

**National Science Foundation–
National Institutes of Health
Survey of Postdoctorates
at Federally Funded
Research and Development Centers**

**Deliverable
0210119.000.800.500
Final Report**

November 2008

Prepared for

**Julia Oliver
National Science Foundation
4201 Wilson Boulevard, Suite 965
Arlington, VA 22230**

Prepared by

**RTI International
3040 Cornwallis Road
Research Triangle Park, NC 27709**

RTI Project Number 0210119.000.800.500

Contents

Chapter	Page
1. General Notes	1
2. Technical Notes	1
Survey Universe	1
Survey Instruments.....	2
Survey Methodology	2
3. Response Rate Calculations	4
4. Editing and Missing Data	5
5. Results and Discussion	6
Source of Support.....	9
Citizenship	9
Sex.....	9
6. References	10
Appendixes	
A: Master List of FFRDCs, January 1, 2008	A-1
B: FFRDC Survey Cover Letter and Instrument	B-1
C: Respondent Communication Materials.....	C-1
D: FFRDCs without Postdocs	D-1
E: Summary Tables from 2004 to 2007	E-1

Tables

Number		Page
1	FFRDCs meeting the eligibility criteria.....	3
2	Survey launch and follow-up communications schedule.....	4
3	Cumulative response rates, by week.....	4
4	Postdoctorates at federally funded research and development centers, by citizenship, source of support, and sex: 2007	6
5	Postdoctorates at federally funded research and development centers, source of support by citizenship: 2007.....	7
6	Postdoctorates at federally funded research and development centers, sex by citizenship: 2007.....	8
7	Postdoctorates at federally funded research and development centers, by source of support, sex, and citizenship: 2007	8
8	Postdoctorates at National Institutes of Health Intramural Research program, source of support by citizenship: 2007	9

1. GENERAL NOTES

Federally Funded Research and Development Centers (FFRDCs) are organizations that perform research and development and “are exclusively or substantially financed by the federal government and are supported by the federal government either to meet a particular R&D objective or, in some instances, to provide major facilities at universities for research and associated training purposes. Each center is administered by an industrial firm, a university, or another nonprofit institution” (National Science Foundation [NSF] 2006). Many FFRDCs employ postdoctoral researchers (postdocs) as part of their efforts to assist government agencies with scientific research and analysis and to train the country’s researchers and scientists.

The 2007 FFRDC survey collected the total number of postdocs employed by FFRDCs in the United States, categorized by source of support, citizenship, and sex, as of January 2008. The FFRDC survey is collected as part of the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS), which is sponsored by the National Science Foundation (NSF) and the National Institutes of Health (NIH). Funding for the FFRDC survey is provided in part by the Department of Energy.

2. TECHNICAL NOTES

Survey Universe

The universe for the 2007 GSS-FFRDC survey was the Master Government List of Federally Funded Research and Development Centers (available online at <http://www.nsf.gov/statistics/ffrdc/>). This list of FFRDCs has kept since 1967 by the NSF. The master list of FFRDCs as of January 1, 2008, appears in Appendix A. The survey universe as of January 1, 2008, consisted of 38 FFRDCs. Of these 38 FFRDCs, any that either currently had or could have a postdoc program was eligible to participate in the survey.

The 2008 survey also contacted the NIH’s Intramural Research Program because it is believed to employ the largest number of postdocs in the federal government. NIH is also a co-sponsor of the GSS. However, because, it is not an FFRDC, its data are reported separately from the 38 FFRDCs.

Survey Instruments

The 2007 FFRDC survey collected data on the total number of postdocs employed by each center. A postdoc is defined by the GSS as an appointee who holds a PhD or equivalent doctorate; whose doctorate was awarded recently, generally within the past 5 years; whose appointment is for a limited term, generally no more than 5 to 7 years; who works under the supervision of a senior researcher; and whose appointment is primarily for the purpose of training in research or scholarship.

The FFRDC survey collected data on the type of support the postdocs received (federal and nonfederal), their sex, and their citizenship. A copy of the survey questionnaire is included in Appendix B.

Survey Methodology

On January 4, 2008, before starting data collection, RTI International (a trade name of Research Triangle Institute, Research Triangle Park, NC) contacted the directors of all 38 FFRDCs to obtain a respondent name when it was missing, confirm whether the individuals listed as respondents for previous data collections were still at their center, and whether they would still be the most appropriate survey respondent. The respondent name was missing for 4 FFRDCs. RTI staff established that 1 of the 38 FFRDCs, the National Biodefense Analysis and Countermeasures Center, was a new FFRDC that was not fully operational and did not have any postdocs. Thus, no respondent was identified for that center. Of the remaining 3 centers missing a respondent name, the directors were sent a letter asking them to identify the name and contact information for an appropriate respondent. Copies of these letters and all other communication with the FFRDCs are included in Appendix C. Of the 34 directors who were asked to confirm a contact name, 10 did not reply. RTI then e-mailed the respondent identified in 2007 to confirm whether the individual would be the respondent again. RTI sent follow-up e-mail messages and made follow-up telephone calls as necessary to the directors of the 4 FFRDCs that had not previously identified a respondent. As a result of these efforts, a respondent was identified for the 37 operational FFRDCs.

The survey instrument was e-mailed to all 37 FFRDCs as soon as a respondent was identified for the center. During the data collection process, 15 centers indicated that they did not have postdocs. The list of

centers that said they had no postdocs was compared with past data, and RTI confirmed that those 15 FFRDCs reported having no postdocs in past survey cycles. Later in the data collection, these FFRDCs were sent an e-mail message asking them to consider whether they might have postdocs working at their center under the title of “postdoctoral fellow,” “postdoctoral researcher,” or “research associate.” Each of the 15 centers responded via e-mail or during a telephone follow-up and confirmed that they had no employees that met the definition of a postdoc working at their FFRDC. In all, 16 FFRDCs were ineligible, including the National Biodefense Analysis and Countermeasures Center. These are identified in Appendix D. Table 1 lists the 22 FFRDCs that met the eligibility criteria for inclusion in the 2007 FFRDC survey.

TABLE 1. FFRDCs meeting the eligibility criteria

FFRDC
Ames Lab.
Argonne National Lab.
Brookhaven National Lab.
Fermi National Accelerator Lab.
ID National Lab.
Jet Propulsion Lab.
Lawrence Berkeley National Lab.
Lawrence Livermore National Lab.
Los Alamos National Lab.
National Astronomy and Ionosphere Ctr.
National Cancer Institute-Frederick
National Ctr. for Atmospheric Research Ctr./University Corporation for Atmospheric Research
National Optical Astronomy Observatory
National Radio Astronomy Observatory
National Renewable Energy Lab.
Oak Ridge National Lab.
Pacific Northwest National Lab.
Princeton Plasma Physics Lab.
Sandia National Labs.
Savannah River National Lab.
Stanford Linear Accelerator Ctr.
Thomas Jefferson National Accelerator Facility

FFRDC = federally funded research and development center.

The FFRDCs were informed in the cover letter that the survey was due on March 17, 2008. A series of follow-up communications with FFRDCs that had yet to respond began before the due date and continued until

the final survey was returned. These follow-ups included both e-mails and telephone calls to the identified respondent. The schedule for the survey launch and follow-up communications is shown in Table 2.

