



Postdocs at Federally Funded R&D Centers: Fall 2010

Detailed Statistical Tables | NSF 13-319 | April 2013

Kelly Kang,
Project Officer
Human Resources Statistics Program
(703) 292-7796

General Notes

The data presented in this report were compiled from the National Science Foundation (NSF) Survey of Postdocs at Federally Funded Research and Development Centers, Fall 2010 (2010 FFRDC Postdoc Survey). RTI International currently conducts the survey under contract to NSF.

The reference date for this annual survey is 1 October. The survey collects aggregate counts of postdocs at each FFRDC according to their source of financial support, citizenship, sex, race and ethnicity, and field of research. The FFRDC Postdoc Survey began in 2005 and is administered in conjunction with the Survey on Graduate Students and Postdoctorates in Science and Engineering (GSS).

Data presented in the trend table were compiled from the most recently completed survey cycle.

This publication series includes current trends in the characteristics of postdoctorate researchers (postdocs) employed at federally funded research and development centers (FFRDCs).

For data on research and development expenditures at FFRDCs, see the R&D Expenditures at FFRDCs report series at <http://www.nsf.gov/statistics/ffrdc/>. For data on federal R&D obligations and funding to FFRDCs, see the Federal Funds for R&D report series at <http://www.nsf.gov/statistics/fedfunds/>. The most recent Master Government List of Federally Funded R&D Centers can be found at <http://www.nsf.gov/statistics/ffrdclist/>.

Data Tables

Table	Postdocs at federally funded research and development centers (FFRDCs)
1	total, by FFRDC: 2010
2	citizenship, ethnicity, and race, by sex: 2010
3	sex, citizenship, ethnicity, and race, by FFRDC type: 2010
4	source of support and citizenship, by FFRDC type: 2010 field of research: 2010
5	by FFRDC type
6	by citizenship
7	sex, citizenship, ethnicity, race, and source of support: 2005–07, 2009–10

TABLE 1. Postdocs at federally funded research and development centers: 2010

FFRDCs	Number
All postdocs	3,011
University-administered FFRDCs	1,234
Ames Laboratory	47
Argonne National Laboratory	300
Fermi National Accelerator Laboratory	61
Jet Propulsion Laboratory	107
Lawrence Berkeley National Laboratory	519
National Astronomy and Ionosphere Center	4
National Center for Atmospheric Research	39
National Optical Astronomy Observatory	6
National Radio Astronomy Observatory	21
Princeton Plasma Physics Laboratory	17
SLAC National Accelerator Laboratory	54
Thomas Jefferson National Accelerator Facility	59
Nonprofit-administered FFRDCs	719
Brookhaven National Laboratory	153
National Renewable Energy Laboratory	107
Oak Ridge National Laboratory	245
Pacific Northwest National Laboratory	214
Industry-administered FFRDCs	1,058
Idaho National Laboratory	15
Lawrence Livermore National Laboratory	148
Los Alamos National Laboratory	416
National Cancer Institute at Frederick	286
Sandia National Laboratories	181
Savannah River National Laboratory	12

FFRDC = federally funded research and development center.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Postdocs at Federally Funded Research and Development Centers, 2010.

TABLE 2. Citizenship, ethnicity, and race of postdocs at federally funded research and development centers, by sex: 2010

Citizenship, ethnicity, and race	Total	Male	Female	Unknown sex
All postdocs	3,011	2,052	673	286
U.S. citizens and permanent residents ^a	1,191	787	309	95
Hispanic or Latino	48	36	12	0
Not Hispanic or Latino	1,005	721	284	0
American Indian or Alaska Native	4	4	0	0
Asian	151	99	52	0
Black or African American	16	7	9	0
Native Hawaiian or Other Pacific Islander	3	3	0	0
White	822	602	220	0
More than one race	9	6	3	0
Unknown ethnicity or race	138	30	13	95
Temporary visa holders	1,820	1,265	364	191

^a Ethnicity and race data available only for U.S. citizens and permanent residents.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Postdocs at Federally Funded Research and Development Centers, 2010.

TABLE 3. Sex, citizenship, ethnicity, and race of postdocs at federally funded research and development centers, by FFRDC type: 2010

Sex, citizenship, ethnicity, and race	Total	University administered	Nonprofit administered	Industry administered
All postdocs	3,011	1,234	719	1,058
Male	2,052	896	545	611
Female	673	338	174	161
Unknown sex	286	0	0	286
U.S. citizens and permanent residents ^a	1,191	394	255	542
Hispanic or Latino	48	12	9	27
Not Hispanic or Latino	1,005	355	245	405
American Indian or Alaska Native	4	2	1	1
Asian	151	55	31	65
Black or African American	16	5	8	3
Native Hawaiian or Other Pacific Islander	3	1	1	1
White	822	289	201	332
More than one race	9	3	3	3
Unknown ethnicity/race	138	27	1	110
Temporary visa holders	1,820	840	464	516

FFRDC = federally funded research and development center.

