Biology	DOCTORATE	63	0	4
1	60901	Entomology	DOCTORATE	17	3	16
1	61001	Genetics	DOCTORATE	101	01	01
1	61201	Nutrition & Food Science (Food Science)	MASTER'S	2	1	0
1	61202	Committee on Nutritional Sciences (Ph.D)	DOCTORATE	48	6	0
1	61203	Nutrition & Food Science (Dietetics)	MASTER'S	4	4	0
3	61204	Nutrition & Food Sci (Nutritional Sci's)	MASTER'S	7	1	0
1	61402	Pharmacology and Toxicology	DOCTORATE	73	0	33
1	71901	Nursing	DOCTORATE	43	108	5

(CONTINUED ON NEXT PAGE)

INSTITUTION: 001083-0 University of Arizona  
Graduate School

LIST OF DEPARTMENTS AND PROGRAMS

1991 RESPONSE CODE **	DEPARTMENT CODE ***	(2)	(3)	(4)	REPORTED FOR FALL 1991: FULL PART TIME TIME	POST- DOCS.	CHECK HERE IF NO STUDENTS AND NO POSTDOCTORATES
					(5)		(6)
1	72001	Pharmaceutical Sciences	DOCTORATE	23	2	3	_____
1	72002	Pharmacy Practice	DOCTORATE	7	0	3	_____
3	72301	Speech and Hearing Sciences	DOCTORATE	66	1	3	_____
1	80101	Psychology	DOCTORATE	113	0	3	_____
3	90101	Agricultural Economics	DOCTORATE	26	0	1	_____
1	90201	Anthropology	DOCTORATE	120	72	0	_____
1	90301	Economics	DOCTORATE	44	0	0	_____
1	90302	Mineral Economics	DOCTORATE	13	8	0	_____
1	90402	Geography and Regional Development	DOCTORATE	39	3	0	_____
1	90601	Linguistics	DOCTORATE	32	0	2	_____
1	90701	Political Science	DOCTORATE	70	0	0	_____
1	90802	Sociology	DOCTORATE	45	7	0	_____
				2758	527	235	

TOTAL, ALL DEPARTMENTS OR PROGRAMS:

ADDITIONAL DEPARTMENTS OR PROGRAMS FOR FALL 1992:  
Please fill in columns (3), (4), and if applicable, column (6). Using the  
NSF crosswalk provided, please indicate in column (2) the NSF discipline  
code that you think is most appropriate, or provide a brief description of  
the department/program's major area of concentration.

_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

\*\* 1991 RESPONSE CODE MEANINGS:

- 1 .. Matched, Data Present
- 3 .. New, Data Present

\*\*\* THE FIRST THREE DIGITS OF THE DEPARTMENT CODE ARE A FIELD OF SCIENCE & ENGINEERING CODE; A LIST OF THESE CODES IS ENCLOSED.

NOTE: This information is solicited under the authority of the National Science Foundation Act of 1950 as amended.  
All information you provide will be used for statistical purposes only. Your response is entirely voluntary  
and your failure to provide some or all of the information will in no way adversely affect your institution.

INSTITUTION: 001083-0 University of Arizona  
Graduate School

For your information, all GRADUATE STUDENT SURVEY COORDINATORS on record at your institution are listed below.

To avoid duplicate reporting of departments or programs, please be sure that joint departments or programs have been counted in only one school. In cases where you believe there may be a joint department or program between a graduate and medical school, the Form 812 should be completed by the medical school and the department should be recorded on the medical school's form 811. Please confirm this with the other coordinators, if necessary.

Please check with the other survey coordinators that each eligible department in your institution has been covered by one of the coordinators listed below.

001083-5      NAME: Christopher A. Leadem, Ph.D.  
                  TITLE: Associate Dean, Student Affairs  
                  ADDRESS: University of Arizona  
                          College of Medicine  
                          1501 N Campbell Ave  
                          Tucson, Arizona 85724  
                  TELEPHONE: (602) 626-6216



# INSTRUCTIONS

## FOR THE NSF SURVEY OF GRADUATE STUDENTS AND POSTDOCTORATES IN SCIENCE AND ENGINEERING, FALL 1992

### PURPOSE OF THE SURVEY

The survey provides a comprehensive picture of the training of future scientists and engineers in the Nation's graduate schools. Data are used by Congress and the executive branch during budget preparation, and by State government agencies and other analysts to assess the future supply of science and engineering (S&E) personnel.

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information provided will be used for statistical purposes only. Response is entirely voluntary and failure to provide some or all of the information will in no way adversely affect your institution.

The average time required for questionnaire completion is two hours. Response burden comments should be directed to Herman Fleming at NSF, (202) 357-9520.

### Students included in this survey

Count as graduate students persons enrolled for credit in any S&E master's or Ph.D. degree program in fall 1992. Report M.D., D.O., D.V.M., or D.D.S. candidates, interns, and residents in Items 5 through 7 only if they are concurrently working for an S&E master's or Ph.D. or are enrolled in a joint medical/Ph.D. program. Individuals who already hold graduate or medical degrees and are working on another master's or Ph.D. degree are considered graduate students (Items 5 through 7), not postdoctorates (Item 8).

Include S&E students performing thesis or dissertation research away from the campus (for example, at Government- and contractor-owned facilities) in the United States as long as they are enrolled for credit in an advanced-degree program.

All data should be reported in terms of headcounts, not full-time equivalents (FTEs).

### Students excluded from this survey

Exclude students enrolled in a foreign country (at a branch or extension center), as well as non-matriculated students.

Students enrolled in multiple departments/institutions.

A student should be reported in only one department. Students enrolled in interdisciplinary/interinstitutional programs should be counted only once, by their "home" department and institution.

### INCOMPLETE DATA

Please write "unavailable" or "unknown" in data cells as applicable. On this form, "N/A" means "not applicable." Data cells left blank are presumed to be zeroes.

### ITEM 5: FULL-TIME STUDENTS

Report the total number of full-time degree-seeking students in line 6(K). Then, in lines 1-6, count each full-time student only once by largest source of support so that all columns and rows in Item 5 sum to the full-time total in line 6(K). In Item 5, count only graduate students pursuing an S&E degree according to a full-time schedule; this may include any combination of study, teaching, and research, depending on your institution's policy and definition of full-time status. For example, many institutions base full-time status on the number of credit hours taken; others calculate full-time according to the amount of fees paid by the student.

### Mechanisms of Support - Lines (1) through (5)

A fellowship, line (1), is any competitive award (often from a national competition) made to a student which requires no work of the recipient. A traineeship, line (2), is an educational award given to a student selected by a university. An assistantship should be classified as research, line (3), or teaching, line (4), depending on assigned duties; e.g., a student devoting most of his/her time to teaching should be reported on line (4). All other full-time students, including members of the armed forces whose tuition is paid by the Department of Defense, and self-supported students, should be reported on line (5).

### Federal sources of support - Columns (A) through (F)

Department of Defense (DOD) - Column (A): Sources include the Departments of the Army, Navy, or Air Force, as well as programs within the Office of the Secretary of Defense. Students receiving their main support from the Veterans Administration under the G.I. Bill should be reported under column (F). "Other Federal sources."

Department of Health and Human Services (HHS) - Columns (B) and (C): Report students with support from the institutes or divisions of the National Institutes of Health (NIH) under column (B); support from all other components of HHS should be reported in column (C). Refer to the organizational roster under "Definitions."

National Science Foundation (NSF) - Column (D): Report students receiving NSF graduate fellowships and minority fellowships, as well as those supported under NSF research grants.

U.S. Department of Agriculture (USDA) - Column (E): Include research assistants working on projects financed out of Hatch, McIntyre-Stennis, or Smith-Lever formula funds, competitive research grants, and institution fellowship/training grants.

Other Federal Sources - Column (F): Report students receiving support from Federal agencies other than those listed in columns (A) through (E), such as the Fulbright program, the G.I. Bill, Department of Education, and Department of Energy programs. Students primarily supported by Federal loans should be reported in column (J); self-supported students.

### Non-Federal Sources of Support - Columns (G) through (I)

Institutional support - Column (G): Report students supported from YOUR institution, including those receiving tuition waivers. State and local government support should also be reported in this column. Students primarily supported with funds from the Federal government, such as training grants, however, should be reported under the appropriate Federal agency.

Foreign sources - Column (H): Report students supported from any non-U.S. source, such as foreign governments, industrial firms, or specialized agencies of the United Nations.

Other U.S. sources - Column (I): Report students supported from nonprofit institutions, private industry, and all other non-Federal U.S. sources not included in columns (G) or (J).

Self-supported students - (Column J): Report both foreign and U.S. citizen students whose largest source of support comes from ANY loans (including Federal loans) or from personal or family financial contributions. **These students must be included in the full-time total, line 6(K).**

### Women - Line (7)

Report all female students by the source of their primary support. In each column, data on line (7) should not exceed the total on line (6).

**First-year students - Lines (8) and (9)**

A first-year student has enrolled for the first time in the program in which he/she is pursuing a degree as of the beginning of the fall term in 1992. All other students should be considered to be beyond their first year.

**ITEM 6: PART-TIME STUDENTS**

Report all part-time students in Item 6, regardless of their source of support. Part-time students are pursuing an S&E graduate degree but NOT on a full-time schedule. Consider students part-time according to your own institution's definition of part-time status.

**ITEM 7: CITIZENSHIP AND RACIAL/ETHNIC BACKGROUND OF U.S. CITIZENS**

Report all U.S. citizens and permanent residents in columns (A) through (F), and count each student only once according to his/her racial/ethnic category as defined by the Bureau of the Census, listed under "Definitions."  
Count foreign students, i.e., those holding temporary visas, only once in column (G), regardless of race/ethnicity. Native residents of a U.S. possession and applicants for U.S. citizenship holding green cards, however, should be reported as U.S. citizens.

Total full- and part-time enrollments reported in Item 7 should match those reported in Items 5 and 6, respectively.