TABLE 2. Survey launch and follow-up communications schedule

Date	Type of communication
January 4, 2008	Letters to directors to confirm respondents
February 4, 2008	Survey e-mailed to respondents
February 18, 2008	First follow-up e-mail, confirming receipt of the survey
March 3, 2008	Second reminder e-mail
March 17, 2008	Survey due
March 18, 2008	Third reminder e-mail
March 18–21, 2008	First follow-up phone call, confirming receipt of the survey
March 24, 2008	Fourth reminder e-mail
March 24–28, 2008	Second reminder phone call
April 17, 2008	Final survey received

3. RESPONSE RATE CALCULATIONS

All 22 eligible FFRDCs in the population responded to the survey. One FFRDC provided partial data: the National Cancer Institute-Frederick did not report postdoc data by sex. Using the American Association for Public Opinion Research (AAPOR) Response Rate 6 calculation, which counts partials as responses and is used when there are no cases with unknown eligibility, the response rate for the FFRDC data collection was 100%. The FFRDC response rate by week is shown in Table 3.

TABLE 3. Cumulative response rates, by week

Weeks after survey mailed (February 4, 2008)	Response by week		Overall response rate	
	Responded	Response rate (%)	Total	Response rate (%)
1	8	36.4	8	36.4
2	4	18.2	12	54.6
3	2	9.1	14	63.7
4	0	0	14	63.7
5	0	0	14	63.7
6	5	22.7	19	86.4
7	0	0	19	86.4
8	2	9.1	21	95.5
9 (final)	1	4.5	22	100

According to the standard definition issued by AAPOR, Response Rate 6 is calculated using the following equation (AAPOR 2008):

$$RR6 = \frac{(I + P)}{(I + P) + (R + NC + O)}$$

where:

RR = Response rate *I* = Complete interview

P = Partial interview *R* = Refusal and break-off

NC = Noncontact *O* = Other

For this data collection, the response rate calculation is as follows:

$$RR2 = \frac{(21 + 1)}{(21 + 1) + (0 + 0 + 0)} = 100\%$$

4. EDITING AND MISSING DATA

As each FFRDC returned data, RTI staff reviewed the submission to confirm that all data fields were completed and that data were internally consistent. In cases where additional information or corrections were needed, respondents were contacted by telephone or e-mail and asked to correct and resubmit the survey.

RTI conducted a comprehensive review of 13 FFRDCs that were flagged for edit verification. If an FFRDC had cell counts that were more than 10% above or 10% below their prior year data, that center was flagged for edit verification. In almost all of these cases, respondents were able to verify their data and reconcile any differences. Four centers did not verify their data; for all but one of these centers, the changes were not greater than a difference of 10 postdocs in any given cell. As a result, RTI determined that the changes in the cell counts were minor and did not require further follow-up. After repeated follow-up attempts, the Jet Propulsion Laboratory did not confirm or disconfirm that the changes for this year were valid.

RTI also provided general survey support via e-mail and telephone, answering questions about survey items and referring respondents' questions to NSF as appropriate. In most cases, questions could be answered by referring respondents to the survey definitions.

5. RESULTS AND DISCUSSION

Data on the number of postdocs by source of support, citizenship, and sex were collected for all eligible centers and are displayed in Tables 4 through 7. NIH is believed to be the largest employer of postdocs in the federal government. The FFRDC survey is a first step in collecting information on postdocs employed in federal agencies. As such, data for the NIH are provided in Table 8, although it is not an FFRDC. Appendix E provides summary tables combining the data for all centers from 2004 to 2007.

TABLE 4. Postdoctorates at federally funded research and development centers, by citizenship, source of support, and sex: 2007

FFRDC	Citizenship			Source of support		Sex	
	All postdoctorates	U.S. citizens and permanent residents	Temporary visa holders	Federal support	Nonfederal support	Male	Female
All FFRDCs	2,235	899	1,336	2,030	205	1,461	450
Ames Lab.	50	5	45	50	0	40	10
Argonne National Lab.	146	27	119	146	0	106	40
Brookhaven National Lab.	142	33	109	0	142	105	37
Fermi National Accelerator Lab.	59	22	37	59	0	48	11
ID National Lab.	16	5	11	15	1	14	2
Jet Propulsion Lab.	102	39	63	102	0	79	23
Lawrence Berkeley National Lab.	303	84	219	282	21	228	75
Lawrence Livermore National Lab.	138	95	43	138	0	93	45
Los Alamos National Lab.	365	182	183	347	18	290	75
National Astronomy and Ionosphere Ctr.	3	0	3	3	0	2	1
National Cancer Institute-Frederick	324	148	176	324	0	NA	NA
National Ctr. for Atmospheric Research Ctr.	32	12	20	25	7	16	16
National Optical Astronomy Observatory	18	9	9	18	0	18	0
National Radio Astronomy Observatory	22	12	10	19	3	18	4
National Renewable Energy Lab.	43	19	24	43	0	36	7
Oak Ridge National Lab.	158	56	102	158	0	119	39
Pacific Northwest National Lab.	100	39	61	100	0	75	25
Princeton Plasma Physics Lab.	4	1	3	4	0	3	1
Sandia National Labs.	113	77	36	107	6	89	24
Savannah River National Lab.	11	10	1	11	0	7	4
Stanford Linear Accelerator Ctr.	57	17	40	50	7	48	9
Thomas Jefferson National Accelerator Facility	29	7	22	29	0	27	2

NA = not available; details for sex may not sum to total.

FFRDC = federally funded research and development center.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Postdoctorates at Federally Funded Research and Development Centers, FY 2007.

TABLE 5. Postdoctorates at federally funded research and development centers, source of support by citizenship: 2007

FFRDC	All postdoctorates	Source of support					
		Federal			Nonfederal		
		Total federal	U.S. citizens and permanent residents	Temporary visa holders	Total nonfederal	U.S. citizens and permanent residents	Temporary visa holders
All FFRDCs	2,235	2,030	837	1,193	205	62	143
Ames Lab.	50	50	5	45	0	0	0
Argonne National Lab.	146	146	27	119	0	0	0
Brookhaven National Lab.	142	0	0	0	142	33	109
Fermi National Accelerator Lab.	59	59	22	37	0	0	0
ID National Lab.	16	15	5	10	1	0	1
Jet Propulsion Lab.	102	102	39	63	0	0	0
Lawrence Berkeley National Lab.	303	282	78	204	21	6	15
Lawrence Livermore National Lab.	138	138	95	43	0	0	0
Los Alamos National Lab.	365	347	173	174	18	9	9
National Astronomy and Ionosphere Ctr.	3	3	0	3	0	0	0
National Cancer Institute-Frederick	324	324	148	176	0	0	0
National Ctr. for Atmospheric Research Ctr.	32	25	11	14	7	1	6
National Optical Astronomy Observatory	18	18	9	9	0	0	0
National Radio Astronomy Observatory	22	19	12	7	3	0	3
National Renewable Energy Lab.	43	43	19	24	0	0	0
Oak Ridge National Lab.	158	158	56	102	0	0	0
Pacific Northwest National Lab.	100	100	39	61	0	0	0
Princeton Plasma Physics Lab.	4	4	1	3	0	0	0
Sandia National Labs.	113	107	71	36	6	6	0
Savannah River National Lab.	11	11	10	1	0	0	0
Stanford Linear Accelerator Ctr.	57	50	10	40	7	7	0
Thomas Jefferson National Accelerator Facility	29	29	7	22	0	0	0

FFRDC = federally funded research and development center.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Postdoctorates at Federally Funded Research and Development Centers, FY 2007.