^a Ethnicity and race data available only for U.S. citizens and permanent residents.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Postdocs at Federally Funded Research and Development Centers, 2010.

TABLE 4. Source of support and citizenship of postdocs at federally funded research and development centers, by FFRDC type: 2010

Source of support and citizenship	Total	University administered	Nonprofit administered	Industry administered
All postdocs	3,011	1,234	719	1,058
Federal support	2,541	1,075	711	755
U.S. citizens and permanent residents	1,032	340	249	443
Temporary visa holders	1,509	735	462	312
Nonfederal support	184	159	8	17
U.S. citizens and permanent residents	64	54	6	4
Temporary visa holders	120	105	2	13
Unknown source of support	286	0	0	286

FFRDC = federal funded research and development center.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Postdocs at Federally Funded Research and Development Centers, 2010.

TABLE 5. Field of research of postdocs at federally funded research and development centers, by FFRDC type: 2010

Field of research	Total	University administered	Nonprofit administered	Industry administered
All postdocs	3,011	1,234	719	1,058
Science and engineering	2,669	1,227	694	748
Science	2,036	1,043	497	496
Agricultural sciences	1	0	1	0
Biological sciences	223	100	67	56
Chemistry	492	198	173	121
Computer sciences	122	71	26	25
Earth, atmospheric, and ocean sciences	209	131	48	30
Mathematical sciences	44	3	6	35
Physics/astronomy	847	492	139	216
Psychology	1	0	0	1
Social sciences	13	11	1	1
Other sciences	84	37	36	11
Engineering	633	184	197	252
Aerospace engineering	10	0	3	7
Agricultural engineering	0	0	0	0
Biomedical engineering	17	0	4	13
Chemical engineering	100	22	44	34
Civil engineering	21	5	10	6
Electrical engineering	58	13	13	32
Engineering science and physics	18	7	6	5
Industrial/manufacturing engineering	4	0	4	0
Materials/metallurgical engineering	224	101	55	68
Mechanical engineering	102	28	25	49
Mining engineering	0	0	0	0
Nuclear engineering	54	8	23	23
Petroleum engineering	0	0	0	0
Other engineering	25	0	10	15
Health	17	2	14	1
Multidisciplinary	8	3	1	4
Non-science or engineering	4	2	1	1
Field of research not known	313	0	9	304

FFRDC = federal funded research and development center.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Postdocs at Federally Funded Research and Development Centers, 2010.

TABLE 6. Field of research of postdocs at federally funded research and development centers, by citizenship: 2010

Field of research	Total	U.S. citizens and permanent residents	Temporary visa holders
All postdocs	3,011	1,191	1,820
Science and engineering	2,669	1,070	1,599
Science	2,036	805	1,231
Agricultural sciences	1	1	0
Biological sciences	223	97	126
Chemistry	492	219	273
Computer sciences	122	45	77
Earth, atmospheric, and ocean sciences	209	80	129
Mathematical sciences	44	19	25
Physics/astronomy	847	302	545
Psychology	1	1	0
Social sciences	13	8	5
Other sciences	84	33	51
Engineering	633	265	368
Aerospace engineering	10	5	5
Agricultural engineering	0	0	0
Biomedical engineering	17	13	4
Chemical engineering	100	51	49
Civil engineering	21	6	15
Electrical engineering	58	23	35
Engineering science and physics	18	9	9
Industrial/manufacturing engineering	4	0	4
Materials/metallurgical engineering	224	79	145
Mechanical engineering	102	40	62
Mining engineering	0	0	0
Nuclear engineering	54	30	24
Petroleum engineering	0	0	0
Other engineering	25	9	16
Health	17	7	10
Multidisciplinary	8	3	5
Non-science or engineering	4	4	0
Field of research not known	313	107	206

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Postdocs at Federally Funded Research and Development Centers, 2010.