**ITEM 8: POSTDOCTORATES AND NONFACULTY RESEARCH STAFF WITH DOCTORATES**

Postdoctorates - Columns (A) through (F): Include individuals with S&E Ph.D.'s, M.D.'s, D.D.S.'s or D.V.M.'s (including foreign degrees equivalent to U.S. doctorates) who devote their primary effort to their own research training through research activities or study in the department under temporary appointments carrying no academic rank. These individuals may contribute to the academic program through seminars, lectures, or working with graduate students. Such postdoctorates may have different titles at different institutions, e.g., "Postdoctoral Scholar," "Research Associate," "Postdoctoral Fellow," or "Postgraduate Researcher." Exclude, however, clinical fellows and those with appointments in residency training programs in medical and health professions, unless research training under the supervision of a senior mentor is the primary purpose of the appointment.

Report postdoctorates by source of support in columns (A) through (D), with the total number of postdoctorates reported in column (E). Of this total, report the number who are foreign in column (F).

**Other non-faculty research staff with doctorates - Column (G):** Include all doctoral scientists and engineers who are involved principally in research activities but are not considered either postdoctoral appointees or members of the regular faculty.

On line (2), report the number of women in each category. On line (3), report those postdoctorates and nonfaculty research staff who hold first professional medical degrees (M.D., D.D.S., D.O., D.V.M.). Please note that in each column, data on lines (2) and (3) should not exceed the total on line (1).

**DEFINITIONS**

• **National Institutes of Health Organizational Roster**  
Item 5, column (B)

- National Institute on Aging
- National Institute on Allergy and Infectious Disease
- National Institute of Arthritis and Musculoskeletal and Skin Diseases
- National Cancer Institute
- National Institute of Child Health and Human Development
- National Institute on Deafness and Other Communication Disorders
- National Institute of Dental Research
- National Institute of Diabetes and Digestive and Kidney Diseases
- National Institute of Environmental Health Sciences
- National Eye Institute
- National Institute of General Medical Sciences
- National Heart, Lung and Blood Institute
- National Institute of Neurological Disorders and Stroke
- National Library of Medicine
- National Center for Human Genome Research
- National Center for Nursing Research
- National Center for Research Resources
- Fogarty International Center

• **Other HHS Administrative Units**  
Item 5, column (C)

- Alcohol, Drug Abuse and Mental Health Administration
- National Institute on Alcohol Abuse and Alcoholism
- National Institute on Drug Abuse
- National Institute of Mental Health
- Centers for Disease Control
- National Institute for Occupational Safety and Health
- Food and Drug Administration
- Health Resources and Services Administration
- Office of Human Development

• **Racial/Ethnic Categories for U.S. Citizens defined by the Bureau of the Census (Item 7)**

**Black, non-Hispanic:** Persons having origins in any of the black racial groups (except those of Hispanic origin).

**American Indian or Alaskan native:** Persons having origins in any of the original peoples of North America.

**Asian or Pacific Islander:** Persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. These areas include China, Japan, Korea, the Philippine Islands, and Samoa.

**Hispanic:** Persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

**White, non-Hispanic:** Persons having origins in any of the original peoples of Europe, North Africa, or the Middle East, except those of Hispanic origin.

**FOR FURTHER INFORMATION . . .**

If you have any questions about the survey, please contact Pamela Kronec of Quantum Research Corporation at (301) 657-3070 [fax (301) 657-3862].

**UPON COMPLETING THIS FORM, PLEASE RETURN IT TO YOUR SURVEY COORDINATOR FOR TRANSMITTAL BY JANUARY 31, 1993.**

NATIONAL SCIENCE FOUNDATION and NATIONAL INSTITUTES OF HEALTH  
Survey of Graduate Students and Postdoctorates in Science and Engineering, Fall 1992

DEPARTMENT OR PROGRAM DATA SHEET

Due date: January 29, 1993

ITEMS 1-4 IDENTIFYING INFORMATION

- 1 Institution Name
- 2 Name of S&E department or program

3 Person in department (or program) preparing this form

Institution and department code (LEAVE BLANK)

If changed since last year, please indicate previous name and whether this represents a merger, split, or expanded program

- 4 Highest graduate degree available in this department or program (CHECK ONE) (1) Doctorate (2) Master's (3) No Graduate Degree Offered

Report all data on a headcount basis (use whole numbers, not fractions, decimals, FTEs, etc.). If your department does not enroll graduate students, please go to Item 8.

ITEM 5 NUMBER OF FULL-TIME GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992. Report each student only once according to the source and mechanism of the largest amount of support received in fall 1992. Students receiving equal support from multiple sources or through multiple mechanisms should be reported only once. When determining the largest source of support, consider all graduate school expenses including tuition, tuition remission, other academic expenses, stipends, and living expenses.

MECHANISMS OF SUPPORT	STUDENTS RECEIVING FINANCIAL ASSISTANCE							TOTAL FULL-TIME GRADUATE ENROLLMENT (Sum of (A) through (J))				
	FEDERAL SOURCES (excluding loans)				NON-FEDERAL SOURCES							
	Department of Defense (A)	National Institutes of Health (B)	Other HHS (C)	National Science Foundation (D)	Department of Agriculture (E)	Other Federal sources (F)	Institutional support (including State and local government) (G)		Foreign sources (H)	Other U S sources (I)	SELF-SUPPORTED STUDENTS (including loans and family sources) (J)	
Graduate Fellowships (1)												
Graduate Traineeships (2)												
Graduate Research Assistantships (3)												
Graduate Teaching Assistantships (4)												
Other Types of Support (5)												
<b>FULL-TIME TOTAL*</b> (6)												
*The total number of students by mechanism of support received in fall 1992												
(7)												

(8)	Of the students on line (6), column (K), how many are FIRST-YEAR students? (Should not exceed total on line (6))
(9)	Of the first-year students on line (8), how many are WOMEN?

\*The total from line (6) should be inserted in item (7) line (1) column (H)

ITEM 6 NUMBER OF PART-TIME GRADUATE STUDENTS enrolled for advanced degrees (master's and doctorate) in fall 1992

**PART-TIME TOTAL\***

Of the students on line (1), how many are WOMEN?

(1)

(2)

\*The total from line (1) should be inserted in item (7), line (2), column (H)

ITEM 7 RACE/ETHNICITY OF FULL TIME (line (1)) and PART TIME (line (2)) graduate students in fall 1992	U.S. CITIZENS AND PERMANENT RESIDENTS						FOREIGN temporary visa holders (G)	TOTAL (Sum of (A) through (G)) (H)
	Black non- Hispanic (A)	Amer. Indian/ Alaskan Native (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non- Hispanic (E)	Other, unknown or declined to state (F)		
Of the students in items 5 and 6, how many belong to the following RACIAL/ETHNIC categories? Be sure to count each student only once.								
FULL TIME, column (H) should equal item 5, line (6), column (K)	(1)							
PART TIME, column (H), should equal item 6, line (1)	(2)							

ITEM 8 NUMBER OF POSTDOCTORATES AND NON-FACULTY RESEARCH STAFF WITH DOCTORATES in fall 1992	POSTDOCTORATES					TOTAL for all sources (A) through (D) (E)	Of the total in (E), how many are FOREIGN? (F)	OTHER NON FACULTY RESEARCH STAFF WITH DOCTORATES (G)
	SOURCE OF SUPPORT			Research grants (C)	Non- Federal (D)			
	Fellowships (A)	Traineeships (B)	Federal					
<b>TOTAL</b>	(1)							
Of the total in each cell of line (1), how many are WOMEN?	(2)							
Of the total in each cell of line (1), how many hold the M.D., D.O., D.D.S. or D.V.M. degree?	(3)							

Approximately how many personours were required to complete this form?

Explain variances from prior year's data or include other comments

List other Federal sources (agencies) from item 5, column (F), and number of full-time students supported by each



**Survey of Graduate Students and Postdoctorates  
in Science and Engineering**

**CROSSWALK BETWEEN NSF DISCIPLINE CODES AND  
THE NCES CLASSIFICATION OF INSTRUCTIONAL PROGRAMS**

The following set of discipline codes is used to categorize science and engineering departments in the Survey of Graduate Students and Postdoctorates in Science and Engineering. Representative department names are shown under each of the discipline codes.

**ENGINEERING**

- 101 AEROSPACE ENGINEERING  
14 02 AEROSPACE, AERONAUTICAL, AND ASTRONAUTICAL ENGINEERING
- 102 AGRICULTURAL ENGINEERING  
14 03 AGRICULTURAL ENGINEERING
- 103 BIOMEDICAL ENGINEERING  
14 05 BIOENGINEERING AND BIOMEDICAL ENGINEERING
- 104 CHEMICAL AND RELATED ENGINEERING  
03 0509 WOOD SCIENCE  
14 07 CHEMICAL ENGINEERING  
14.32 POLYMER/PLASTICS ENGINEERING
- 105 CIVIL AND RELATED ENGINEERING  
04 02 ARCHITECTURE  
14 04 ARCHITECTURAL ENGINEERING  
14 08 CIVIL ENGINEERING  
14 0803 STRUCTURAL ENGINEERING  
14 0805 WATER RESOURCES ENGINEERING  
14 14 ENVIRONMENTAL/ENVIRONMENTAL HEALTH ENGINEERING
- 106 ELECTRICAL AND RELATED ENGINEERING  
14 09 COMPUTER ENGINEERING  
14 10 ELECTRICAL, ELECTRONICS, AND COMMUNICATIONS ENGINEERING
- 107 ENGINEERING SCIENCE AND ENGINEERING PHYSICS  
14 12 ENGINEERING PHYSICS  
14 13 ENGINEERING SCIENCE
- 108 INDUSTRIAL/MANUFACTURING ENGINEERING  
14 17 INDUSTRIAL/MANUFACTURING ENGINEERING  
14 27 SYSTEMS ENGINEERING  
14 30 ENGINEERING/INDUSTRIAL MANAGEMENT  
30.06 SYSTEMS SCIENCE
- 109 MECHANICAL AND RELATED ENGINEERING  
14 11 ENGINEERING MECHANICS  
14 19 MECHANICAL ENGINEERING
- 110 METALLURGICAL AND MATERIALS ENGINEERING  
14 06 CERAMIC SCIENCES AND ENGINEERING  
14 18 MATERIALS ENGINEERING  
14 20 METALLURGICAL ENGINEERING  
14 28 TEXTILE SCIENCES AND ENGINEERING  
14 31 MATERIALS SCIENCE  
40 0701 METALLURGY
- 111 MINING AND RELATED ENGINEERING  
14 15 GEOLOGICAL ENGINEERING  
14 16 GEOPHYSICAL ENGINEERING  
14 21 MINING AND MINERAL ENGINEERING
- 112 NUCLEAR ENGINEERING  
14 23 NUCLEAR ENGINEERING
- 113 PETROLEUM ENGINEERING  
14 25 PETROLEUM ENGINEERING
- 114 ENGINEERING, N.E.C.  
14 01 ENGINEERING, GENERAL  
14 22 NAVAL ARCHITECTURE AND MARINE ENGINEERING  
14 24 OCEAN ENGINEERING  
14 29 ENGINEERING DESIGN  
14 99 ENGINEERING, OTHER