TABLE 6. Postdoctorates at federally funded research and development centers, sex by citizenship: 2007

FFRDC	All postdoctorates	Sex ^a					
		Male			Female		
		Total male	U.S. citizens and permanent residents	Temporary visa holders	Total female	U.S. citizens and permanent residents	Temporary visa holders
All FFRDCs	2,235	1,461	555	906	450	197	253
Ames Lab.	50	40	3	37	10	2	8
Argonne National Lab.	146	106	20	86	40	7	33
Brookhaven National Lab.	142	105	19	86	37	14	23
Fermi National Accelerator Lab.	59	48	16	32	11	6	5
ID National Lab.	16	14	4	10	2	1	1
Jet Propulsion Lab.	102	79	27	52	23	12	11
Lawrence Berkeley National Lab.	303	228	60	168	75	24	51
Lawrence Livermore National Lab.	138	93	62	31	45	33	12
Los Alamos National Lab.	365	290	137	153	75	45	30
National Astronomy and Ionosphere Ctr.	3	2	0	2	1	0	1
National Cancer Institute -Frederick	324	NA	NA	NA	NA	NA	NA
National Ctr. for Atmospheric Research Ctr.	32	16	7	9	16	5	11
National Optical Astronomy Observatory	18	18	9	9	0	0	0
National Radio Astronomy Observatory	22	18	12	6	4	0	4
National Renewable Energy Lab.	43	36	15	21	7	4	3
Oak Ridge National Lab.	158	119	47	72	39	9	30
Pacific Northwest National Lab.	100	75	30	45	25	9	16
Princeton Plasma Physics Lab.	4	3	1	2	1	0	1
Sandia National Labs.	113	89	60	29	24	17	7
Savannah River National Lab.	11	7	7	0	4	3	1
Stanford Linear Accelerator Ctr.	57	48	13	35	9	5	4
Thomas Jefferson National Accelerator Facility	29	27	6	21	2	1	1

NA = not available; details for sex may not sum to total.

FFRDC = federally funded research and development center.

^a Data by sex were not provided by all FFRDCs.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Postdoctorates at Federally Funded Research and Development Centers, FY 2007.

TABLE 7. Postdoctorates at federally funded research and development centers, by source of support, sex, and citizenship: 2007

Source of support and sex	All postdoctorates	Citizenship	
		U.S. citizens and permanent residents	Temporary visa holders
All postdoctorates	2,235	899	1,336
Federal support	2,030	837	1,193
Nonfederal support	205	62	143
Postdoctorates reporting sex ^a	1,911	752	1,159
Male	1,461	555	906
Female	450	197	253

FFRDC = federally funded research and development center.

^a Data by sex were not provided by all FFRDCs; details may not sum to total.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Postdoctorates at Federally Funded Research and Development Centers, FY 2007.

TABLE 8. Postdoctorates at National Institutes of Health Intramural Research program, primary source of support by citizenship: 2007

Program	All postdoctorates	Source of support					
		Federal			Nonfederal		
		Total federal	U.S. citizens and permanent residents	Temporary visa holders	Total nonfederal	U.S. citizens and permanent residents	Temporary visa holders
National Institutes of Health Intramural Research	3,367	3,250	1,302	1,948	117	112	105

FFRDC = federally funded research and development center.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Postdoctorates at Federally Funded Research and Development Centers, FY 2007.

Source of Support

The vast majority of postdocs, 91% of the total, are primarily supported by federal funds. Of the FFRDCs that reported having postdocs, only one (Brookhaven National Laboratory) reported having no postdocs who were receiving federal support (Table 4). Overall, nonfederal support was higher among temporary visa holders, particularly in the Brookhaven National Laboratory, where they accounted for over 75% of the postdocs receiving nonfederal support (Table 5).

Citizenship

At the FFRDCs reporting postdocs, temporary visa holders outnumbered U.S. citizens and permanent residents in all categories. Postdocs with temporary visas made up 60% of the total number of postdocs, 59% of the postdocs receiving federal support, 70% of the postdocs receiving nonfederal support, 62% of male postdocs, and 56% of female postdocs (Table 7).

Sex

FFRDCs that reported sex of postdocs had more than 3 times the number of male postdocs as female postdocs. Of the centers reporting more than 5 postdocs, the following had the highest proportion of female postdocs: National Center for Atmospheric Research Center/University Corporation for Atmospheric Research (50%), National Optical Astronomy Observatory (33.3%), Lawrence Livermore National Laboratory (33.2%), and Pacific Northwest National Laboratory (25%).

6. REFERENCES

American Association for Public Opinion Research. 2008. *Standard Definitions: Final Dispositions of Case Codes and Outcome Rates for Surveys, 5th ed.* Lenexa, KS.

National Science Foundation. 2006. *Federal Funds for Research and Development: Fiscal Years 2003–05.* Arlington, VA. Available at <http://www.nsf.gov/statistics/nsf06313/pdf/nsf06313.pdf>.

APPENDIX A:
MASTER LIST OF FFRDCs, JANUARY 1, 2008

APPENDIX A. Master list of FFRDCs, January 1, 2008

FFRDC

Aerospace FFRDC
Ames Lab., U.S. Department of Energy
Argonne National Lab.
Brookhaven National Lab.
Ctr. for Advanced Aviation Systems Development
Ctr. for Enterprise Modernization
Ctr. for Naval Analyses
Ctr. for Nuclear Waste Regulatory Analyses
Command, Control, Communications, and Intelligence FFRDC
Fermi National Accelerator Lab.
Homeland Security Institute
ID National Lab.
Institute for Defense Analyses Communications and Computing FFRDC
Institute for Defense Analyses Studies and Analyses FFRDC
Jet Propulsion Lab.
Lawrence Berkeley National Lab.
Lawrence Livermore National Lab.
Lincoln Lab.
Los Alamos National Lab.
National Astronomy and Ionosphere Ctr.
National Biodefense Analysis and Countermeasures Ctr.
National Cancer Institute - Frederick
National Ctr. for Atmospheric Research Ctr. / U. Corp. for Atmospheric Research
National Defense Research Institute
National Optical Astronomy Observatory
National Radio Astronomy Observatory
National Renewable Energy Lab.
Oak Ridge National Lab.
Pacific Northwest National Lab.
Princeton Plasma Physics Lab.
Project Air Force
RAND Arroyo Ctr.
Sandia National Labs.
Savannah River National Lab.
Science and Technology Policy Institute
Software Engineering Institute
Stanford Linear Accelerator Ctr.
Thomas Jefferson National Accelerator Facility

FFRDC = federally funded research and development center.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Postdoctorates at Federally Funded Research and Development Centers, FY 2007.

APPENDIX B:
FFRDC SURVEY COVER LETTER AND INSTRUMENT

SUBJECT: NSF-NIH SURVEY OF POSTDOCTORATES AT FFRDCs

I am writing to invite you to join with Federally Funded Research and Development Centers (FFRDCs) across the country in participating in the National Science Foundation (NSF) Survey of postdoctoral appointees at FFRDCs. Your postdoctoral program serves as an important national resource in developing our Nation's most talented researchers.

The director of your center identified you as the most appropriate individual to respond to the survey, which is attached here. Please complete the survey form and return it by March 17 via one of the following methods:

Email: FFRDC@rti.org

Fax: (800) 476-9721

If you are no longer the correct person to respond to this survey, or if you have any questions, please contact me at FFRDC@rti.org or (866) 253-1631. You may also contact the survey manager, Julia Oliver of the Division of Science Resources Statistics at NSF at (703) 292-7809 (joliver@nsf.gov).

Thank you for your cooperation, and we look forward to working with you!

Sincerely,

Emily McFarlane, M.A.
RTI International
3040 E Cornwallis Rd
PO Box 12194
Durham, NC 27709
(866) 253-1631
(800) 476-9721 (fax)

**National Science Foundation
2008 Survey of Postdoctorates at Federally Funded
Research and Development Centers**

General Information and Instructions

A) BACKGROUND INFORMATION

The survey collects data on postdoctoral appointees by Federal or non-Federal support (Item 2), sex (Item 3), and citizenship status (Items 2 and 3). Your cooperation in returning the survey promptly is very important.

