

NATIONAL SCIENCE FOUNDATION  
ARLINGTON, VA 22230

Dear Departmental Respondent:

The National Science Foundation (NSF) and the National Institutes of Health (NIH) request your participation in their annual Survey of Graduate Students and Postdoctorates in Science and Engineering. Your timely response will ensure that your department is accurately represented in data used by Federal and State decisionmakers. In addition, we hope you will find the data useful for comparisons with other institutions in your State or region. Also, since industrial firms use these data in preparing for employment recruiting visits, your participation in the survey provides valuable benefits to your graduates.

**Your survey data should be returned to NSF on or before January 31, 2005.** This year the survey will continue to be offered online. **The Web-based data collection system (<http://www.gss2004.org>) offers many advantages over the paper survey form.** We encourage you to take advantage of the Web system. Departmental IDs and passwords to access the system are available from your school coordinator or from Mr. Jason Bauer or Ms. Jacqueline Fiore of ORC Macro. **If you do not use the Web system, please return your completed data sheet to your survey coordinator before this date so that it can be transmitted to NSF in time to meet the survey deadline.** If you are returning your survey individually, please mail it to:

NSF-NIH Graduate Student Survey  
c/o ORC Macro  
7315 Wisconsin Avenue, Suite 400W  
Bethesda, MD 20814-3202

The data requested for the fall 2004 survey are exactly the same as those for the fall 2003 survey. When you return the survey Form 812 to your institution's survey coordinator, please keep a copy for your files. The instructions on the survey form and "How to Avoid Common Survey Errors" on page 7 should assist you in completing the survey. Because survey data with arithmetic errors or large trend inconsistencies will be returned for correction, verification, or explanation, please adhere to the guidelines. If you have any questions about the survey forms, please contact Mr. Bauer by telephone at (301) 657-3077, ext. 322 or Ms. Fiore at (301) 657-3077, ext. 118. You may also contact them toll-free at (866) 695-6275 or by e-mail at [gss@qrc.com](mailto:gss@qrc.com).

Please provide separate data sheets for (1) clinical psychology and (2) all other psychology departments or degree programs, due to special interest in the clinical area. Similarly, please submit separate data for degree programs in engineering, such as electrical engineering or mechanical engineering, and likewise, separate data for degree programs in computer science and in mathematics.

Survey results are made available in a variety of modes. A two-page *InfoBrief* and selected summary tables are published. All tables and reports are made available in various electronic formats on the Internet (<http://www.nsf.gov/sbe/srs/stats.htm>). These results are also entered in the Web-Based Computer-Aided Science Policy Analysis and Research (WebCASPAR) database system. The URL for WebCASPAR is <http://caspar.nsf.gov/webcaspar>.

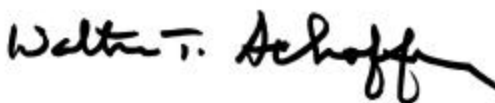
Thank you for your efforts in providing timely and meaningful statistics to NSF and NIH.

Sincerely,



Lynda T. Carlson, Ph.D.  
Division Director  
Division of Science Resources Statistics  
National Science Foundation

Sincerely,



Walter T. Schaffer, Ph.D.  
NIH Research Training Officer  
Research Training Office  
Office of the Director  
National Institutes of Health

Enclosures: D

## INSTRUCTIONS

### FOR THE NSF-NIH SURVEY OF GRADUATE STUDENTS AND POSTDOCTORATES IN SCIENCE AND ENGINEERING, FALL 2004

#### 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 2 hours. Response burden comments should be directed to Suzanne Plimpton at (703) 292-7556.

#### 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 2004. Report M.D., D.D.S., D.O., or D.V.M. candidates, interns, and residents in items 5 through 7 **only** if they are concurrently working for an S&E master's or Ph.D. degree 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.

Use only **whole** numbers. When reporting data for items 5, 6, 7, and 8, use headcounts, **not** full-time equivalents (FTEs).

#### Students Excluded From This Survey

Exclude students enrolled in a foreign country (at a branch or extension center), and 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 4: HIGHEST GRADUATE DEGREE AVAILABLE

For the purposes of this survey, departments of programs that do

not offer graduate degrees (Ph.D. or master's) are considered as "No Ph.D.s or master's degree offered" programs, regardless of first professional or other degrees granted. "No Ph.D. or master's degree offered" programs should not report students, postdoctoral appointees, or anyone else in items 5, 6, and 7. Count individuals in a "No Ph.D. or master's degree offered" program only in item 8, and only if they qualify as postdoctoral appointees or other non-faculty staff by this survey's definitions.