**PHYSICAL SCIENCES**

- 201 ASTRONOMY  
40 02 ASTRONOMY  
40 03 ASTROPHYSICS
- 202 CHEMISTRY  
40 05 CHEMISTRY (see also 602)  
40.0507 POLYMER CHEMISTRY
- 203 PHYSICS  
.10 08 PHYSICS (see also 605)  
40 0807 OPTICS  
40 0809 ACOUSTICS

- 204 PHYSICAL SCIENCES, N.E.C.  
40 01 PHYSICAL SCIENCES, GENERAL  
40 0799 MISCELLANEOUS PHYSICAL SCIENCES, OTHER  
40.99 PHYSICAL SCIENCES, OTHER

**EARTH, ATMOSPHERIC, AND OCEAN SCIENCES**

- 301 ATMOSPHERIC SCIENCES  
40 04 ATMOSPHERIC SCIENCES AND METEOROLOGY
- 302 GEOSCIENCES  
40 06 GEOLOGICAL AND RELATED SCIENCES  
40.0703 EARTH AND PLANETARY SCIENCES
- 303 OCEAN SCIENCES  
26 0607 MARINE/AQUATIC BIOLOGY  
40.0702 OCEANOGRAPHY
- 304 EARTH, ATMOSPHERIC, AND OCEAN SCIENCES, N.E.C.

**MATHEMATICAL SCIENCES**

- 402 MATHEMATICS AND APPLIED MATHEMATICS  
27 01 MATHEMATICS  
27 03 APPLIED MATHEMATICS  
27.0302 OPERATIONS RESEARCH  
27.99 MATHEMATICS, OTHER  
30 08 MATHEMATICS AND COMPUTER SCIENCE
- 403 STATISTICS  
27.05 MATHEMATICAL STATISTICS  
52.0802 ACTUARIAL SCIENCE

**COMPUTER SCIENCE**

- 401 COMPUTER SCIENCE  
11.01 COMPUTER AND INFORMATION SCIENCES, GENERAL  
11.04 INFORMATION SCIENCES AND SYSTEMS  
11 07 COMPUTER SCIENCE  
52 1201 MANAGEMENT INFORMATION SYSTEMS  
52.13 MANAGEMENT SCIENCE

**AGRICULTURAL SCIENCES (SEE ALSO 102 AND 901)**

- 501 AGRICULTURAL SCIENCES  
02.01 AGRICULTURE/AGRICULTURAL SCIENCES  
02.02 ANIMAL SCIENCES  
02 03 FOOD SCIENCES  
02 04 PLANT SCIENCES  
02 05 SOIL SCIENCES  
02 99 AGRICULTURAL SCIENCES, OTHER  
03 01 NATURAL RESOURCES CONSERVATION  
03.02 CONSERVATION AND REGULATION  
03 03 FISHING AND FISHERIES SCIENCES AND MANAGEMENT  
03 05 FORESTRY AND RELATED SCIENCES  
03.06 WILDLIFE AND WILDLANDS MANAGEMENT  
03.99 CONSERVATION AND NATURAL RESOURCES, OTHER

**BIOLOGICAL SCIENCES**

- 601 ANATOMY  
26.0601 ANATOMY  
51.1301 MEDICAL ANATOMY
- 602 BIOCHEMISTRY  
26 0202 BIOCHEMISTRY  
51 1302 MEDICAL BIOCHEMISTRY
- 603 BIOLOGY  
26 01 BIOLOGY, GENERAL
- 604 BIOMETRY AND EPIDEMIOLOGY  
26 0614 BIOMETRICS  
26 0615 BIOSTATISTICS  
51 1303 MEDICAL BIOMATHEMATICS AND BIOMETRICS  
51 2203 EPIDEMIOLOGY
- 605 BIOPHYSICS  
26 0203 BIOPHYSICS  
51 1304 MEDICAL BIOPHYSICS/PHYSICS
- 606 BOTANY  
26 03 BOTANY (EXCLUDING 26 05 MICROBIOLOGY/BACTERIOLOGY - See 611)  
26 0305 PLANT PATHOLOGY  
26 0307 PLANT PHYSIOLOGY

- 607 CELL AND MOLECULAR BIOLOGY  
26 04 CELL AND MOLECULAR BIOLOGY  
26 0401 CELL BIOLOGY  
26.0402 MOLECULAR BIOLOGY  
51 1305 MEDICAL CELL BIOLOGY  
51 1309 MEDICAL MOLECULAR BIOLOGY
- 608 ECOLOGY  
26 0603 ECOLOGY
- 609 ENTOMOLOGY AND PARASITOLOGY  
26 0610 PARASITOLOGY  
26.0702 ENTOMOLOGY
- 610 GENETICS  
26.0613 GENETICS, PLANT AND ANIMAL  
26.0617 EVOLUTIONARY BIOLOGY  
51.1306 MEDICAL GENETICS
- 611 MICROBIOLOGY, IMMUNOLOGY, AND VIROLOGY  
26 05 MICROBIOLOGY/BACTERIOLOGY  
26 0618 BIOLOGICAL IMMUNOLOGY  
26 0619 VIROLOGY  
51 1308 MEDICAL MICROBIOLOGY
- 612 NUTRITION  
19.05 FOODS AND NUTRITION STUDIES  
26.0609 NUTRITIONAL SCIENCES  
51 1311 MEDICAL NUTRITION
- 613 PATHOLOGY  
26 0704 PATHOLOGY, HUMAN AND ANIMAL  
51 1312 MEDICAL PATHOLOGY
- 614 PHARMACOLOGY  
26 0612 TOXICOLOGY  
26.0705 PHARMACOLOGY, HUMAN AND ANIMAL  
51.1314 MEDICAL TOXICOLOGY
- 615 PHYSIOLOGY  
26 0706 PHYSIOLOGY, HUMAN AND ANIMAL  
51.1313 MEDICAL PHYSIOLOGY
- 616 ZOOLOGY  
26.07 ZOOLOGY
- 617 BIOSCIENCES, N.E.C.  
26 0616 BIOTECHNOLOGY RESEARCH  
26 0699 MISCELLANEOUS BIOLOGICAL SPECIALIZATIONS, OTHER  
26 99 BIOLOGICAL SCIENCES/LIFE SCIENCES, OTHER  
30 01 BIOLOGICAL AND PHYSICAL SCIENCES  
30 10 BIOPSYCHOLOGY

PSYCHOLOGY

- 801 PSYCHOLOGY, COMBINED  
42 01 PSYCHOLOGY, GENERAL
- 802 PSYCHOLOGY, EXCEPT CLINICAL  
42 03 COGNITIVE PSYCHOLOGY AND PSYCHOLINGUISTICS  
42 04 COMMUNITY PSYCHOLOGY  
42 07 DEVELOPMENTAL AND CHILD PSYCHOLOGY  
42 08 EXPERIMENTAL PSYCHOLOGY  
42 09 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY  
42 11 PHYSIOLOGICAL PSYCHOLOGY/PSYCHOBIOLOGY  
42 16 SOCIAL PSYCHOLOGY  
42 17 SCHOOL PSYCHOLOGY  
42 99 PSYCHOLOGY, OTHER  
51 2301 ART THERAPY  
51 2303 HYPNOTHERAPY  
51 2705 PSYCHOANALYSIS
- 803 CLINICAL PSYCHOLOGY  
42 02 CLINICAL PSYCHOLOGY

SOCIAL SCIENCES

- 901 AGRICULTURAL ECONOMICS  
01 0101 AGRICULTURAL BUSINESS AND MANAGEMENT, GENERAL  
01 0102 AGRICULTURAL BUSINESS/AGRI-BUSINESS OPERATIONS  
01 0103 AGRICULTURAL ECONOMICS
- 902 ANTHROPOLOGY (CULTURAL AND SOCIAL)  
45 02 ANTHROPOLOGY  
45 03 ARCHAEOLOGY
- 903 ECONOMICS  
45 06 ECONOMICS  
52 06 BUSINESS/MANAGERIAL ECONOMICS
- 904 GEOGRAPHY  
45 0701 GEOGRAPHY  
45 0702 CARTOGRAPHY
- 905 HISTORY AND PHILOSOPHY OF SCIENCE  
45 0804 HISTORY AND PHILOSOPHY OF SCIENCE
- 906 LINGUISTICS  
16 0102 LINGUISTICS

- 907 POLITICAL SCIENCE/PUBLIC ADMINISTRATION  
44 04 PUBLIC ADMINISTRATION  
44 05 PUBLIC POLICY ANALYSIS  
44 99 PUBLIC ADMINISTRATION AND SERVICES, OTHER  
45.C9 INTERNATIONAL RELATIONS AND AFFAIRS  
45 10 POLITICAL SCIENCE AND GOVERNMENT
- 908 SOCIOLOGY  
45 05 DEMOGRAPHY AND POPULATION STUDIES  
45 11 SOCIOLOGY
- 909 SOCIOLOGY/ANTHROPOLOGY
- 910 SOCIAL SCIENCES, N.E.C.  
04 03 CITY/URBAN, COMMUNITY, AND REGIONAL PLANNING  
04 07 ARCHITECTURAL URBAN DESIGN AND PLANNING  
05 AREA, ETHNIC, AND CULTURAL STUDIES  
30 11 GERONTOLOGY  
43 01 CRIMINAL JUSTICE AND CORRECTIONS  
44 02 COMMUNITY ORGANIZATION, RESOURCES, AND SERVICES  
45 01 SOCIAL SCIENCES, GENERAL  
45 04 CRIMINOLOGY  
45 12 URBAN AFFAIRS/STUDIES  
45 99 SOCIAL SCIENCES, OTHER