Results from this survey will help provide NSF with a comprehensive picture of the training of the Nation's postdoctoral appointees in science, engineering, and health-related fields. The data are used by Congress and the executive branch during budget preparation to assess the state of science, engineering, and health-related personnel.

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

B) PLEASE SUBMIT YOUR SURVEY BY MARCH 17, 2008.

Return completed surveys by e-mail to FFRDC@rti.org or fax to (800) 476-9721. For general questions, you may also contact Julia Oliver, the NSF survey manager, at joliver@nsf.gov or (703) 292-7809.

C) INSTRUCTIONS

- 1) Save this file to your hard drive.
- 2) Please provide counts for your center using the reference date of **January 1, 2008**.
- 3) Use the worksheet tabs to navigate between the four pages of the survey: General Information, Item 1: Coordinator Information, Item 2: Support by Citizenship Status, and Item 3: Sex by Citizenship Status.
- 4) Please read the instructions for each survey page (or tab) and provide the information requested.
- 5) If items need to be provided by more than one person, please have each individual return the information to the Center Coordinator for submission to NSF.
- 6) Return completed surveys by e-mail to FFRDC@rti.org or fax to (800) 476-9721.

SURVEY HELP

For survey help, please contact Emily McFarlane at FFRDC@rti.org or (866) 253-1631.

Please Go to Item 1: Coordinator Information.

**National Science Foundation
2008 Survey of Postdoctorates at Federally Funded
Research and Development Centers**

Item 1: Coordinator Information

A) INSTRUCTIONS: Please complete the information requested below. If items need to be provided by more than one person, please have each individual return the information to the Center Coordinator for submission to NSF.

Item 1: Coordinator Information

Center Name:

Respondent Name:

Respondent Telephone (XXX-XXX-XXXX):

Respondent E-mail Address:

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

B) PLEASE SUBMIT YOUR SURVEY BY MARCH 17, 2008.

SURVEY HELP

For survey help, please contact Emily McFarlane at FFRDC@rti.org or (866) 253-1631.

Please Go to Item 2: Support by Citizenship Status.

National Science Foundation 2008 Survey of Postdoctorates at Federally Funded Research and Development Centers Item 2: Support by Citizenship Status

A) DEFINITIONS

POSTDOCTORAL A postdoc is defined as meeting both of the following qualifications:

- APPOINTEES:**
1. Holds a recent doctoral degree, generally awarded within the last 5 years, such as:
 - PhD or equivalent (e.g., ScD or DEng) or
 - First professional degree in a medical or related field (MD, DDS, DO, DVM) or
 - Foreign equivalent to a U.S. doctoral degree
 2. Has a limited-term appointment, generally 5-7 years:
 - Primarily for training in research or scholarship and
 - Working under the supervision of a senior scholar in a unit affiliated with your institution.

U.S. CITIZENS: All U.S. citizens and permanent residents holding green cards.

FOREIGN TEMPORARY VISA HOLDERS: Include all postdoctoral appointees who are in this country on temporary visas. Postdoctoral appointees

VISA HOLDERS: who are native residents of a U.S. possession or are permanent residents holding green cards should be included under U.S. citizens.

FEDERAL SUPPORT: Postdoctoral support provided by a Federal agency such as the Department of Defense, Department of Energy, National Institutes of Health, or National Science Foundation

NON-FEDERAL SUPPORT: Postdoctoral support provided by a non-Federal source such as private industry, a nonprofit, or an academic institution

B) PLEASE SUBMIT YOUR SURVEY BY MARCH 17, 2008.

C) INSTRUCTIONS:

- In columns B and C, please report the number of postdoctoral appointees in column A who receive Federal support (column B) versus non-Federal support (column C) as of January 1, 2008. Report postdocs by their largest source of support.
- In rows 2 and 3, report the number of postdocs in row 1 who are U.S. Citizens or permanent residents (row 2) versus foreign temporary visa holders (row 3).

Item 2: Support by Citizenship Status

How many postdoctoral appointees worked at your Center as of January 1, 2008?		TOTAL (Column A)	Source of Support	
			Of the total in column A, how many have FEDERAL SUPPORT? (Column B)	Of the total in column A, how many have NON- FEDERAL SUPPORT? (Column C)
Please report the TOTAL number of individual postdoctoral appointees at your Center.	(Row 1)			
Of the total in row 1, how many are U.S. CITIZENS OR PERMANENT RESIDENTS?	(Row 2)			
Of the total in row 1, how many are FOREIGN TEMPORARY VISA HOLDERS?	(Row 3)			

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

SURVEY HELP

For survey help, please contact Emily McFarlane at FFRDC@rti.org or (866) 253-1631.

Please Go to Item 3: Sex by Citizenship Status.

**National Science Foundation
2008 Survey of Postdoctorates at Federally Funded
Research and Development Centers**

Item 3: Sex by Citizenship Status

A) DEFINITIONS

POSTDOCTORAL: A postdoc is defined as meeting both of the following qualifications:

APPOINTEES: 1. Holds a recent doctoral degree, generally awarded within the last 5 years, such as:

- PhD or equivalent (e.g., ScD or DEng) or
- First professional degree in a medical or related field (MD, DDS, DO, DVM) or
- Foreign equivalent to a U.S. doctoral degree

2. Has a limited-term appointment, generally 5-7 years:

- Primarily for training in research or scholarship and
- Working under the supervision of a senior scholar in a unit affiliated with your institution.

U.S. CITIZENS: All U.S. citizens and permanent residents holding green cards.

FOREIGN TEMPORARY: Include all postdoctoral appointees who are in this country on temporary visas. Postdoctoral appointees

VISA HOLDERS: who are native residents of a U.S. possession or are permanent residents holding green cards should be included under U.S. citizens.

B) PLEASE SUBMIT YOUR SURVEY BY MARCH 17, 2008.

C) INSTRUCTIONS:

- In columns B and C, please report the number of postdocs in column A who are male (column B) versus female (column C) as of January 1, 2008.
- In rows 2 and 3, report the number of postdocs in row 1 who are U.S. Citizens or permanent residents (row 2) versus foreign temporary visa holders (row 3).

Item 3: Sex by Citizenship Status

How many postdoctoral appointees worked at your Center as of January 1, 2008?		TOTAL (Column A)	Source of Support	
			Of the total in column A, how many are Male? (Column B)	Of the total in column A, how many are Female? (Column C)
Please report the TOTAL number of individual postdoctoral appointees at your Center.	(Row 1)			
Of the total in row 1, how many are U.S. CITIZENS OR PERMANENT RESIDENTS?	(Row 2)			
Of the total in row 1, how many are FOREIGN TEMPORARY VISA HOLDERS?	(Row 3)			

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

SURVEY HELP

For survey help, please contact Emily McFarlane at FFRDC@rti.org or (866) 253-1631.

**Please save your completed survey and return it to Emily McFarlane by e-mail to
FFRDC@rti.org or fax to (800) 476-9721.**

APPENDIX C:
RESPONDENT COMMUNICATION MATERIALS

DATA COLLECTION PLAN AND MATERIALS

Included in this report are the data collection plan and data collection materials.