#### ITEM 5: FULL-TIME MECHANISMS OF SUPPORT

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.

Report the total number of full-time degree-seeking students in line (6), column (M). Then, in lines (1) through (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), column (M). The full-time total in item 5, line (6), column (M) must equal the full-time total reported in item 7, line (6), column (K).

Do not forget full-time, self-supported students, who should be reported in column (L). Self-supported students are supported primarily through loans, personal savings, and/or family contributions.

#### Mechanisms of Support—Lines (1) Through (5)

A **fellowship**, line (1), is any competitive award (often from a national competition) made to a student that requires no work of the recipient. A **traineeship**, line (2), is an educational award given to a student selected by the institution. 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 or 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 (H)

**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 (H), "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); report support from all other components of HHS in column (C). Refer to the organizational roster under "Survey Definitions" on page 3.

**National Science Foundation (NSF)—Column (D):** Report students receiving NSF graduate 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.

**National Aeronautics and Space Administration (NASA)—Column (F):** Report students with support from this agency.

**Department of Energy (DOE)—Column (G):** Report students receiving support under DOE research grants, including those supported by grants at national laboratories.

**Other Federal Sources—Column (H):** Report students receiving support from Federal agencies other than those listed in columns (A) through (G), such as the Fulbright program, the G.I. Bill, and Department of Education programs. Students primarily supported by Federal loans should be reported in column (L), "Self-supported students."

#### Non-Federal Sources of Support—Cols. (I) Through (L)

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

**Self-supported students—Column (L):** 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), column (M).**

**Full-Time Women—Line (7)**

Report all full-time female students by the source of their primary support. The total number of full-time women should be reported in line (7), column (M). In each column, data on line (7) should not exceed the total on line (6).

The total number of full-time women in item 5, line (7), column (M) must match the total number of full-time women in item 7, line (5), column (K).

**ITEMS 6 & 7: CITIZENSHIP AND RACIAL/ETHNIC BACKGROUND OF U.S. CITIZENS AND PERMANENT RESIDENTS**

Report all U.S. citizens and permanent residents in columns (A) through (I), and count each student only once according to his or her racial/ethnic category as defined by the Office of Management and Budget, listed under “Survey Definitions (3)” on this page.

Count foreign students, i.e., students who are in this country on temporary visas, only **once** in column (J), regardless of race/ethnicity. *Students who are native residents of a U.S. possession or are permanent residents holding green cards should be included under U.S. citizens and permanent residents.*

Please record, under the One Race Only: Non-Hispanic header, columns (A) through (E), those U.S. citizen or permanent resident students who have reported themselves in only one of the following categories: non-Hispanic Black/African American, non-Hispanic American Indian or Alaska Native, non-Hispanic Asian, non-Hispanic Native Hawaiian/Pacific Islander, or non-Hispanic White. Under the header One Race Only: Hispanic, column (F), please record those U.S. citizens and permanent residents who have reported themselves as Hispanic and either no race or only one race (Black/African American, American Indian or Alaska Native, Asian, Native Hawaiian/Pacific Islander, or White). If you allow students to report multiple races and they are U.S. citizens or permanent residents, please record them in columns (G) and (H). If students have reported themselves as Hispanic and two or more of the racial categories, please record them in column (G), More Than One Race Reported, Hispanic. Students who are non-Hispanic but are two or more races should be recorded in column (H), More Than One Race Reported, non-Hispanic. Record students who are U.S. citizens or permanent residents but have an unknown race or ethnicity in column (I). Finally, record all of those students who are on temporary visas in column (J) regardless of their race or ethnicity.

**ITEM 6: PART-TIME STUDENTS****Part-Time Men, Women, and Total—Lines (1) Through (3)**

For item 6, report ALL part-time students, 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: FULL-TIME STUDENTS****Full-Time Total—Line (6)**

Total full-time enrollment reported in item 7, line (6), should match that reported in item 5, line (6).

**First-Time Full-Time Students—Line (7)**

A first-time student has enrolled in the program in which he or she is pursuing a degree as of the beginning of the fall term in 2004. All other students should be considered to be beyond their first time of enrollment. The total number of first-time, full-time students in item 7, line (7), column (K), should not be greater than the full-time total reported in item 7, line (6), column (K).