HEALTH FIELDS (SEE ALSO 103)

- 701 ANESTHESIOLOGY  
51 1604 NURSING ANESTHETIST (POST-RN)
- 702 CARDIOLOGY
- 703 ONCOLOGY/CANCER RESEARCH
- 704 ENDOCRINOLOGY
- 705 GASTROENTEROLOGY
- 706 HEMATOLOGY
- 707 NEUROLOGY  
26 0608 NEUROSCIENCES
- 708 OBSTETRICS AND GYNECOLOGY
- 709 OPHTHALMOLOGY  
51 1701 OPTOMETRY (O.D.)
- 710 OTORHINOLARYNGOLOGY
- 711 PEDIATRICS
- 712 PREVENTIVE MEDICINE AND COMMUNITY HEALTH  
51 22 PUBLIC HEALTH  
51.2202 ENVIRONMENTAL HEALTH
- 713 PSYCHIATRY  
51 1610 NURSING, PSYCHIATRY/MENTAL HEALTH (POST-RN)
- 714 PULMONARY DISEASE
- 715 RADIOLOGY  
26 0611 RADIATION BIOLOGY/RADIOBIOLOGY
- 716 SURGERY
- 717 CLINICAL MEDICINE, N.E.C.  
51 1399 MEDICAL BASIC SCIENCES, OTHER  
51 1201 MEDICINE (M.D.)  
51 14 MEDICAL CLINICAL SCIENCES (M.S., Ph.D.)  
51 19 OSTEOPATHIC MEDICINE (D.O.)  
51.21 PODIATRY (D.P.M., D.P., Pod.D.)
- 718 DENTAL SCIENCES  
51 04 DENTISTRY (D.D.S., D.M.D.)  
51 05 DENTAL CLINICAL SCIENCES/GRADUATE DENTISTRY (M.S., Ph.D.)
- 719 NURSING  
51 16 NURSING  
(EXCLUDING 51 1610, NURSING, PSYCHIATRY/MENTAL HEALTH - SEE 713, AND 51 1604 NURSING ANESTHETIST - See 701)
- 720 PHARMACEUTICAL SCIENCES  
51 20 PHARMACY
- 721 VETERINARY SCIENCES  
51 24 VETERINARY MEDICINE (D.V.M.)  
51 25 VETERINARY CLINICAL SCIENCES (M.S., Ph.D.)
- 722 HEALTH RELATED, N.E.C.  
31 0505 EXERCISE SCIENCE/PHYSIOLOGY AND MOVEMENT STUDIES  
51 2306 OCCUPATIONAL THERAPY  
51 2308 PHYSICAL THERAPY  
51 2399 REHABILITATION/THERAPEUTIC SERVICES OTHER  
51 2704 NATUROPATHIC MEDICINE  
51 99 HEALTH PROFESSIONS AND RELATED SCIENCES, OTHER
- 723 COMMUNICATION DISORDERS SCIENCES  
51 02 COMMUNICATION DISORDERS SCIENCES AND SERVICES  
51 0201 COMMUNICATION DISORDERS, GENERAL  
51 0202 AUDIOLOGY/HEARING SCIENCES  
51 0203 SPEECH LANGUAGE PATHOLOGY  
51 0204 SPEECH LANGUAGE PATHOLOGY AND AUDIOLOGY

50

## HOW TO AVOID COMMON SURVEY ERRORS

Survey forms requiring mathematical corrections and/or verification for possible data inconsistencies are returned to departments before they are considered final. To avoid common mistakes found on the survey forms, please follow these guidelines:

- (1) Use only whole numbers, not decimals or fractions. When reporting graduate students in Items 5, 6, and 7, and postdoctoral appointees in Item 8, use headcounts rather than full-time-equivalents (FTEs).
- (2) Count only full-time, degree-seeking graduate students in Item 5, and count each only once, by the largest source of support, so that all columns and rows sum to the full-time total in line 6(K).
- (3) Don't forget full-time, self-supported students, who should be reported in Item 5, column (J). Self-supported students are supported primarily through loans, personal savings, and/or family contributions.
- (4) Don't forget to report sources of support for all full-time women in Item 5, line 7.
- (5) For the purposes of this survey, fellowships are competitive awards which require no work from the recipient. Do not report students in the fellowship row of Item 5 if their largest source of support does not fit this definition.
- (6) Report only full-time, first-year students in Item 5, lines 8 and 9. The total number of full-time, first-year students reported in Item 5, line 8 should not be greater than the full-time total reported in Item 5, line 6(K). Likewise, the total number of first-year full-time women reported in Item 5, line 9 should not be greater than the full-time women total reported in Item 5, line 7(K).
- (7) Do not report any part-time students in Item 5. Count all part-time students in Items 6 and 7 only.
- (8) Be sure the full-time total reported in Item 5, line 6(K) equals the full-time total reported in Item 7, line 1(H). The part-time total reported in Item 6, line 1 should equal the part-time total reported in Item 7, line 2(H).
- (9) Count only U.S. citizens and permanent residents in Item 7, columns A-F. Count all foreign students on temporary visas in column (G) only, regardless of race/ethnicity.
- (10) For the purposes of this survey, departments or programs that do not offer graduate degrees (Ph.D. or master's) are considered as "no-degree" programs, even if they grant a first professional doctorate. Such "no-degree" programs should not report students, postdoctoral appointees, or anyone else in Items 5, 6, and 7. Count individuals in a "no-degree" program only in Item 8, and only if they qualify as postdoctoral appointees or other non-faculty research staff by this survey's definitions.
- (11) Report the total number of postdoctorates in Item 8, line 1(E). Don't forget the total women postdoctorates in Item 8, line 2(E), and total postdoctorates holding M.D., D.D.S., and D.V.M. degrees in Item 8, line 3(E). Of each of these, foreign postdoctorates should also be reported in Item 8, column (F).
- (12) If the data for 1992 vary significantly from those provided last year, please note the reasons for the change in the "Comments" section of the survey Form 812.

If you have any questions, please contact Ms. Pamela Kronos of Quantum Research Corporation at (301) 657-3070.

# TECHNICAL TABLES

<i>Table</i>	<i>Page</i>
<b>Summaries of selected departmental responses</b>	
IV-A-1. Summary of responses from all departments at all graduate institutions: fall 1992 .....	47
IV-A-2. Summary of responses from all science departments at all graduate institutions: fall 1992 .....	48
IV-A-3. Summary of responses from all physical science departments at all graduate institutions: fall 1992 .....	49
IV-A-4. Summary of responses from all Earth, atmospheric, and ocean sciences departments at all graduate institutions: fall 1992 .....	50
IV-A-5. Summary of responses from all mathematical science departments at all graduate institutions: fall 1992 .....	51
IV-A-6. Summary of responses from all computer science departments at all graduate institutions: fall 1992 .....	52
IV-A-7. Summary of responses from all agricultural science departments at all graduate institutions: fall 1992 .....	53
IV-A-8. Summary of responses from all biological science departments at all graduate institutions: fall 1992 .....	54
IV-A-9. Summary of responses from all psychology departments at all graduate institutions: fall 1992 .....	55
IV-A-10. Summary of responses from all social science departments at all graduate institutions: fall 1992 .....	56
IV-A-11. Summary of responses from all engineering departments at all graduate institutions: fall 1992 .....	57
IV-A-12. Summary of responses from all aerospace engineering departments at all graduate institutions: fall 1992 .....	58
IV-A-13. Summary of responses from all chemical engineering departments at all graduate institutions: fall 1992 .....	59
IV-A-14. Summary of responses from all civil engineering departments at all graduate institutions: fall 1992 .....	60



<i>Table</i>	<i>Page</i>
IV-A-15. Summary of responses from all electrical engineering departments at all graduate institutions: fall 1992 .....	61
IV-A-16. Summary of responses from all industrial engineering departments at all graduate institutions: fall 1992 .....	62
IV-A-17. Summary of responses from all mechanical engineering departments at all graduate institutions: fall 1992 .....	63
IV-A-18. Summary of responses from all metallurgical and materials engineering departments at all graduate institutions: fall 1992 .....	64
IV-A-19. Summary of responses from all other engineering departments at all graduate institutions: fall 1992 .....	65
IV-A-20. Summary of responses from all health fields departments at all graduate institutions: fall 1992 .....	66
IV-B-1. Summary of responses from all departments at doctorate-granting institutions: fall 1992 .....	67
IV-C-1. Summary of responses from all departments at master's-granting institutions: fall 1992 .....	68
IV-D-1. Summary of responses from all departments at all public institutions: fall 1992 .....	69
IV-D-2. Summary of responses from all departments at all private institutions: fall 1992 .....	70
IV-D-3. Summary of responses from all departments at all historically black institutions: fall 1992 .....	71
IV-D-4. Summary of responses from all departments at all land grant institutions: fall 1992 .....	72
IV-D-5. Summary of responses from all departments at all medical schools: fall 1992 .....	73

Table IV-A-1. Summary of responses from all departments at all graduate institutions: fall 1992

Number of departments: 10,936

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOD (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	647	1,102	201	2,367	125	3,390	14,455	2,447	4,098		28,832
Graduate traineeships (2)	93	4,945	2,950	109	31	1,889	4,560	179	645		15,401
Graduate research assistants (3)	5,668	10,448	1,016	10,625	2,945	11,593	31,707	816	12,790		87,608
Graduate teaching assistants (4)		187	28	97	27	305	64,513		571		65,728
Other types of support (5)	2,732	303	107	100	103	1,581	12,820	2,986	3,348	101,750	125,830
FULL-TIME TOTAL (6)	9,140	16,985	4,302	13,298	3,231	18,758	128,055	6,428	21,452	101,750	323,399
Full-time women (7)	1,437	7,546	3,183	3,339	1,047	6,009	47,341	1,330	6,204	44,283	121,719
Full-time first-year total (8)											95,244
Full-time first-year women (9)											39,549