A. PRE-DATA COLLECTION – *Friday, January 4 – Friday, February 8, 2008*

1. FedEx Letter to FFRDC directors: Pre-data collection activities will start with a letter (and copy of the survey) sent via FedEx to the 2007 FFRDC director (*Monday, January 7, 2008*). Directors will be asked to reply to Emily McFarlane via e-mail (FFRDC@rti.org) or the toll-free number (866-253-1631) verifying who the respondent should be or asking them to identify a respondent. Both e-mail and telephone will be monitored by Emily McFarlane, Jordan Hudson, and Eric Zwiieg. All information will be noted. All bounce-backs will be noted and will require locating efforts. [E-mail to directors to confirm respondents] [E-mail to directors to identify respondents]

2. First Follow-up E-mail to Nonresponding Directors: If RTI has not received a response from the director after one week, an e-mail prompt will be sent (*Monday, January 14, 2008*). Again, any bounce-backs and any new information will be recorded. [First Follow-up E-mail to Nonresponding Directors]

3. First Follow-up Call to Nonresponding Directors: If there is no response after two weeks, project staff will contact the FFRDC directors by telephone to verify the respondent information (*Monday, January 21 – Friday, January 25, 2008*). [Director Nonresponse Telephone Script]

4. Second Follow-up E-mail to Nonresponding Directors: If RTI has not received a response from the director by January 23, an e-mail prompt will be sent (*Wednesday, January 23, 2008*). Again, any bounce-backs and any new information will be recorded. [Second Follow-up E-mail to Nonresponding Directors]

5. Second Follow-up Call to Nonresponding Directors: If there is no response by February 4, project staff will contact the FFRDC directors by telephone to verify the respondent information (*Monday, February 4 – Friday, February 8, 2008*). [Second Director Nonresponse Telephone Script]

B. DATA COLLECTION – *Monday, February 4, 2008 – Monday, April 14, 2008*

6. Kick-off E-mail to Respondents: Data collection will begin when respondents are sent the survey kick-off e-mail and a copy of the survey. [Respondent Kick-off E-mail]

7. First E-mail Prompt for Nonresponders: Two weeks after the kick-off e-mail (*Monday, February 18*), nonresponders will be sent an e-mail prompt asking them to complete the survey (an additional copy of the survey will be provided). [First E-mail Prompt for Nonresponders]

8. Second E-mail Prompt for Nonresponders: Four weeks after the kick-off e-mail (*Monday, March 3*), nonresponders will be sent an e-mail prompt asking them to complete the survey (an additional copy of the survey will be provided). [Second E-mail Prompt for Nonresponders]

9. Third E-mail Prompt for Nonresponders: One day after the survey due date (*Tuesday, March 18*), nonresponders will be sent an e-mail prompt asking them to complete the survey (an additional copy of the survey will be provided). [Third E-mail Prompt for Nonresponders]

10. First Telephone Prompt for Nonresponders: One day after the survey due date, RTI project staff will begin telephone calls prompting respondents to complete the survey (*Tuesday, March 18 – Friday, March 21, 2008*). [First Telephone Script for Nonresponders]

11. Fourth E-mail Prompt for Nonresponders: One week after the survey due date (*Monday, March 24*), nonresponders will be sent an e-mail prompt asking them to complete the survey. [Fourth Email Prompt for Nonresponders]. [Fourth Email Prompt for Nonresponders] (an additional copy of the survey will be provided).

12. Second Telephone Prompt for Nonresponders: One week after the survey due date, RTI project staff will begin telephone calls prompting respondents to complete the survey (*Monday, March 24 – Friday, March 28, 2008*). [Second Telephone Script for Nonresponders]

13. Letter Reminder with Copy to Director: Two weeks after the survey due date, RTI project staff will FedEx a letter to the respondent and FFRDC director urging the respondent to complete the survey (an additional copy of the survey will be provided) (*Monday, March 31, 2008*). [Letter with Copy to Director]

C. RESPONSES – January 2008 – April 2008

Thank You Correspondence

14. Thank You E-mail to the Director and Thank You E-mail to the Respondent – ongoing basis when survey is complete: A thank you e-mail will be sent to the directors, thanking them for providing the respondent contact information. A thank you letter will be sent to the respondents confirming receipt of their survey and thanking them for participating. [Thank You E-mail to Director] [Thank You E-mail to Respondent]

Incomplete Data/Inconsistent Data

15. Incomplete Data: If any FFRDC has provided incomplete or inconsistent data (as determined by the edit and consistency checks), RTI project staff will follow up with them to try to correct it.

No Postdocs

16. No Postdocs: If any FFRDCs report that they have no postdocs, RTI project staff will follow up to confirm that they do not have any postdocs. [No Postdocs E-mail]

1A. DIRECTOR'S LETTER WITH RESPONDENT

[NSF Letterhead]

Monday, January 7, 2008

[Insert FFRDC head's name,
name of center, and
address]

Dear [Insert title and last name]:

We invite you to join with Federally Funded Research and Development Centers (FFRDCs) across the country in this National Science Foundation (NSF) survey of postdoctoral appointees at FFRDCs. Your postdoctoral program serves as an important national resource in developing our Nation's most talented researchers.

To obtain the most accurate information, it is important that a person knowledgeable about postdocs at the (CENTER NAME) responds. Last year, the following person responded for your center:

Name: [CONTACT NAME]

Phone: [CONTACT PHONE]

Email: [CONTACT EMAIL]

Please contact us to confirm that the name above is still the right person for this year's survey or to provide the contact information for name of an alternative respondent. You may verify the respondent by either emailing Emily McFarlane at FFRDC@rti.org or calling her at (866) 253-1631.

The NSF collects information annually on the number of postdoctoral appointees in science, engineering and health-related programs at the Nation's colleges, universities, and FFRDCs. The results of this survey are important to assess trends in financial support patterns and shifts in numbers of postdoctoral appointees at FFRDCs. While your center's participation in this survey is voluntary, I am certain that you appreciate the importance of this effort.

I have attached a copy of this year's survey form for reference. If you have any questions, please contact Emily McFarlane at (866) 253-1631 (FFRDC@rti.org) or you may contact the survey manager, Julia Oliver, of the Division of Science Resources Statistics at NSF at (703) 292-7809 (joliver@nsf.gov). Thank you for your cooperation, and we look forward to working with you.

Sincerely,

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

1B. DIRECTOR'S LETTER WITH NO RESPONDENT

[NSF Letterhead]

Monday, January 7, 2008

MAKE SAME CHANGES AS IN LETTER 1A.

[Insert FFRDC head's name,
name of center, and
address]

Dear [Insert title and last name]:

We invite you to join with Federally Funded Research and Development Centers (FFRDCs) across the country in this National Science Foundation (NSF) survey of postdoctoral appointees at FFRDCs. Your postdoctoral program serves as an important national resource in developing our Nation's most talented researchers.

In order to obtain the most accurate information about the postdoctoral appointees at the [CENTER NAME], it is important that a person knowledgeable about postdocs coordinates your response. We want to know about the number of postdoctoral appointees by sex, citizenship and source of funding (Federal vs. non-Federal). Please contact us to provide the name of the person at your center who would be the best respondent to provide the data. You may send their contact information (name, phone number and email) by either emailing Emily McFarlane at FFRDC@rti.org or calling her at (866) 253-1631.

The NSF collects information annually on the number of postdoctoral appointees in science, engineering and health-related programs at the Nation's colleges, universities, and FFRDCs. The results of this survey are important to assess trends in financial support patterns and shifts in numbers of postdoctoral appointees at FFRDCs. While your center's participation in this survey is voluntary, I am certain that you appreciate the importance of this effort.

I have attached a copy of this year's survey form for reference. If you have any questions, please contact Emily McFarlane at (866) 253-1631 (FFRDC@rti.org) or you may contact the survey manager, Julia Oliver of the Division of Science Resources Statistics at NSF at (703) 292-7809 (joliver@nsf.gov). Thank you for your cooperation, and we look forward to working with you.