TABLE 7. Sex, citizenship, ethnicity, race, and source of support of postdocs at federally funded research and development centers: 2005–07, 2009–10

Characteristic	2005	2006	2007	2009	2010
FFRDCs with postdoc	22	22	22	23	22
All postdocs	1,820	2,147	2,235	2,449	3,011
Male	1,430	1,373	1,461	1,679	2,052
Female	390	455	450	513	673
Unknown sex	0	319	324	257	286
U.S. citizens and permanent residents ^a	654	774	899	899	1,191
Hispanic or Latino	NA	NA	NA	39	48
Not Hispanic or Latino	NA	NA	NA	833	1,005
American Indian or Alaska Native	NA	NA	NA	2	4
Asian	NA	NA	NA	115	151
Black or African American	NA	NA	NA	18	16
Native Hawaiian or Other Pacific Islander	NA	NA	NA	2	3
White	NA	NA	NA	691	822
More than one race	NA	NA	NA	5	9
Unknown ethnicity/race	NA	NA	NA	27	138
Temporary visa holders	1,120	1,373	1,336	1,293	1,820
Unknown citizenship	46	0	0	257	0
Source of support					
Federal support	NA	1,641	2,030	2,258	2,541
Nonfederal support	NA	506	205	181	184
Unknown support source	NA	0	0	10	286

FFRDC = federally funded research and development center. NA = not available; data were not collected.

^a Ethnicity and race data available only for U.S. citizens and permanent residents.

NOTES: Survey was not conducted in 2008. Changes in how FFRDCs define their postdocs and maintain their administrative data may affect interpretation of trends.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Postdocs at Federally Funded Research and Development Centers.

Appendix A. Technical Notes

Overview

Purpose

The Survey of Postdocs at Federally Funded Research and Development Centers (FFRDC Postdoc Survey) is a census of all FFRDCs in the United States that employ postdoctoral researchers (postdocs) as of 1 October of the survey year. The survey collects the total number of postdocs in each FFRDC by sex, race and ethnicity, citizenship, source of financial support, and field of research. The FFRDC Postdoc Survey is the primary source of information on postdocs employed within FFRDCs in the United States. The survey is conducted as part of the Survey on 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).

Respondents

The FFRDC Postdoc Survey is an establishment survey completed by FFRDC staff. The majority of respondents are administrative staff in the FFRDC director's office.

Key Variables

The postdoc count data are available by the following characteristics:

- Source of financial support, sex, and citizenship
- Ethnicity and race for U.S. citizens and permanent residents
- Field of research and citizenship
- Administrative type of the FFRDC (university, nonprofit, industry)

Survey Design

Target Population

The survey target population includes FFRDC in the Master Government List of Federally Funded R&D Centers (see appendix B), which has been maintained by NSF since 1967. NSF maintains the master list by querying all federal agencies annually to determine changes, additions, or deletions to the list (<http://www.nsf.gov/statistics/ffrdclist>).

FFRDCs are engaged in basic research, applied research, development, or management of R&D activities, either upon direct request of the government or under a broad charter from the government, but in either case under the monitorship of the government. FFRDCs are operated, managed, and administered as separate organizational units within a parent organization or as separately incorporated organizations. They receive the majority of their financial support (70% or more) from the federal government, usually from one agency, and are expected to have a long-term relationship with their sponsoring agency.

FFRDCs are eligible for the FFRDC Postdoc Survey if they employed one or more postdocs as of 1 October in the survey year.

The 2010 survey universe consists of 39 FFRDCs, with 13 administered by academic institutions, 20 by nonprofit organizations, and 6 by industrial firms. Of 39 FFRDCs, 17 responded to say they had no postdocs and thus were ineligible for the 2010 survey. Twenty-two eligible FFRDCs provided the postdoc data.

Survey Instrument

The 2010 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 doctoral degree; whose degree was awarded recently, generally within the past 5 years; whose appointment is for a limited term, generally no more than 5–7 years; who works under the supervision of a senior researcher; and whose appointment is primarily for the purpose of training in research or through scholarship.

The FFRDC survey collected data via a Web instrument. The following information was collected for all postdocs the FFRDCs employed as of 1 October 2010:

- Question 1. A formal postdoc definition, if the FFRDC had one, and the elements of the FFRDC's definition of a postdoc
- Question 2. Sex and citizenship of the postdocs, and the ethnicity and race of postdocs who were U.S. citizens and permanent residents
- Question 3. Source of postdoc financial support (federal vs. nonfederal), by citizenship
- Question 4. Field of research, by citizenship

Survey Procedures

Two weeks before starting data collection on 14 February, 2011, the directors of all 39 FFRDCs were sent a letter from NSF inviting them to participate in the survey and to confirm whether the individuals listed as contact persons for previous data collections were still employed at their center or, if not, to obtain an alternative contact person's name. All survey contact materials are included in appendix C. The survey coordinators at the FFRDCs who responded to the previous survey were also sent an e-mail to verify whether they would be the respondents again for the 2010 survey. Additional follow-up contacts by e-mails and telephone calls were made to the prior-year respondents and to the FFRDC directors to identify a new contact person if the prior-year respondent was no longer available. As a result of these efforts, a contact person was identified for all 39 FFRDCs.