**First-Time Full-Time Women—Line (8)**

The total number of first-time, full-time women reported in item 7, line (8) should not be greater than the full-time women total reported in item 7, line (5), column (K).

**SURVEY DEFINITIONS****(1) NATIONAL INSTITUTES OF HEALTH ORGANIZATIONAL ROSTER**

—Item 5, column (B)

Fogarty International Center  
National Cancer Institute  
National Center for Human Genome Research  
National Center for Nursing Research  
National Center for Research Resources  
National Eye Institute  
National Heart, Lung, and Blood Institute  
National Institute of Arthritis and Musculoskeletal and Skin Diseases  
National Institute of Child Health and Human Development  
National Institute of Dental Research  
National Institute of Diabetes and Digestive and Kidney Diseases  
National Institute of Environmental Health Sciences  
National Institute of General Medical Sciences  
National Institute of Mental Health  
National Institute of Neurological Disorders and Stroke  
National Institute on Aging

National Institute on Alcohol Abuse and Alcoholism  
National Institute of Allergy and Infectious Diseases  
National Institute on Deafness and Other Communication Disorders  
National Institute on Drug Abuse  
National Library of Medicine

**(2) OTHER HHS ADMINISTRATIVE UNITS**

—Item 5, column (C)

Substance Abuse and Mental Health Services Administration  
(Please note that the former Alcohol, Drug Abuse, and Mental Health Administration institutes are now part of the National Institutes of Health.)  
Centers for Disease Control and Prevention  
National Institute for Occupational Safety and Health  
Food and Drug Administration  
Health Resources and Services Administration

**(3) RACIAL/ETHNIC CATEGORIES FOR U.S. CITIZENS AND PERMANENT RESIDENTS DEFINED BY THE OFFICE OF MANAGEMENT AND BUDGET**

—Items 6 & 7

**Black or African American:** A person having origins in any of the black racial groups of Africa.

**American Indian or Alaska Native:** A person having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment.

**Asian:** A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent; for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Samoa, Thailand, and Vietnam.

**Native Hawaiian or Other Pacific Islander:** A person having origins in any of the original peoples of Hawaii, Guam, or other Pacific islands.

**White:** A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.

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

**More Than One Race Reported:** Students reporting two or more of the race/ethnicity categories above.

**FOR FURTHER INFORMATION . . .**

**If you have any questions about this survey, please contact Mr. Jason Bauer of ORC Macro by telephone at (301) 657-3077, ext. 322 or Ms. Jacqueline Fiore of ORC Macro**

**by telephone at (301) 657-3077, ext. 118. You may also contact them toll-free at (866) 695-6275 or by e-mail at [gss@qrc.com](mailto:gss@qrc.com).**

**UPON COMPLETING THIS FORM, PLEASE RETURN IT TO YOUR SURVEY COORDINATOR FOR TRANSMITTAL BY JANUARY 31, 2005.**

NATIONAL SCIENCE FOUNDATION and NATIONAL INSTITUTES OF HEALTH  
Survey of Graduate Students and Postdoctorates in Science and Engineering, Fall 2004

**DEPARTMENT OR PROGRAM DATA SHEET**

Due date: January 31, 2005

**IDENTIFYING INFORMATION**

1. Institution name: \_\_\_\_\_

2. Name of S&E department or program:  
\_\_\_\_\_

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

3. Person in department or program preparing this form:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

E-mail Address: \_\_\_\_\_

4. Highest **graduate** degree<sup>1</sup> available in this department or program (CHECK ONE):(1) Ph.D.<sup>2</sup>  (2) Master's  (3) No Ph.D.<sup>2</sup> or master's degree offered 

If no Ph.D. or master's offered, do not report data in items 5, 6, and 7.

**Institution and  
department code  
(LEAVE BLANK)**

**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 doctoral) in fall 2004. Report each student **only once** according to the source and mechanism of the **largest amount of support** received in fall 2004.

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 academic expenses including tuition, tuition remission, and stipends.