Sincerely,

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

2. FIRST FOLLOW-UP E-MAIL TO NONRESPONDING DIRECTORS

On January 7, 2008, we sent you a letter inviting you to join with Federally Funded Research and Development Centers (FFRDCs) across the country in participating in the NSF Survey of Postdoctoral appointees at FFRDCs. We have not yet received a reply. Your response is important and will help the National Science Foundation understand early-career scientists and engineers, including postdoctoral researchers (postdocs) If you have not yet participated in the study, there is still time. We acknowledge you have a very busy schedule and appreciate the time you will set aside to respond to this study request. If you have participated already, we thank you and please accept our apology for multiple contacts.

[IF PREVIOUS RESPONDENT: In order to obtain the most accurate information, it is important that a person knowledgeable about postdocs coordinates your response. Last year, the following person responded for your center.:

Name: [CONTACT NAME]
Phone: [CONTACT PHONE]
Email: [CONTACT EMAIL]

Please contact us to confirm that the name above is still the right person for this year's survey or to provide the contact information for name of alternative respondent. You may verify the respondent by either emailing Emily McFarlane at FFRDC@rti.org or calling her at (866) 253-1631.]

[IF NO PREVIOUS RESPONDENT: Please contact us with the name of the individual who will provide us with the information on postdocs at (CENTER NAME). You may identify the respondent by either emailing Emily McFarlane at FFRDC@rti.org or calling her at (866) 253-1631.]

Emily McFarlane, M.A.
RTI International
3040 E Cornwallis Rd
PO Box 12194
Durham, NC 27709
(866) 253-1631
(800) 476-9721 (fax)

3. DIRECTOR NONRESPONSE TELEPHONE SCRIPT

Hello, my name is (). I'm calling from RTI on behalf of the National Science Foundation This call is about the 2008 study on postdoctoral appointees in Federally Funded Research and Development Centers (FFRDCs). I wanted to check in with you to make sure that you received the materials we sent.

Did you receive the January Fed Ex mailing and the email about the survey?

[If Yes:] As you know, we are asking all directors to identify the best person to respond to this study. **[IF PREVIOUS RESPONDENT:** Last year [FILL NAME] served as the respondent. Is this still the best person?

[If No:] We are asking all directors to identify the best person at their center to be the respondent for this study. Can you identify who at your center would be the best person? **[IF PREVIOUS RESPONDENT:** Last year [FILL NAME] served as the respondent. Is this person still the best respondent?

[Describe purpose of study if necessary.]

Thank you for your assistance.

VOICEMAIL SCRIPT:

Hi, I'm _____ from RTI calling on behalf of the National Science Foundation. I wanted to confirm that you received the materials we sent about the study on postdoctoral appointees in Federally Funded Research and Development Centers (FFRDCs). We would like to identify the best respondent at your center to provide the data. Please email me or call me back at your earliest convenience. My e-mail address is FFRDC@rti.org and my phone number is: _____.

4. SECOND FOLLOW-UP E-MAIL TO NONRESPONDING DIRECTORS

A few weeks ago, we sent you a letter and email inviting you to join with Federally Funded Research and Development Centers across the country in a study about postdocs. We have not yet received your reply. Your postdoctoral program serves as an important national resource in developing our Nation's most talented researchers.

Your response is important and will help the National Science Foundation understand early-career scientists and engineers, including postdoctoral researchers (postdocs) If you have not yet participated in the study, there is still time. We acknowledge you have a very busy schedule and appreciate the time you will set aside to respond to this study request. If you have participated already, we thank you and please accept our apology for multiple contacts.

[IF PREVIOUS RESPONDENT: In order to obtain the most accurate information, it is important that a person knowledgeable about postdocs coordinates your response. Last year's respondent was:

Name: [CONTACT NAME]

Phone: [CONTACT PHONE]

Email: [CONTACT EMAIL]

Please contact us to confirm that the name above is still the right person for this year's survey or to provide the contact information for name of alternative respondent. You may verify the respondent by either emailing Emily McFarlane at FFRDC@rti.org or calling her at (866) 253-1631.]

[IF NO PREVIOUS RESPONDENT: Please contact us with the name of the individual who will provide us with the information on postdocs at (CENTER NAME). You may identify the respondent by either emailing Emily McFarlane at FFRDC@rti.org or calling her at (866) 253-1631.]

Emily McFarlane, M.A.
RTI International
3040 E Cornwallis Rd
PO Box 12194
Durham, NC 27709
(866) 253-1631
(800) 476-9721 (fax)

5. SECOND DIRECTOR NONRESPONSE TELEPHONE SCRIPT

Hello,

My name is [FILL NAME] from RTI International calling on behalf of the National Science Foundation. Previously, we sent you materials inviting you to participate in a study about postdoctoral appointees at Federally Funded Research and Development Centers. We have not heard from you and we wanted to make sure you had an opportunity to respond.

To obtain the most accurate information, it is important that a person knowledgeable about postdocs responds to our survey.

[IF PREVIOUS RESPONDENT: Last year the following persons responded for (CENTER NAME):

Name: [CONTACT NAME]

Is this still the correct person?

IF YES:

Is this their correct contact information?

Phone: [CONTACT PHONE]

Email: [CONTACT EMAIL]

UPDATE AS NECESSARY

IF NO:

Who is the correct person?

What is their name, title, phone number and email?]

UPDATE AS NECESSARY

Thank you for your assistance.

6. RESPONDENT KICK-OFF E-MAIL

Subject: NSF-NIH Survey of Postdoctorates at FFRDCs

I am writing to invite you to join with Federally Funded Research and Development Centers (FFRDCs) across the country in participating in the National Science Foundation (NSF) Survey of postdoctoral appointees at FFRDCs. Your postdoctoral program serves as an important national resource in developing our Nation's most talented researchers.

The director of your center identified you as the most appropriate individual to respond to the survey, which is attached here. Please complete the survey form and return it by March 17 via one of the following methods:

Email: FFRDC@rti.org
Fax: (800) 476-9721

If you are no longer the correct person to respond to this survey, or if you have any questions, please contact me at FFRDC@rti.org or (866) 253-1631. You may also contact the survey manager, Julia Oliver of the Division of Science Resources Statistics at NSF at (703) 292-7809 (joliver@nsf.gov).

Thank you for your cooperation, and we look forward to working with you!

Sincerely,

Emily McFarlane, M.A.
RTI International
3040 E Cornwallis Rd
PO Box 12194
Durham, NC 27709
(866) 253-1631
(800) 476-9721 (fax)

7. FIRST E-MAIL PROMPT FOR NONRESPONDERS

I am writing to confirm that you received the National Science Foundation (NSF) Survey of Postdoctoral Appointees at Federally Funded Research and Development Centers (FFRDCs) that was sent on February 4. If you did not receive the survey form, or if you had any problems with the document, or if you think you are not the appropriate person to complete the survey, please contact me at (866) 253-1631 or at FFRDC@rti.org. Otherwise, please complete the form and return the data by March 17 via one of the following methods:

E-mail: FFRDC@rti.org

Fax: (800) 476-9721

If you have any questions about the survey, please feel free to contact me, or contact the survey manager, Julia Oliver of the Division of Science Resources Statistics at NSF at (703) 292-7809 (joliver@nsf.gov).

Thank you for your cooperation.