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	171,998
	Women (2)	78,084

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	10,158	1,012	14,943	9,155	182,079	9,560	96,492	323,399
Part-time (2)	8,282	516	9,232	5,558	121,115	10,122	17,173	171,998

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Federal						
	Fellow-ships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	2,976	2,905	17,097	10,308	33,286	17,024	5,471
Women (2)	1,007	1,145	4,448	2,805	9,405	4,296	1,430
With MD, DDS, or DVM degrees (3)	827	1,272	1,869	3,126	7,094	3,548	551

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-2. Summary of responses from all science departments at all graduate institutions: fall 1992

Number of departments: 6,619

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	DOD (A)	HHS (B) (C)		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
Graduate fellowships (1)	310	861	91	1,539	77	2,322	11,177	1,637	2,679		20,693
Graduate traineeships (2)	50	3,887	276	81	24	716	3,332	132	453		8,951
Graduate research assistants (3)	2,488	8,912	755	6,912	2,579	6,952	21,010	521	6,331		56,460
Graduate teaching assistants (4)		160	17	80	21	212	51,485		356		52,331
Other types of support (5)	1,009	239	41	59	94	1,070	8,434	1,683	1,851	63,612	78,092
FULL-TIME TOTAL (6)	3,857	14,059	1,180	8,671	2,795	11,272	95,438	3,973	11,670	63,612	216,527
Full-time women (7)	719	6,236	637	2,444	964	3,719	38,674	937	4,183	29,613	88,126
Full-time first-year total (8)											60,570
Full-time first-year women (9)											26,654

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	97,039
	Women (2)	45,127

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	7,479	737	8,980	6,233	128,635	5,920	58,543	216,527
Part-time (2)	5,519	339	4,411	3,560	67,965	5,822	9,423	97,039

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc. (F)	
	Federal			Non-Federal (D)			
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)	Total for all sources (A - D) (E)	Foreign postdoc. (F)	
Total (1)	1,902	1,319	12,901	5,644	21,766	11,098	3,686
Women (2)	655	566	3,406	1,599	6,226	2,879	931
With MD, DDS, or DVM degrees (3)	209	294	865	633	2,001	1,155	260

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-3. Summary of responses from all physical science departments at all graduate institutions: fall 1992

Number of departments: 686

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
	DOD (A)	HHS		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
		NIH (B)	Other HHS (C)								
Graduate fellowships (1)	76	55	20	314	2	746	894	162	502		2,771
Graduate traineeships (2)	3	235	3	8	1	186	223	4	14		677
Graduate research assistants (3)	1,021	1,735	105	3,257	63	2,915	1,969	72	1,423		12,560
Graduate teaching assistants (4)		8	0	19	2	28	11,780		35		11,872
Other types of support (5)	88	1	4	5	0	56	493	94	138	1,971	2,850
FULL-TIME TOTAL (6)	1,188	2,034	132	3,603	68	3,931	15,359	332	2,112	1,971	30,730
Full-time women (7)	190	643	50	769	19	798	3,998	53	523	445	7,488
Full-time first-year total (8)											6,948
Full-time first-year women (9)											1,919

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	Women (2)
	4,766	1,357

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	629	63	1,334	572	15,593	611	11,928	30,730
Part-time (2)	177	4	279	108	3,039	256	903	4,766

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Fellow-ships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	344	39	4,249	1,192	5,824	3,542	1,051
Women (2)	65	10	561	207	843	511	132
With MD, DDS, or DVM degrees (3)	0	0	3	2	5	1	2

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-4. Summary of responses from all earth, atmospheric, and ocean sciences departments at all graduate institutions: fall 1992

Number of departments: 384

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance										Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)	
	Federal sources (excluding loans)					Non-Federal sources							
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)				
	DOD (A)	NIH (B)	Other HHS (C)										
Graduate fellowships (1)	42	2	0	81	1	157	372	67	181		903		
Graduate traineeships (2)	3	6	6	3	0	22	48	10	4		102		
Graduate research assistants (3)	302	35	0	1,231	86	1,258	1,246	34	487		4,679		
Graduate teaching assistants (4)		0	0	2	0	12	2,448		12		2,474		
Other types of support (5)	125	0	0	6	4	65	261	134	103	2,294	2,992		
<b>FULL-TIME TOTAL (6)</b>	<b>472</b>	<b>43</b>	<b>6</b>	<b>1,323</b>	<b>91</b>	<b>1,514</b>	<b>4,375</b>	<b>245</b>	<b>787</b>	<b>2,294</b>	<b>11,150</b>		
Full-time women (7)	111	20	1	393	30	478	1,400	42	206	759	3,440		
Full-time first-year total (8)											3,049		
Full-time first-year women (9)											1,058		
=====													
6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	4,459											
	Women (2)	1,484											
=====													
7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)					
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)						
	Full-time (1)	132	25	298	226	7,431	349		2,689	11,150			
Part-time (2)	75	12	96	86	3,687	176	327	4,459					
=====													
8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)						
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)							
	Federal			Non-Federal (D)									
	Fellowships (A)	Trainee-ships (B)	Research grants (C)										
Total (1)	44	6	508	155	713	277	345						
Women (2)	10	1	101	42	154	45	59						
With MD, DDS, or DVM degrees (3)	5	0	3	0	8	2	1						

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-5. Summary of responses from all mathematical science departments at all graduate institutions: fall 1992

Number of departments: 483

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	DOD (A)	HHS		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
		NIH (B)	Other HHS (C)								
Graduate fellowships (1)	38	2	0	120	0	296	715	137	107		1,415
Graduate traineeships (2)	3	11	0	2	0	79	110	3	12		220
Graduate research assistants (3)	139	43	6	324	22	150	613	7	107		1,411
Graduate teaching assistants (4)		1	1	9	1	10	7,628		61		7,711
Other types of support (5)	206	4	0	2	2	28	481	141	67	2,975	3,906
<b>FULL-TIME TOTAL (6)</b>	<b>386</b>	<b>61</b>	<b>7</b>	<b>457</b>	<b>25</b>	<b>563</b>	<b>9,547</b>	<b>288</b>	<b>354</b>	<b>2,975</b>	<b>14,663</b>
Full-time women (7)	59	11	3	110	8	160	2,924	62	102	980	4,419
Full-time first-year total (8)											4,404
Full-time first-year women (9)											1,477

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	Women (2)
	5,712	2,133

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only						Foreign (G)	Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)		
Full-time (1)	331	20	610	231	7,138	588	5,745	14,663
Part-time (2)	247	6	333	146	3,715	513	752	5,712

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates					Other non-fac. doctoral research staff (G)	
	Source of support				Total for all sources (A - D) (E)		Foreign postdoctorates (F)
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	23	6	114	58	201	109	57
Women (2)	4	0	13	9	26	8	5
With MD, DDS, or DVM degrees (3)	2	0	30	0	32	18	16

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-6. Summary of responses from all computer science departments at all graduate institutions: fall 1992

Number of departments: 334

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOD (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	47	11	0	115	1	47	423	67	184		895
Graduate traineeships (2)	5	9	0	4	0	10	43	38	21		130
Graduate research assistants (3)	778	78	3	817	5	289	1,097	30	578		3,675
Graduate teaching assistants (4)		0	0	14	0	3	3,481		41		3,539
Other types of support (5)	364	0	0	6	0	29	539	190	210	8,040	9,378
FULL-TIME TOTAL (6)	1,194	98	3	956	6	378	5,583	325	1,034	8,040	17,617
Full-time women (7)	166	20	1	132	0	68	1,071	50	184	1,866	3,558
Full-time first-year total (8)											5,464
Full-time first-year women (9)											1,178

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	18,779
	Women (2)	4,840

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
	Full-time (1)	383	25	1,507	227	6,147	707	
Part-time (2)	667	57	1,987	468	10,811	1,443	3,346	18,779

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates					Other non-fac. doctoral research staff (G)	
	Source of support				Total for all sources (A - D) (E)		Foreign postdoc-torates (F)
	Federal			Non-Federal (D)			
	Fellowships (A)	Trainee-ships (B)	Research grants (C)				
Total (1)	2	1	110	37	150	51	77
Women (2)	0	1	29	4	34	12	9
With MD, DDS, or DVM degrees (3)	0	0	0	0	0	0	4

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-7. Summary of responses from all agricultural science departments at all graduate institutions: fall 1992

Number of departments: 338

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
	DOO (A)	HHS		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
		NIH (B)	Other HHS (C)								
Graduate fellowships (1)	2	3	0	18	15	81	185	115	90		509
Graduate traineeships (2)	0	1	0	4	8	31	51	10	1		106
Graduate research assistants (3)	14	24	1	61	1,031	598	2,393	135	840		5,097
Graduate teaching assistants (4)		0	0	0	2	0	763		14		779
Other types of support (5)	2	2	0	1	23	39	197	318	119	2,088	2,789
FULL-TIME TOTAL (6)	18	30	1	84	1,079	749	3,589	578	1,064	2,088	9,280
Full-time women (7)	3	8	0	39	316	206	1,216	106	334	709	2,937
Full-time first-year total (8)											2,169
Full-time first-year women (9)											779
=====											
6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	2,329									
	Women (2)	747									
=====											
7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)			
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)				
	Full-time (1)	134	31	175	236	5,713	163		2,828	9,280	
Part-time (2)	45	8	41	47	1,822	49	317	2,329			
=====											
8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)				
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)					
	Federal		Non-Federal								
	Fellowships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)							
Total (1)	41	2	374	217	634	275	195				
Women (2)	9	1	99	52	161	61	42				
With MD, DDS, or DVM degrees (3)	0	0	6	7	13	9	4				

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering



Table IV-A-8. Summary of responses from all biological science departments at all graduate institutions: fall 1992