Access information for the 2010 Web survey instrument was e-mailed to the FFRDCs as soon as a contact person was identified for the center. During the data collection stage, 17 centers indicated that they did not have postdocs. Sixteen of these FFRDCs also reported having no postdocs in past survey cycles, and one center was new since the last survey. These FFRDCs were sent a follow-up e-mail message asking contacts to verify they do not have postdocs at their center under other job titles of "postdoctoral fellow," "postdoctoral researcher," or "research associate." All 17 centers confirmed that they had no employees meeting the definition of a postdoc working at their FFRDC. FFRDCs not employing postdocs were funded primarily by agencies within the Department of Defense and within the Department of Homeland Security (see appendix B).

The survey due date was on 14 March 2011. A series of follow-up e-mails and telephone calls was made to the nonresponding FFRDCs until the last center responded to the survey on 5 April 2011.

Response Rate

The survey response rate was 100%, with all 39 FFRDCs responding to the 2010 survey: 17 indicated they did not have postdocs, and 22 reported postdoc data.

Data Editing and Processing

All the data submitted by the FFRDCs were reviewed to ensure that all data fields were completed and that data were internally consistent. In cases where additional information or corrections were needed, FFRDC respondents were contacted by telephone or e-mail and asked to correct and resubmit the survey data.

Any FFRDC with cell counts that were more than 20% above or 20% below their corresponding prior year data was flagged for edit verification. Nine FFRDCs required comprehensive data review due to reported counts outside these verification limits. In all cases, FFRDC respondents confirmed their data as accurate, with changes usually explained by a significant expansion of their postdoc program from the prior year.

For each FFRDC, completed survey data were compared with the prior year's data for consistency. For any substantive disparities, respondents are sent customized e-mail messages asking them to confirm or correct the data before the final processing and tabulation of data.

Item Nonresponse and Imputation

Of 22 eligible FFRDCs, 20 reported complete data; one center only reported the total number of postdocs by citizenship and another center was not able to report data by ethnicity and race. Item nonresponse rates ranged from 0% for citizenship to 12% for ethnicity and race of the postdocs. The Web survey instrument is designed to allow respondents to indicate whether they have the details on information that allow for distinguishing missing data from zero counts. No imputation is done for missing data.

Known or Suspected Sources of Nonsampling Error

The FFRDC Postdoc Survey is a census survey and is not subject to sampling error. However, nonsampling error may arise from lack of administrative data for the categories requested on the survey and the respondents' misreporting of information. To minimize reporting errors, substantial changes in counts and inconsistent data on the completed forms are subject to callbacks to verify changes and correct anomalies in the data.

Data Availability

Postdoc data from the FFRDCs are available for 2005–07, 2009, and 2010. NSF releases the data from this survey through InfoBriefs and Detailed Statistical Tables in the National Center for Science and Engineering Statistics publication series *Postdocs at Federally Funded R&D Centers*. More detailed data for the 2010 survey and from the prior years are available upon request.

For more information about FFRDCs see NSF's Federally Funded R&D Centers Master Government List at <http://www.nsf.gov/statistics/ffrdclist/>. Data on Federal R&D obligations and funding to FFRDCs are available in Federal Funds for R&D report series at <http://www.nsf.gov/statistics/fedfunds/>. Data on R&D expenditures at FFRDCs are available at <http://www.nsf.gov/statistics/ffrdc/>.

Appendix B. List of Federally Funded Research and Development Centers, by Funding Agency: 2010

Department of Defense

Administered by universities and colleges

- Lincoln Laboratory*
(Massachusetts Institute of Technology)
- Software Engineering Institute*
(Carnegie Mellon University)

Administered by other nonprofit organizations

- Aerospace FFRDC*
(The Aerospace Corporation)
- Arroyo Center*
(RAND Corporation)
- C3I FFRDC*
(MITRE Corporation)
- Center for Communications and Computing*
(Institute for Defense Analyses)
- Center for Naval Analyses*
(The CNA Corporation)
- National Defense Research Institute*
(RAND Corporation)
- Project Air Force*
(RAND Corporation)
- Studies and Analyses Center*
(Institute for Defense Analyses)