Emily McFarlane, M.A.
RTI International
3040 E Cornwallis Rd
PO Box 12194
Durham, NC 27709
(866) 253-1631
(800) 476-9721 (fax)

8. SECOND E-MAIL PROMPT FOR NONRESPONDERS

This is a reminder that the National Science Foundation (NSF) Survey of Postdoctoral Appointees at Federally Funded Research and Development Centers (FFRDCs) is due on Monday, March 17. Please complete the form and return the data via one of the following methods:

E-mail: FFRDC@rti.org

Fax: (800) 476-9721

If you have questions or encounter any problems with the survey or if you are no longer the correct person to respond to this survey, please contact me at the number below or contact the survey manager, Julia Oliver of the Division of Science Resources Statistics at NSF at (703) 292-7809 (joliver@nsf.gov).

Thank you for your cooperation.

Emily McFarlane, M.A.
RTI International
3040 E Cornwallis Rd
PO Box 12194
Durham, NC 27709
(866) 253-1631
(800) 476-9721 (fax)

9. THIRD E-MAIL PROMPT FOR NONRESPONDERS

I am writing to remind you that the National Science Foundation (NSF) Survey of Postdoctoral Appointees at Federally Funded Research and Development Centers (FFRDCs) **was due on Monday, March 17**. Please complete the form as soon as possible and return the data via one of the following methods:

E-mail: FFRDC@rti.org
Fax: (800) 476-9721

If you are having problems with the survey or if you are no longer the correct person to respond to this survey, or if you have any questions, please contact me at the number below or contact the survey manager, Julia Oliver of the Division of Science Resources Statistics at NSF at (703) 292-7809 (joliver@nsf.gov).

Thank you for your cooperation.

Emily McFarlane, M.A.
RTI International
3040 E Cornwallis Rd
PO Box 12194
Durham, NC 27709
(866) 253-1631
(800) 476-9721 (fax)

11. FOURTH E-MAIL PROMPT FOR NONRESPONDERS

I am writing to remind you that the National Science Foundation (NSF) Survey of Postdoctoral appointees at Federally Funded Research and Development Centers (FFRDCs) **was due on Monday, March 17**. Please complete the form as soon as possible and return the data via one of the following methods:

E-mail: FFRDC@rti.org
Fax: (800) 476-9721

If you are having problems with the survey or if you are no longer the correct person to respond to this survey, or if you have any questions, please contact me at the number below or contact the survey manager, Julia Oliver of the Division of Science Resources Statistics at NSF at (703) 292-7809 (joliver@nsf.gov).

Thank you for your cooperation.

Emily McFarlane, M.A.
RTI International
3040 E Cornwallis Rd
PO Box 12194
Durham, NC 27709
(866) 253-1631
(800) 476-9721 (fax)

10. FIRST TELEPHONE SCRIPT FOR NONRESPONDERS

Hello, my name is (). I'm calling from RTI on behalf of the National Science Foundation. We are calling you about the 2008 Survey of Postdoctoral Appointees at Federally Funded Research and Development Centers. We asked respondents to complete the survey by March 17, 2008, but we have not received your response yet. I wanted to check in with you to make sure that you received the materials we sent. Did you receive the emails with the Excel survey?

[DID NOT RECEIVE SURVEY]

OBTAIN CONTACT INFORMATION AND RESEND SURVEY

[RECEIVED SURVEY]

Did you have any questions about the survey or anything that I can help you with?
When can we expect to receive your completed survey?

Thank you,

12. SECOND TELEPHONE SCRIPT FOR NONRESPONDERS

Hello, my name is (). I'm calling from RTI on behalf of the National Science Foundation. We are calling you about the 2008 Survey of Postdoctoral Appointees at Federally Funded Research and Development Centers. We asked respondents to complete the survey by March 17, 2008, but we still have not received your response yet.

Did you have any questions about the survey or anything that I can help you with?

When can we expect to receive your completed survey?

Thank you,

13. LETTER WITH COPY TO DIRECTOR

March 31, 2008

[Insert FFRDC head's name,
name of center, and
address]

Dear [Insert title and last name]:

Earlier this year [FILL DIRECTOR] identified you as the best respondent at your center to provide data for the NSF Survey of Postdoctoral Appointees at Federally Funded Research and Development Centers. The survey response was due on March 17, and we still have not yet received a response.

This is a final reminder to provide the data as soon as possible. For your convenience I have provided another copy of the survey. Please complete the form and return the data via one of the following methods:

E-mail: FFRDC@rti.org

Fax: (800) 476-9721

If you have questions or encounter any problems with the survey or if you are no longer the correct person to respond to this survey, please contact Emily McFarlane at (866) 253-1631 (FFRDC@rti.org) or contact the survey manager, Julia Oliver of the Division of Science Resources Statistics at NSF at (703) 292-7809 (joliver@nsf.gov).

Thank you for your cooperation.

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

16. E-MAIL TO FFRDCS WITH NO POSTDOCS

Thank you for your [phone call/email] of [DATE] concerning our FFRDC survey. During that contact you said that the [CENTER NAME] did not have postdoctoral appointees.

In our research, we have learned that some Centers use other personnel titles to identify “postdoctoral appointees.” These titles include “postdoctoral fellows,” “postdoctoral researchers,” and “research associates.” Prior to closing out our survey, we need to contact you once more to find out if your Center uses any of these other terms. If so, your Center should report data to us about individuals with these different titles.

Please respond to this e-mail or call me at (866) 253-1631 to either confirm that the [CENTER NAME] does not use one of these alternative terms or to request a copy of the survey so that your Center can submit data on these individuals. If you have any other questions, please feel free to contact me or contact the survey manager, Julia Oliver of the Division of Science Resources Statistics at NSF at (703) 292-7809 (joliver@nsf.gov).

Thank you for your patience and assistance.

APPENDIX D:
FFRDCs WITHOUT POSTDOCS

Appendix D. Ineligible centers for survey of postdoctorates at federally funded research and development centers, 2007

FFRDC

Aerospace FFRDC
Center for Advanced Aviation Systems Development
Center for Enterprise Modernization
Center for Naval Analyses
Center for Nuclear Waste Regulatory Analyses
Command, Control, Communications and Intelligence (C3I)
Homeland Security Institute
Institute for Defense Analyses Communications and Computing FFRDC
Institute for Defense Analyses Studies and Analyses FFRDC
Lincoln Lab.
National Biodefense Analysis and Countermeasures Ctr.
National Defense Research Institute (RAND)
Project Air Force
RAND Arroyo Ctr.
Science and Technology Policy Institute
Software Engineering Institute (Carnegie Mellon)

FFRDC = federally funded research and development center.

APPENDIX E:
SUMMARY TABLES FROM 2004 TO 2007

TABLE E-1. Total postdoctorates: 2004 - 2007

FFRDC	2004 postdoctorates	2005 postdoctorates	2006 postdoctorates	2007 postdoctorates
All FFRDCs	2,212	1,820	2,147	2,235
Ames Lab.	77	72	37	50
Argonne National Lab.	178	146	146	146
Brookhaven National Lab.	119	127	136	142
Fermi National Accelerator Lab.	47	52	57	59
ID National Lab.	19	7	10	16
Jet Propulsion Lab.	82	76	100	102
Lawrence Berkeley National Lab.	303	283	285	303
Lawrence Livermore National Lab.	222	139	145	138
Los Alamos National Lab.	406	323	365	365
National Astronomy and Ionosphere Ctr.	3	1	4	3
National Cancer Institute -Frederick	0	0	319	324
National Ctr. for Atmospheric Research Ctr.	66	73	56	32
National Optical Astronomy Observatory	9	6	22	18
National Radio Astronomy Observatory	23	17	21	22
National Renewable Energy Lab.	45	33	34	43
Oak Ridge National Lab.	150	143	158	158
Pacific Northwest National Lab.	136	100	45	100
Princeton Plasma Physics Lab.	7	11	2	4
Sandia National Labs.	127	142	113	113
Savannah River National Lab.	11	18	2	11
Stanford Linear Accelerator Ctr.	171	39	62	57
Thomas Jefferson National Accelerator Facility	11	12	28	29

FFRDC = federally funded research and development center.