MECHANISMS OF SUPPORT	Line	STUDENTS RECEIVING FINANCIAL ASSISTANCE											SELF-SUPPORTED STUDENTS (including loans and family sources) (L)	TOTAL FULL-TIME GRADUATE ENROLLMENT (Sum of (A) through (L)) (M)
		FEDERAL SOURCES (excluding loans)								NON-FEDERAL SOURCES				
		Department of Defense (A)	HHS		National Science Foundation (D)	Department of Agriculture (E)	NASA (F)	Department of Energy (G)	Other Federal sources (H)	Institutional support (including State & local government) (I)	Foreign sources (J)	Other U.S. Sources (K)		
			National Institutes of Health (B)	Other HHS (C)										
Graduate Fellowships	(1)													
Graduate Traineeships	(2)													
Graduate Research Assistantships	(3)													
Graduate Teaching Assistantships	(4)													
Other Types of Support	(5)													
<b>FULL-TIME TOTAL<sup>3</sup></b>	(6)													
<b>Of the students in line (6), how many in each data cell are WOMEN?<sup>4</sup></b>	(7)													

<sup>1</sup> Report the highest degree offered even if there are no graduate students currently enrolled. Check "No Ph.D or master's degree offered" only if your department or program does not offer graduate degrees.

<sup>2</sup> Or Ph.D. equivalent such as Sc.D. and D.Eng., but not Ed.D., M.D., or other professional degree

<sup>3</sup> The total from line (6) should be inserted in item 7, line (6), column (K).

<sup>4</sup> The total from line (7) should be inserted in item 7, line (5), column (K).

ITEM 6. RACE/ ETHNICITY of PART- TIME graduate students in fall 2004, by sex.	How many students belong to the following RACIAL/ETHNIC categories? In each line, count each student only once.	U.S. CITIZENS AND PERMANENT RESIDENTS										FOREIGN	TOTAL
		ONE RACE ONLY: Non-Hispanic/Latino					ONE RACE ONLY	MORE THAN ONE RACE		Unknown or did not state	Temporary visa holders	(Sum of (A) through (J))	
		Black/ African American	Amer. Indian or Alaska Native	Asian	Native Hawaiian/ Pacific Islander	White	Hispanic/ Latino	Hispanic/ Latino	Non-Hispanic/ Latino				(I)
MEN ENROLLED PART TIME	(1)												
WOMEN ENROLLED PART TIME	(2)												
PART TIME, TOTAL	(3)												

ITEM 7. RACE/ ETHNICITY of FULL- TIME (Item 5) graduate students in fall 2004, by sex.	MEN ENROLLED FULL TIME	(4)											
	WOMEN ENROLLED FULL TIME (column (K) should equal Item 5, line (7), column (M))	(5)											
	FULL TIME, TOTAL (column (K) should equal Item 5, line (6), column (M))	(6)											
	Of the full-time students on line (6), how many are FIRST TIME?	(7)											
	Of the first-time students on line (7), how many are WOMEN?	(8)											

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

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Please explain variances from the previous year's data or include other comments:

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If you prefer to enter your data on the Web, go to <http://www.gss2004.org>.

## INSTRUCTIONS FOR ITEM 8: POSTDOCTORATES AND NON-FACULTY RESEARCH STAFF WITH DOCTORATES

**POSTDOCTORATES—Columns (A) through (F):** Include all postdoctorates receiving research training through the department or program. Use the following criteria to determine postdoctorate status:

- The appointee holds a Ph.D. or equivalent doctorate (e.g., Sc.D., M.D., D.D.S., D.O., D.V.M., or foreign degrees equivalent to U.S. doctorates).
- The doctorate was awarded recently, generally within the last 5 years.
- The appointment is for a limited term, the limit generally being 5–7 years.
- The appointment is primarily for the purpose of training in research or scholarship.
- The appointee works under the supervision of a senior scholar in a department or research unit affiliated with the university.

These postdoctorates may have different titles—do not include 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).

**Foreign postdoctorates—Column (F):** Include all postdoctorates who are in this country on temporary visas. Postdoctorates who are native residents of a U.S. possession or are permanent residents holding green cards should be included under U.S. citizens and permanent residents.

If you included postdoctorates who are part of your department or program but work in interdisciplinary research centers or other organized research units outside of the department or program, please provide a list of the names of those research centers or units:

**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 non-faculty research staff who hold first professional degrees in medical and related fields (M.D., D.D.S., D.O., or D.V.M.). Please note that in each column, data on lines (2) and (3) should not exceed the total on line (1).

ITEM 8. NUMBER OF POSTDOCTORATES AND NON-FACULTY RESEARCH STAFF WITH DOCTORATES in fall 2004.		POSTDOCTORATES						OTHER NON- FACULTY RESEARCH STAFF WITH DOCTORATES  (G)
		SOURCE OF SUPPORT				TOTAL for all sources (A) through (D)  (E)	Of the total in (E), how many are FOREIGN?  (F)	
		FEDERAL			NON-FEDERAL  (D)			
		Fellowships  (A)	Traineeships  (B)	Research grants  (C)				
<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 an M.D., D.O., D.D.S., or D.V.M. degree?	(3)							

Approximately how many person hours were required to complete this form?