Number of departments: 2,099

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOD (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	48	677	34	394	39	210	2,735	264	789		5,190
Graduate traineeships (2)	22	3,290	156	41	10	83	1,089	30	82		4,803
Graduate research assistants (3)	108	6,267	255	864	997	932	5,982	169	1,975		17,549
Graduate teaching assistants (4)		120	4	31	16	20	8,665		80		8,936
Other types of support (5)	56	208	21	9	50	179	1,294	214	275	5,734	8,040
FULL-TIME TOTAL (6)	234	10,562	470	1,339	1,112	1,424	19,765	677	3,201	5,734	44,518
Full-time women (7)	91	4,774	235	576	462	617	9,062	184	1,293	2,856	20,150
Full-time first-year total (8)											10,885
Full-time first-year women (9)											5,388

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	Women (2)
	9,919	5,389

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	1,110	113	2,378	1,187	27,133	773	11,824	44,518
Part-time (2)	381	26	464	297	7,261	481	1,009	9,919

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Fellow-ships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	1,347	1,155	7,214	3,594	13,310	6,578	1,679
Women (2)	514	494	2,465	1,142	4,615	2,164	573
With MD, DDS, or VM degrees (3)	197	290	815	608	1,910	1,108	225

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-9. Summary of responses from all psychology departments at all graduate institutions: fall 1992

Number of departments: 745

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOD (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	27	56	18	147	0	143	1,454	36	103		1,984
Graduate traineeships (2)	9	243	72	7	0	144	591	1	110		1,177
Graduate research assistants (3)	62	595	328	118	19	303	2,561	4	300		4,290
Graduate teaching assistants (4)		27	9	2	0	14	5,695		56		5,803
Other types of support (5)	37	18	10	10	0	367	2,562	16	540	17,572	21,132
FULL-TIME TOTAL (6)	135	939	437	284	19	971	12,863	57	1,109	17,572	34,386
Full-time women (7)	61	580	277	158	14	637	8,516	30	691	12,165	23,129
Full-time first-year total (8)											9,944
Full-time first-year women (9)											6,810
6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	19,434									
	Women (2)	13,930									
7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)			
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)				
	Full-time (1)	1,681	208	952	1,642	26,947	1,295		1,661	34,386	
Part-time (2)	1,107	83	345	736	15,646	1,189	328	19,434			
8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)				
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)					
	Federal			Non-Federal (D)							
	Fellowships (A)	Trainee-ships (B)	Research grants (C)								
Total (1)	51	84	228	163	526	129	152				
Women (2)	34	45	102	67	248	42	70				
With MD, DDS, or DVM degrees (3)	2	4	8	13	27	13	3				

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-10. Summary of responses from all social science departments at all graduate institutions: fall 1992

Number of departments: 1,550

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOD (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	30	55	19	350	19	642	4,399	789	723		7,026
Graduate traineeships (2)	5	92	39	12	5	161	1,177	36	209		1,736
Graduate research assistants (3)	64	135	57	240	356	507	5,149	70	621		7,199
Graduate teaching assistants (4)		4	3	3	0	125	11,025		57		11,217
Other types of support (5)	131	6	6	20	15	307	2,607	576	399	22,938	27,005
<b>FULL-TIME TOTAL (6)</b>	<b>230</b>	<b>292</b>	<b>124</b>	<b>625</b>	<b>395</b>	<b>1,742</b>	<b>24,357</b>	<b>1,471</b>	<b>2,009</b>	<b>22,938</b>	<b>54,183</b>
Full-time women (7)	38	180	70	267	115	755	10,487	410	850	9,833	23,005
Full-time first-year total (8)											17,707
Full-time first-year women (9)											8,045

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	Women (2)
	31,641	15,247

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only						Foreign (G)	Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)		
Full-time (1)	3,079	252	1,726	1,912	32,533	1,434	13,247	54,183
Part-time (2)	2,820	143	866	1,672	21,984	1,715	2,441	31,641

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates					Other non-fac. doctoral research staff (G)	
	Source of support				Total for all sources (A - D) (E)		Foreign postdoc-torates (F)
	Fellowships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	50	26	104	228	408	137	130
Women (2)	19	14	36	76	145	36	41
With MD, DDS, or DVM degrees (3)	3	0	0	3	6	4	5

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-11. Summary of responses from all engineering departments at all graduate institutions: fall 1992

Number of departments: 1,488

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	DOD (A)	HHS		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
		NIH (B)	Other HHS (C)								
Graduate fellowships (1)	306	42	25	786	47	848	2,256	684	1,128		6,122
Graduate traineeships (2)	26	175	32	27	4	162	458	30	129		1,043
Graduate research assistants (3)	3,156	630	47	3,689	303	4,405	8,793	266	5,969		27,258
Graduate teaching assistants (4)		3	0	15	6	61	10,605		173		10,863
Other types of support (5)	1,397	7	2	41	7	226	2,693	1,014	1,081	22,712	29,180
FULL-TIME TOTAL (6)	4,885	857	106	4,558	367	5,702	24,805	1,994	8,480	22,712	74,466
Full-time women (7)	506	210	21	865	53	878	3,657	154	1,255	3,038	10,637
Full-time first-year total (8)											21,911
Full-time first-year women (9)											3,515
=====											
6. PART-TIME GRADUATE S/E STUDENTS											
Total (1)		43,581									
Women (2)		6,521									
=====											
7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS		U.S. citizens only								Total (sum of columns A - G) (H)	
		Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)			
Full-time (1)		1,352	106	4,574	1,360	29,988	2,834	34,252	74,466		
Part-time (2)		1,020	71	4,002	1,090	27,380	3,072	6,946	43,581		
=====											
8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF		Postdoctorates							Other non-fac. doctoral research staff (G)		
		Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)				
		Fellow-ships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)						
Total (1)		59	18	1,539	738	2,354	1,583	720			
Women (2)		8	5	162	70	245	151	68			
With MD, DDS, or DVM degrees (3)		2	4	24	14	44	24	10			

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-12. Summary of responses from all aerospace engineering departments at all graduate institutions: fall 1992

Number of departments: 50

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance										Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources						
	DOD (A)	HHS		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)			
		NIH (B)	Other HHS (C)									
Graduate fellowships (1)	38	0	0	45	0	50	108	55	49		345	
Graduate traineeships (2)	4	0	0	0	0	4	17	0	0		25	
Graduate research assistants (3)	280	4	5	93	0	320	332	6	175		1,215	
Graduate teaching assistants (4)		0	0	0	0	7	405		17		429	
Other types of support (5)	399	0	0	1	0	28	90	39	40	695	1,292	
FULL-TIME TOTAL (6)	721	4	5	139	0	409	952	100	281	695	3,306	
Full-time women (7)	39	1	0	22	0	48	81	5	25	42	263	
Full-time first-year total (8)											1,009	
Full-time first-year women (9)											100	

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	730
	Women (2)	85

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Foreign (G)	Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)			
Full-time (1)	41	5	132	59	1,731	276	1,062	3,306	
Part-time (2)	6	1	47	9	502	29	136	730	

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Fellow-ships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	0	0	65	27	92	60	39
Women (2)	0	0	2	2	4	3	1
With MD, DDS, or DVM degrees (3)	0	0	0	0	0	0	0

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-13. Summary of responses from all chemical engineering departments at all graduate institutions: fall 1992

Number of departments: 168

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (")
	Federal sources (excluding loans)					Non-Federal sources					
	DOD (A)	HHS		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
		NIH (B)	Other HHS (C)								
Graduate fellowships (1)	10	8	18	104	1	64	351	42	184		782
Graduate traineeships (2)	1	65	0	3	0	23	38	0	57		187
Graduate research assistants (3)	107	85	2	569	37	563	1,030	63	812		3,268
Graduate teaching assistants (4)		2	0	2	0	15	957		48		1,024
Other types of support (5)	5	0	0	4	0	14	174	62	49	946	1,254
<b>FULL-TIME TOTAL (6)</b>	<b>123</b>	<b>160</b>	<b>20</b>	<b>682</b>	<b>38</b>	<b>679</b>	<b>2,550</b>	<b>167</b>	<b>1,150</b>	<b>946</b>	<b>6,515</b>
Full-time women (7)	19	42	4	153	3	113	435	21	208	145	1,143
Full-time first-year total (8)											1,615
Full-time first-year women (9)											348

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	Women (2)
	1,637	317

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	114	12	351	141	2,454	122	3,321	6,515
Part-time (2)	36	4	130	49	1,036	85	297	1,637

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Federal			Non-Federal (D)			
	Fellow-ships (A)	Trainee-ships (B)	Research grants (C)				
Total (1)	3	3	340	216	562	422	152
Women (2)	0	0	43	28	71	51	16
With MD, DDS, or DVM degrees (3)	0	0	0	0	0	0	0

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-16. Summary of responses from all industrial engineering departments at all graduate institutions: fall 1992

Number of departments: 170

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	DOD (A)	HHS		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
		NIH (B)	Other HHS (C)								
Graduate fellowships (1)	9	3	2	26	0	29	125	42	33		269
Graduate traineeships (2)	0	0	25	1	0	0	0	0	1		27
Graduate research assistants (3)	53	19	4	137	5	119	604	10	296		1,247
Graduate teaching assistants (4)		0	0	0	0	0	887		7		894
Other types of support (5)	214	0	0	1	0	24	277	86	94	2,959	3,655
<b>FULL-TIME TOTAL (6)</b>	<b>276</b>	<b>22</b>	<b>31</b>	<b>165</b>	<b>5</b>	<b>172</b>	<b>1,893</b>	<b>138</b>	<b>431</b>	<b>2,959</b>	<b>6,092</b>
Full-time women (7)	43	12	8	45	1	46	406	9	80	525	1,175
Full-time first-year total (8)											1,894
Full-time first-year women (9)											380

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	7,643
	Women (2)	1,489

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only						Foreign (G)	Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)		
Full-time (1)	1,119	14	347	121	2,166	277	2,978	6,092
Part-time (2)	261	29	461	175	5,352	488	877	7,643