NOTE: Interpret large changes between years with caution; numbers have been verified but changes may be the result of programmatic changes at the institutional level that were not tracked.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Postdoctorates at Federally Funded Research and Development Centers, 2004-2007.

TABLE E-2. Total postdoctorates, females and female temporary visa holders: 2004 - 2007

FFRDC	2004			2005			2006			2007		
	All postdocs	Females	Female temporary visa holders	All postdocs	Females	Female temporary visa holders	All postdocs	Females	Female temporary visa holders	All postdocs	Females	Female temporary visa holders
All FFRDCs	2,212	445	166	1,820	390	193	1,828	455	278	1,911	450	253
Ames Lab.	77	8	7	72	13	10	37	9	6	50	10	8
Argonne National Lab.	178	34	27	146	29	22	146	40	33	146	40	33
Brookhaven National Lab.	119	27	21	127	29	37	136	35	28	142	37	23
Fermi National Accelerator Lab.	47	12	10	52	15	13	57	10	4	59	11	5
ID National Lab.	19	5	0	7	3	NA	10	0	0	16	2	1
Jet Propulsion Lab.	82	25	0	76	21	13	100	33	24	102	23	11
Lawrence Berkeley National Lab.	303	73	0	283	76	NA	285	76	56	303	75	51
Lawrence Livermore National Lab.	222	58	23	139	29	13	145	41	13	138	45	12
Los Alamos National Lab.	406	75	35	323	54	27	365	75	42	365	75	30
National Astronomy and Ionosphere Ctr.	3	4	1	1	NA	NA	4	2	2	3	1	1
National Cancer Institute-Frederick	NA	NA	NA	NA	NA	NA	319	NA	NA	324	NA	NA
National Ctr. for Atmospheric Research Ctr.	66	26	9	73	23	10	56	30	19	32	16	11
National Optical Astronomy Observatory	9	1	1	6	NA	NA	22	8	3	18	0	0
National Radio Astronomy Observatory	23	4	3	17	5	2	21	4	4	22	4	4
National Renewable Energy Lab.	45	10	0	33	4	2	34	4	2	43	7	3
Oak Ridge National Lab.	150	28	23	143	31	19	158	32	20	158	39	30
Pacific Northwest National Lab.	136	25	0	100	23	12	45	15	8	100	25	16
Princeton Plasma Physics Lab.	7	0	0	11	NA	3	2	0	0	4	1	1
Sandia National Labs.	127	23	4	142	19	7	113	24	7	113	24	7
Savannah River National Lab.	11	4	0	18	6	NA	2	1	0	11	4	1
Stanford Linear Accelerator Ctr.	171	0	0	39	7	NA	62	13	5	57	9	4
Thomas Jefferson National Accelerator Facility	11	3	2	12	3	3	28	3	2	29	2	1

NA = not available;

FFRDC = federally funded research and development center.

NOTE: Interpret large changes between years with caution; numbers have been verified but changes may be the result of programmatic changes at the institution level that were not tracked.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Postdoctorates at Federally Funded Research and Development Centers, 2004-2007.

TABLE E-3. Postdoctorates by primary source of support: 2004 – 2007

FFRDC	2004		2005		2006		2007	
	Federal funding	Nonfederal funding						
Ames Lab.	47	30	47	25	37	0	50	0
Argonne National Lab.	NA	NA	NA	NA	146	0	146	0
Brookhaven National Lab.	NA	NA	NA	NA	0	136	0	142
Fermi National Accelerator Lab.	NA	NA	NA	NA	57	0	59	0
ID National Lab.	19	0	7	NA	10	0	15	1
Jet Propulsion Lab.	82	0	76	0	40	60	102	0
Lawrence Berkeley National Lab.	NA	NA	NA	NA	209	76	282	21
Lawrence Livermore National Lab.	NA	NA	139	NA	133	12	138	0
Los Alamos National Lab.	NA	NA	323	0	159	206	347	18
National Astronomy and Ionosphere Ctr.	1	2	1	NA	4	0	3	0
National Cancer Institute-Frederick	NA	NA	NA	NA	319	0	324	0
National Ctr. for Atmospheric Research Ctr.	66	0	73	NA	51	5	25	7
National Optical Astronomy Observatory	9	0	6	NA	22	0	18	0
National Radio Astronomy Observatory	23	0	17	NA	20	1	19	3
National Renewable Energy Lab.	45	0	33	NA	34	0	43	0
Oak Ridge National Lab.	150	0	143	NA	158	0	158	0
Pacific Northwest National Lab.	0	136	0	100	43	2	100	0
Princeton Plasma Physics Lab.	7	0	11	NA	2	0	4	0
Sandia National Labs.	NA	NA	142	0	107	6	107	6
Savannah River National Lab.	0	11	18	NA	2	0	11	0
Stanford Linear Accelerator Ctr.	171	0	39	NA	60	2	50	7
Thomas Jefferson National Accelerator Facility	11	0	12	NA	28	0	29	0

NA = not available.

FFRDC = federally funded research and development center.

NOTE: Interpret large changes between years with caution; numbers have been verified but changes may be the result of programmatic changes at the institutional level that were not tracked.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Postdoctorates at Federally Funded Research and Development Centers, 2004-2007.

TABLE E-4. Postdoctorates by citizenship: 2004 - 2007

	2004		2005		2006		2007	
	U.S. citizens and permanent residents	Temporary visa holders	U.S. citizens and permanent residents	Temporary visa holders	U.S. citizens and permanent residents	Temporary visa holders	U.S. citizens and permanent residents	Temporary visa holders
FFRDC								
Ames Lab.	4	73	12	60	8	29	5	45
Argonne National Lab.	35	143	27	119	27	119	27	119
Brookhaven National Lab.	21	98	37	90	24	112	33	109
Fermi National Accelerator Lab.	13	34	15	37	25	32	22	37
ID National Lab.	8	11	NA	NA	4	6	5	11
Jet Propulsion Lab.	82	0	24	52	22	78	39	63
Lawrence Berkeley National Lab.	218	85	63	220	83	202	84	219
Lawrence Livermore National Lab.	145	77	75	64	93	52	95	43
Los Alamos National Lab.	162	244	139	184	141	224	182	183
National Astronomy and Ionosphere Ctr.	0	3	0	1	0	4	0	3
National Cancer Institute-Frederick	NA	NA	NA	NA	NA	NA	148	176
National Ctr. for Atmospheric Research Ctr.	46	20	36	37	18	38	12	20
National Optical Astronomy Observatory	4	5	2	4	14	8	9	9
National Radio Astronomy Observatory	12	11	12	5	9	12	12	10
National Renewable Energy Lab.	45	0	11	22	12	22	19	24
Oak Ridge National Lab.	39	111	48	95	34	124	56	102
Pacific Northwest National Lab.	75	61	36	64	15	30	39	61
Princeton Plasma Physics Lab.	4	3	6	5	1	1	1	3
Sandia National Labs.	86	41	93	49	78	35	77	36
Savannah River National Lab.	11	0	16	2	2	0	10	1
Stanford Linear Accelerator Ctr.	171	0	NA	NA	12	50	17	40
Thomas Jefferson National Accelerator Facility	5	6	2	10	7	21	7	22

NA = not available.

FFRDC = federally funded research and development center.

NOTE: Interpret large changes between years with caution; numbers have been verified but changes may be the result of programmatic changes at the institutional level that were not tracked.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Postdoctorates at Federally Funded Research and Development Centers, 2004-2007.