Please explain variances from the previous year's data or include other comments:

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## HOW TO AVOID COMMON SURVEY ERRORS

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

<p>(1) Use only <b>whole numbers</b>, 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).</p> <p>(2) In item 5, count only full-time, degree-seeking graduate students, and count each only <b>once</b>, by the <b>largest</b> source of support, so that all columns and rows sum to the full-time total in line (6), column (M).</p> <p>(3) Don't forget full-time, self-supported students, who should be reported in item 5, column (L). Self-supported students are supported primarily through loans, personal savings, and/or family contributions.</p> <p>(4) Don't forget to report sources of support for all full-time women in item 5, line (7).</p> <p>(5) For the purposes of this survey, fellowships are competitive awards that 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.</p>	<p>(6) Report only full-time, first-time students in item 7, lines (7) and (8). The total number of full-time, first-time students reported in item 7, line (7) should not be greater than the full-time total reported in item 7, line (6), column (K). Likewise, the total number of full-time, first-time women reported in item 7, line (8) should not be greater than the full-time women total reported in item 7, line (5), column (K).</p> <p>(7) Do not report any part-time students in item 5. Count all part-time students in item 6 only.</p> <p>(8) The full-time total reported in item 5, line (6), column (M) must equal the full-time total reported in item 7, line (6), column (K). Similarly, the total number of full-time women in item 5, line (7), column (M) must match the total number of full-time women in item 7, line (5), column (K).</p> <p>(9) In items 6 and 7, count only U.S. citizens and permanent residents in columns (A) through (I). Count all foreign students on temporary visas in column (J) only, regardless of race/ethnicity.</p>	<p>(10) In items 6 and 7, column (C), count only U.S. citizens and permanent residents. Do not count Asian foreign nationals.</p> <p>(11) For the purposes of this survey, departments or programs that do not offer graduate degrees (Ph.D. or master's) are considered as "no Ph.D. or master's degree" programs, regardless of first professional or other degrees granted. "No Ph.D. or master's degree" programs should not report students, postdoctoral appointees, or anyone else in items 5, 6, and 7. Count individuals in a "no Ph.D. or master's degree" program only in item 8, and <b>only if they qualify as postdoctoral appointees</b> or other non-faculty research staff by this survey's definitions.</p> <p>(12) Report the total number of postdoctorates in item 8, line (1), column (E). Don't forget the total women postdoctorates in item 8, line (2), column (E), and total postdoctorates holding M.D., D.O., D.D.S., and D.V.M. degrees in item 8, line (3), column (E). Of each of these, foreign postdoctorates should be reported in item 8, column (F).</p> <p>(13) If the data for 2004 vary significantly from those provided last year, please note the reasons for the change in the "Comments" section of the survey Form 812.</p>
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If you have any questions, please contact Mr. Jason Bauer of ORC Macro by telephone at (301) 657-3077, ext. 322 or Ms. Jacqueline Fiore of ORC Macro by telephone at (301) 657-3077, ext. 118. You may also contact them toll-free at (866) 695-6275 or by e-mail at [gss@qrc.com](mailto:gss@qrc.com).

## WHY DOES NSF COLLECT THESE DATA FROM YOUR DEPARTMENT?

The data that your department reports to NSF on the NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering (graduate student survey) are used in several ways, both at an institutional and national level.

At the institutional level, your data are combined with other science and engineering (S&E) data to create institutional profiles. Many institutional research officers use these data in peer analyses to help determine future directions at their own institutions. Based on full-time student enrollment, the profiles rank your graduate school among all U.S. graduate schools<sup>1</sup>, and present six aggregations specific to your school:

- Characteristics of full-time graduate S&E students
- Characteristics of part-time graduate S&E students
- Full-time graduate S&E students receiving primary support from Federal sources, by field

- Full-time graduate S&E students, by type and primary source of support
- Characteristics of S&E postdoctorates
- Characteristics of federally-supported S&E postdoctorates

Institutional profiles are online at <http://www.nsf.gov/sbe/srs/profiles/toc.htm>.