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Federal						
	Fellow-ships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	1	0	24	13	38	25	17
Women (2)	0	0	2	1	3	2	3
With MD, DDS, or DVM degrees (3)	0	0	0	0	0	0	0

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-15. Summary of responses from all electrical engineering departments at all graduate institutions: fall 1992

Number of departments: 254

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
	DOD (A)	HHS		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
		NIH (B)	Other HHS (C)								
Graduate fellowships (1)	71	3	3	233	0	195	500	133	355		1,493
Graduate traineeships (2)	3	22	0	8	0	20	88	1	20		162
Graduate research assistants (3)	1,204	77	9	1,113	28	625	2,161	30	1,634		6,881
Graduate teaching assistants (4)		0	0	10	0	24	3,367		21		3,422
Other types of support (5)	403	3	0	15	1	26	717	293	388	7,187	9,033
FULL-TIME TOTAL (6)	1,681	105	12	1,379	29	890	6,833	457	2,418	7,187	20,991
Full-time women (7)	169	16	3	222	0	146	771	26	287	774	2,414
Full-time first-year total (8)											5,960
Full-time first-year women (9)											758

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	Women (2)
	15,281	1,832

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Foreign (G)	Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)			
Full-time (1)	433	26	1,806	378	7,079	869	10,400	20,991	
Part-time (2)	332	12	2,009	368	8,762	1,404	2,394	15,281	

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Fellowships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	8	0	223	81	312	191	122
Women (2)	1	0	24	5	30	18	7
With MD, DDS, or DVM degrees (3)	0	0	5	0	5	4	3

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering



Table IV-A-14. Summary of responses from all civil engineering departments at all graduate institutions: fall 1992

Number of departments: 230

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOD (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	41	3	1	51	3	134	292	166	95		786
Graduate traineeships (2)	7	1	0	4	0	40	133	17	2		204
Graduate research assistants (3)	217	32	3	450	66	723	1,546	22	651		3,710
Graduate teaching assistants (4)		0	0	0	6	5	1,623		6		1,640
Other types of support (5)	48	1	1	4	5	62	692	241	230	4,755	6,039
FULL-TIME TOTAL (6)	313	37	5	509	80	964	4,286	446	984	4,755	12,379
Full-time women (7)	40	15	0	98	17	192	788	44	204	900	2,298
Full-time first-year total (8)											4,350
Full-time first-year women (9)											910

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	7,006
	Women (2)	1,307

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	187	20	555	274	5,627	362	5,354	12,379
Part-time (2)	151	10	444	201	4,445	371	1,384	7,006

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates					Other non-fac. doctoral research staff (G)	
	Source of support				Total for all sources (A - D) (E)		Foreign postdoc. torates (F)
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	7	0	127	54	188	127	52
Women (2)	0	0	20	1	21	9	7
With MD, DDS, or DVM degrees (3)	0	0	0	1	1	1	1

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-17. Summary of responses from all mechanical engineering departments at all graduate institutions: fall 1992

Number of departments: 209

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOD (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	43	4	0	146	0	164	361	63	128		909
Graduate traineeships (2)	6	9	2	8	0	22	113	0	8		168
Graduate research assistants (3)	525	62	8	625	26	922	1,356	49	1,113		4,686
Graduate teaching assistants (4)		1	0	1	0	3	2,157		28		2,190
Other types of support (5)	135	0	0	10	0	29	411	103	129	3,655	4,472
<b>FULL-TIME TOTAL (6)</b>	<b>709</b>	<b>76</b>	<b>10</b>	<b>790</b>	<b>26</b>	<b>1,140</b>	<b>4,398</b>	<b>215</b>	<b>1,406</b>	<b>3,655</b>	<b>12,425</b>
Full-time women (7)	52	11	0	110	4	84	425	7	132	258	1,083
Full-time first-year total (8)											3,692
Full-time first-year women (9)											351

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	6,343
	Women (2)	617

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	199	14	716	207	5,210	525	5,554	12,425
Part-time (2)	123	10	470	190	3,929	427	1,194	6,343

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	Other non-fac. doctoral research staff (G)
	Source of support						
	Fellow-ships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	11	6	236	105	358	213	98
Women (2)	0	2	14	6	22	12	9
With MD, DDS, or DVM degrees (3)	0	1	12	1	14	2	2

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-18. Summary of responses from all metallurgical and materials engineering departments at all graduate institutions: fall 1992

Number of departments: 107

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
	DOD (A)	HHS		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
		NIH (B)	Other HHS (C)								
Graduate fellowships (1)	60	0	0	67	0	77	91	47	108		450
Graduate traineeships (2)	4	0	0	0	0	19	20	7	7		57
Graduate research assistants (3)	447	15	6	385	20	513	621	44	595		2,646
Graduate teaching assistants (4)		0	0	2	0	4	341		20		367
Other types of support (5)	3	0	0	2	0	5	87	26	36	610	769
FULL-TIME TOTAL (6)	514	15	6	456	20	618	1,160	124	766	610	4,289
Full-time women (7)	86	3	1	112	3	115	257	17	136	82	812
Full-time first-year total (8)											973
Full-time first-year women (9)											213

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	Women (2)
	1,181	245

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	41	4	232	55	1,828	131	1,998	4,289
Part-time (2)	19	0	95	17	775	92	183	1,181

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Federal			Non-Federal (D)			
	Fellowships (A)	Trainee-ships (B)	Research grants (C)				
Total (1)	3	0	281	174	458	331	121
Women (2)	1	0	30	22	53	36	12
With MD, DDS, or DVM degrees (3)	2	0	1	10	13	10	0

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-19. Summary of responses from all other engineering departments at all graduate institutions: fall 1992

Number of departments: 300

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOD (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	34	21	1	114	43	135	428	136	176		1,088
Graduate traineeships (2)	1	78	5	3	4	34	49	5	34		213
Graduate research assistants (3)	323	336	10	317	121	620	1,143	42	693		3,605
Graduate teaching assistants (4)		0	0	0	0	3	868		26		897
Other types of support (5)	190	3	1	4	1	38	245	164	115	1,905	2,666
FULL-TIME TOTAL (6)	548	438	17	438	169	830	2,733	347	1,044	1,905	8,469
Full-time women (7)	58	110	5	103	25	134	494	25	183	312	1,449
Full-time first-year total (8)											2,418
Full-time first-year women (9)											455
=====											
6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	3,760									
	Women (2)	629									
=====											
7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)			
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)				
	Full-time (1)	148	11	435	125	3,893	272		3,585	8,469	
	Part-time (2)	92	5	346	81	2,579	176	481	3,760		
=====											
8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Total for all sources (A - D) (E)	Foreign postdoctorates (F)	Other non-fac. doctoral research staff (G)		
	Source of support				Non-Federal (D)						
	Federal										
	Fellowships (A)	Traineeships (B)	Research grants (C)								
Total (1)	26	9	243	68	346	214	119				
Women (2)	6	3	27	5	41	20	13				
With MD, DDS, or DVM degrees (3)	0	3	6	2	11	7	4				

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-A-20. Summary of responses from all health fields departments at all graduate institutions: fall 1992

Number of departments: 2,829

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOH (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	31	199	85	42	1	220	1,022	126	291		2,017
Graduate traineeships (2)	17	883	2,642	1	3	1,011	770	17	63		5,407
Graduate research assistants (3)	24	906	214	24	63	236	1,904	29	490		3,890
Graduate teaching assistants (4)		24	11	2	0	32	2,423		42		2,534
Other types of support (5)	326	57	64	0	2	285	1,693	289	416	15,426	18,558
FULL-TIME TOTAL (6)	398	2,069	3,016	69	69	1,784	7,812	461	1,302	15,426	32,406
Full-time women (7)	212	1,100	2,525	30	30	1,412	5,010	239	766	11,632	22,956
Full-time first-year total (8)											12,763
Full-time first-year women (9)											9,380
-----											
6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	31,378									
	Women (2)	26,436									
-----											
7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Foreign (G)	Total (sum of columns A - G) (H)		
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)					
	Full-time (1)	1,327	169	1,389	1,562	23,456	806			3,697	32,406
Part-time (2)	1,743	106	819	908	25,770	1,228	804	31,378			
-----											
8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Foreign postdoctorates (F)	Other non-fac. doctoral research staff (G)			
	Source of support				Total for all sources (A - D) (E)						
	Federal										
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)							
Total (1)	1,015	1,568	2,657	3,926	9,166	4,343	1,065				
Women (2)	344	574	880	1,136	2,934	1,266	431				
With MD, DDS, or DVM degrees (3)	616	974	980	2,479	5,049	2,369	281				

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-B-1. Summary of responses from all departments at doctorate-granting institutions: fall 1992

Number of departments: 9,329

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOO (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	638	1,097	199	2,350	119	3,252	13,917	2,422	4,029		28,023
Graduate traineeships (2)	81	4,913	2,793	109	31	1,766	4,340	179	628		14,840
Graduate research assistants (3)	5,594	10,368	993	10,542	2,867	11,311	30,248	815	12,623		85,361
Graduate teaching assistants (4)		185	28	93	21	284	62,038		527		63,176
Other types of support (5)	2,678	289	79	98	103	1,220	11,356	2,929	3,222	86,379	108,353
FULL-TIME TOTAL (6)	8,991	16,852	4,092	13,192	3,141	17,833	121,899	6,345	21,029	86,379	299,753
Full-time women (7)	1,398	7,468	3,025	3,299	1,014	5,555	44,327	1,312	6,064	35,825	109,287
Full-time first-year total (8)											86,132
Full-time first-year women (9)											34,668

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	Women (2)
	128,039	55,681

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
	Full-time (1)	8,558	889	13,730	8,308	167,384	8,103	
Part-time (2)	5,226	366	6,340	3,896	91,044	6,533	14,634	128,039

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Fellowships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	2,975	2,903	17,019	10,290	33,187	16,969	5,438
Women (2)	1,007	1,143	4,437	2,804	9,391	4,291	1,420
With MD, DDS, or DVM degrees (3)	827	1,272	1,868	3,125	7,092	3,547	547

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-C-1. Summary of responses from all departments at master's-granting institutions: fall 1992