At the national level, Congress, the Executive Branch, educational associations, and Federal agencies use summary tables comprised of graduate student survey data to analyze enrollment trends, identify up-and-coming science and engineering fields, and project enrollment deficits in fields vital to national interest. These trends help Federal agencies and other policy makers determine where to allocate future monies. For example, Federal agencies use these data to consider changes in levels and mechanisms of support for graduate students. Federal agencies also use these data, in conjunction with other information, for

program development and evaluation and in determining institutional eligibility for programs targeted to special populations or instructional programs. Summary tables are also used by many nonacademic employers to locate potential sources of future employees.

Summary tables are online at <http://www.nsf.gov/sbe/srs/gss/start.htm>.

Finally, the data you provide are added to WebCASPAR, a rapidly expanding database of statistics on S&E programs at U.S. academic institutions. WebCASPAR is available to the public for free, providing easy access to a large body of statistical data. Over 3,000 registered researchers and policy makers use these data for studies on the current state of graduate education in S&E. Users can run customized queries to analyze data trends by field, enrollment, funding patterns, or more.

WebCASPAR is online at <http://caspar.nsf.gov/webcaspar>.

<sup>1</sup> All U.S. graduate schools with active departments in S&E fields.

## SUBMITTING YOUR DATA THROUGH THE WEB

This year, the NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering will continue to offer online reporting for departments. The online system allows you to enter your data directly onto your computer screen, computes totals for you, reports errors instantly, and gives you access to your previous year's data.

To access the Web survey, go to <http://www.gss2004.org>. Enter your departmental ID and password information (available from your

school coordinator). At the First Time User Information screen, you will be prompted to enter your name, phone number, and e-mail address. You will also be asked to change your assigned password to one that you choose. After providing this information, click on Continue to move to the Department Menu screen.

At the Department Menu screen you will notice that the questionnaire items have been divided into four sections: Department Information, Race/Ethnicity

and Gender (items 6 and 7 on the paper survey), Mechanisms of Support (item 5 on the paper survey), and Postdoctorates (item 8 on the paper survey). To begin entering data, click on a submission icon. For additional instructions on accessing the Web survey, please consult the online help documentation at <http://www.gss2004.org/gssweb/help/>. For additional help, send an e-mail to NSF's contractor, ORC Macro, at [gss@qrc.com](mailto:gss@qrc.com), or call Mr. Jason Bauer at (301) 657-3077, ext. 322 or Ms. Jacqueline Fiore at (301) 657-3077, ext. 118. You may also contact them toll-free at (866) 695-6275.





**Survey of Graduate Students and Postdoctorates in Science and Engineering**  
**2004 CROSSWALK BETWEEN NSF DISCIPLINE CODES AND**  
**THE 1990 NCES CLASSIFICATION OF INSTRUCTIONAL PROGRAMS**

The following set of discipline codes categorizes the science and engineering departments or programs 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 ENGR.
- 102 AGRICULTURAL ENGINEERING**  
14.03 AGRICULTURAL ENGINEERING
- 103 BIOMEDICAL ENGINEERING**  
14.05 BIOENGINEERING AND BIOMEDICAL ENGINEERING
- 104 CHEMICAL ENGINEERING**  
03.0509 WOOD SCIENCE  
14.07 CHEMICAL ENGINEERING  
14.32 POLYMER/PLASTICS ENGINEERING
- 105 CIVIL 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 ENGINEERING**  
14.09 COMPUTER ENGINEERING  
14.10 ELECTRICAL, ELECTRONICS, AND COMMUNICATIONS ENGR.
- 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 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 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**  
40.08 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  
52.1301 MANAGEMENT SCIENCE

**AGRICULTURAL SCIENCES**

- 501 AGRICULTURAL SCIENCES (SEE ALSO 102 AND 901)**  
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 RENEWABLE 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**  
26.0204 MOLECULAR BIOLOGY  
26.04 CELL AND MOLECULAR BIOLOGY  
26.0401 CELL 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 (EXCEPT 26.0702, ENTOMOLOGY—SEE 609, AND 26.0705, PHARMACOLOGY, HUMAN AND ANIMAL—SEE 614)
- 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/AGRIBUSINESS 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  
45.09 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-R.N.)
- 702 CARDIOLOGY**
- 703 ONCOLOGY/CANCER RESEARCH**
- 704 ENDOCRINOLOGY**
- 705 GASTROENTEROLOGY**
- 706 HEMATOLOGY**
- 707 NEUROLOGY**  
26.0608 NEUROSCIENCE
- 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-R.N.)
- 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/GRAD. 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

***N.E.C. = not elsewhere classified***

REV. 9-00