Number of departments: 1,607

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
	DOD (A)	HHS		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
		NIH (B)	Other HHS (C)								
Graduate fellowships (1)	9	5	2	17	6	138	538	25	69		809
Graduate traineeships (2)	12	32	157	0	0	123	220	0	17		561
Graduate research assistants (3)	74	80	23	83	78	282	1,459	1	167		2,247
Graduate teaching assistants (4)		2	0	4	6	21	2,475		44		2,552
Other types of support (5)	54	14	28	2	0	361	1,464	57	126	15,371	17,477
FULL-TIME TOTAL (6)	149	133	210	106	90	925	6,156	83	423	15,371	23,646
Full-time women (7)	39	78	158	40	33	454	3,014	18	140	8,458	12,432
Full-time first-year total (8)											9,112
Full-time first-year women (9)											4,881

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	43,959
	Women (2)	22,403

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only						Foreign (G)	Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)		
Full-time (1)	1,600	123	1,213	847	14,695	1,457	3,711	23,646
Part-time (2)	3,056	150	2,892	1,662	30,071	3,589	2,539	43,959

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates					Other non-fac. doctoral research staff (G)	
	Source of support				Total for all sources (A - D) (E)		Foreign postdoctorates (F)
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	1	2	78	18	99	55	33
Women (2)	0	2	11	1	14	5	10
With MD, DDS, or DVM degrees (3)	0	0	1	1	2	1	4

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-D-1. Summary of responses from all departments at all public institutions: fall 1992

Number of departments: 7,636

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOO (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	282	585	134	1,094	117	2,345	7,883	1,171	2,421		16,032
Graduate traineeships (2)	49	2,646	2,409	71	29	1,325	1,736	86	357		8,708
Graduate research assistants (3)	3,550	7,173	692	7,690	2,839	9,042	26,194	611	9,735		67,526
Graduate teaching assistants (4)		123	21	85	27	150	52,199		386		52,991
Other types of support (5)	2,435	229	74	83	82	1,144	8,666	2,053	2,278	68,855	85,899
FULL-TIME TOTAL (6)	6,316	10,756	3,330	9,023	3,094	14,006	96,678	3,921	15,177	68,855	231,156
Full-time women (7)	950	4,866	2,572	2,204	990	4,476	34,839	784	4,443	28,792	84,916
Full-time first-year total (8)											67,847
Full-time first-year women (9)											27,670

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	Women (2)
	115,672	52,126

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	7,099	778	10,259	6,759	131,182	6,445	68,634	231,156
Part-time (2)	5,502	403	6,270	3,890	81,959	4,732	12,916	115,672

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Fellowships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	1,604	1,439	10,585	5,290	18,918	9,598	3,489
Women (2)	514	583	2,720	1,397	5,214	2,328	872
With MD, DDS, or DVM degrees (3)	416	588	866	1,169	3,039	1,380	221

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering



Table IV-D-2. Summary of responses from all departments at all private institutions: fall 1992

Number of departments: 3,300

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOD (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	365	517	67	1,273	8	1,045	6,572	1,276	1,677		12,800
Graduate traineeships (2)	44	2,299	541	38	2	564	2,824	93	288		6,693
Graduate research assistants (3)	2,118	3,275	324	2,935	106	2,551	5,513	205	3,055		20,082
Graduate teaching assistants (4)		64	7	12	0	155	12,314		185		12,737
Other types of support (5)	297	74	33	17	21	437	4,154	933	1,070	32,895	39,931
<b>FULL-TIME TOTAL (6)</b>	<b>2,824</b>	<b>6,229</b>	<b>972</b>	<b>4,275</b>	<b>137</b>	<b>4,752</b>	<b>31,377</b>	<b>2,507</b>	<b>6,275</b>	<b>32,895</b>	<b>92,243</b>
Full-time women (7)	487	2,680	611	1,135	57	1,533	12,502	546	1,761	15,491	36,803
Full-time first-year total (8)											27,397
Full-time first-year women (9)											11,879

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	Women (2)
	56,326	25,958

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	3,059	234	4,684	2,396	50,897	3,115	27,858	92,243
Part-time (2)	2,780	113	2,962	1,668	39,156	5,390	4,257	56,326

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates					Total for all sources (A - D) (E)	Foreign postdoctorates (F)	Other non-fac. doctoral research staff (G)
	Source of support							
	Fellowships (A)	Traineeships (B)	Research grants (C)	Non-Federal (D)				
Total (1)	1,372	1,466	6,512	5,018	14,368	7,426	1,982	
Women (2)	493	562	1,728	1,408	4,191	1,968	558	
With MD, DDS, or DVM degrees (3)	411	684	1,003	1,957	4,055	2,168	330	

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-D-3. Summary of responses from all departments at all historically black institutions: fall 1992

Number of departments: 190

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	DOD (A)	HHS		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
		NIH (B)	Other HHS (C)								
Graduate fellowships (1)	6	14	5	10	3	122	114	3	49		326
Graduate traineeships (2)	5	21	24	6	0	20	94	0	6		176
Graduate research assistants (3)	76	71	18	53	69	150	92	1	50		580
Graduate teaching assistants (4)		2	0	2	6	15	278		11		314
Other types of support (5)	0	5	1	0	0	22	141	5	55	783	1,012
FULL-TIME TOTAL (6)	87	113	48	71	78	329	719	9	171	783	2,408
Full-time women (7)	18	63	32	28	25	127	312	6	78	342	1,031
Full-time first-year total (8)											837
Full-time first-year women (9)											398

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	Women (2)
	1,656	788

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
	Full-time (1)	1,231	7	105	17	254	55	
Part-time (2)	965	0	46	10	283	53	299	1,656

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc- torates (F)	
	Federal						
	Fellow- ships (A)	Trainee- ships (B)	Research grants (C)	Non- Federal (D)			
Total (1)	19	7	65	6	97	57	13
Women (2)	10	3	18	3	34	13	5
With MD, DDS, or DVM degrees (3)	10	3	2	0	15	2	0

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-D-4. Summary of responses from all departments at all land grant institutions: fall 1992

Number of departments: 3,146

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)						Non-Federal sources				
	HHS			NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
	DOD (A)	NIH (B)	Other HHS (C)								
Graduate fellowships (1)	286	306	86	1,020	96	1,348	4,185	956	1,620		9,903
Graduate traineeships (2)	32	1,568	1,001	60	30	566	995	60	188		4,500
Graduate research assistants (3)	2,831	3,720	415	5,451	2,542	6,447	13,848	521	6,373		42,148
Graduate teaching assistants (4)		76	9	48	26	85	28,534		173		28,951
Other types of support (5)	322	84	19	46	73	355	2,932	1,167	1,298	27,177	33,473
<b>FULL-TIME TOTAL (6)</b>	<b>3,471</b>	<b>5,754</b>	<b>1,530</b>	<b>6,625</b>	<b>2,767</b>	<b>8,801</b>	<b>50,494</b>	<b>2,704</b>	<b>9,652</b>	<b>27,177</b>	<b>118,975</b>
Full-time women (7)	534	2,501	1,141	1,600	884	2,279	17,378	558	2,640	9,898	39,413
Full-time first-year total (8)											31,796
Full-time first-year women (9)											11,691

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	Women (2)
	31,572	13,109

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	2,991	373	5,677	3,941	65,146	2,495	38,352	118,975
Part-time (2)	1,310	91	1,204	1,060	22,292	820	4,795	31,572

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Fellow-ships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	949	629	6,498	3,437	11,513	5,894	2,453
Women (2)	288	260	1,571	891	3,010	1,366	587
With MD, DDS, or DVM degrees (3)	215	188	370	588	1,361	657	128

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

Table IV-D-5. Summary of responses from all departments at all medical schools: fall 1992

Number of departments: 2,900

5. FULL-TIME GRADUATE S/E STUDENTS	Students receiving financial assistance									Self support (includ. loans & family sources) (J)	Total for all sources (sum of columns A - I) (K)
	Federal sources (excluding loans)					Non-Federal sources					
	DOD (A)	HHS		NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Inst. support (G)	Foreign sources (H)	Other U.S. sources (I)		
		NIH (B)	Other HHS (C)								
Graduate fellowships (1)	27	524	46	136	1	104	1,913	78	432		3,261
Graduate traineeships (2)	19	2,055	978	20	0	220	895	15	78		4,280
Graduate research assistants (3)	28	3,326	145	113	18	132	2,555	30	582		6,929
Graduate teaching assistants (4)		71	0	6	0	10	1,114		39		1,240
Other types of support (5)	168	170	19	3	0	105	988	52	139	4,514	6,158
<b>FULL-TIME TOTAL (6)</b>	<b>242</b>	<b>6,146</b>	<b>1,188</b>	<b>278</b>	<b>19</b>	<b>571</b>	<b>7,465</b>	<b>175</b>	<b>1,270</b>	<b>4,514</b>	<b>21,868</b>
Full-time women (7)	122	2,772	917	126	6	339	3,661	54	541	2,856	11,394
Full-time first-year total (8)											6,457
Full-time first-year women (9)											3,752

  

6. PART-TIME GRADUATE S/E STUDENTS	Total (1)	5,432
	Women (2)	3,933

  

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. citizens only							Total (sum of columns A - G) (H)
	Black non-Hispanic (A)	American Indian/Alaskan (B)	Asian/Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	
Full-time (1)	712	82	1,416	1,104	13,548	366	4,640	21,868
Part-time (2)	262	37	149	210	4,379	136	259	5,432

  

8. S/E POSTDOCTORATES AND NONFACULTY DOCTORAL RESEARCH STAFF	Postdoctorates						Other non-fac. doctoral research staff (G)
	Source of support				Total for all sources (A - D) (E)	Foreign postdoc-torates (F)	
	Fellow-ships (A)	Trainee-ships (B)	Research grants (C)	Non-Federal (D)			
Total (1)	1,721	2,305	6,176	5,787	15,989	7,784	1,709
Women (2)	633	904	2,097	1,733	5,367	2,401	670
With MD, DDS, or DVM degrees (3)	760	1,161	1,547	2,923	6,391	3,155	395

Source: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering

93

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