Department of Energy

Administered by universities and colleges

- Ames Laboratory
(Iowa State University of Science and Technology)
- Argonne National Laboratory
(University of Chicago)
- Fermi National Accelerator Laboratory
(Fermi Research Alliance, LLC)
- Lawrence Berkeley National Laboratory
(University of California)
- Princeton Plasma Physics Laboratory
(Princeton University)
- SLAC National Accelerator Laboratory
(Leland Stanford, Jr., University)
- Thomas Jefferson National Accelerator Facility
(Jefferson Science Associates, LLC)

Administered by industrial firms

- Idaho National Laboratory
(Battelle Energy Alliance, LLC)
- Lawrence Livermore National Laboratory[1]
(Lawrence Livermore National Security, LLC)
- Los Alamos National Laboratory[2]
(Los Alamos National Security, LLC)
- Sandia National Laboratories
(Sandia Corporation, a subsidiary of Lockheed Martin Corporation)
- Savannah River National Laboratory
(Savannah River Nuclear Solutions, LLC)

Administered by other nonprofit organizations

- Brookhaven National Laboratory
(Brookhaven Science Associates, Inc.)
- National Renewable Energy Laboratory
(Alliance for Sustainable Energy, LLC)
- Oak Ridge National Laboratory
(UT-Battelle, LLC)
- Pacific Northwest National Laboratory
(Battelle Memorial Institute)

Department of Health and Human Services

Administered by industrial firms

- National Cancer Institute at Frederick
(Science Applications International Corporation–Frederick, Inc.)

Department of Homeland Security

Administered by nonprofit organizations

- Homeland Security Studies and Analysis Institute[3]*
(Analytic Services, Inc.)
- Homeland Security Systems Engineering and Development Institute[3]*
(MITRE Corporation)
- National Biodefense Analysis and Countermeasures Center*
(Battelle National Biodefense Institute)

Department of Transportation

Administered by nonprofit organizations

- Center for Advanced Aviation System Development*
(MITRE Corporation)

Department of the Treasury and Department of Veterans Affairs

Administered by nonprofit organizations

- Center for Enterprise Modernization[4]*
(MITRE Corporation)

National Aeronautics and Space Administration

Administered by universities and colleges

- Jet Propulsion Laboratory
(California Institute of Technology)

National Science Foundation

Administered by universities and colleges

- National Astronomy and Ionosphere Center
(Cornell University)
- National Center for Atmospheric Research
(University Corporation for Atmospheric Research)
- National Optical Astronomy Observatory
(Association of Universities for Research in Astronomy, Inc.)
- National Radio Astronomy Observatory
(Associated Universities, Inc.)

Administered by nonprofit organizations

- Science and Technology Policy Institute*
(Institute for Defense Analyses)

Nuclear Regulatory Commission

Administered by nonprofit organizations

- Center for Nuclear Waste Regulatory Analyses*
(Southwest Research Institute)

* FFRDCs without postdocs

[1] On 1 October 2007, Lawrence Livermore National Laboratory acquired new industrial firm administrator (Lawrence Livermore National Security, LLC). Previous administrator was University of California.

[2] On 1 June 2006, Los Alamos National Laboratory acquired new industrial firm administrator (Los Alamos National Security, LLC). Previous administrator was University of California.

[3] On 5 March 2009, Homeland Security Studies and Analysis Institute and Homeland Security Systems Engineering and Development Institute were created. Together these new FFRDCs replaced Homeland Security Institute.

[4] In August 2001, Internal Revenue Service Federally Funded Research and Development Center was renamed Center for Enterprise Modernization. On 1 October 2008, Department of Veterans Affairs was designated cosponsor of Center for Enterprise Modernization.

Appendix C. Survey Instrument

- 2010 FFRDC Postdoc Survey

Worksheet for 2010 Survey on Postdocs at Federally Funded Research and Development Centers (2010 FFRDC Postdoc Survey)

Survey Information

INFORMATION COPY
DO NOT USE TO REPORT

Purpose and Background

Your FFRDC was selected for this survey because it is listed on the Master Government List of FFRDCs (<http://www.nsf.gov/statistics/ffrdc/start.cfm>), where FFRDC refers to the organizations, centers, laboratories, etc., named on that list. The results from this survey will help provide NSF with a comprehensive picture of the training of the nation's postdocs in science, engineering, and health-related fields. Additional data on postdocs in academic organizations are collected in the Survey of Graduate Students and Postdoctorates in Science and Engineering.

This information is collected under the authority of the National Science Foundation Act of 1950, as amended. All information provided will be used for research and statistical purposes by the survey sponsors, their contractors for the purpose of analyzing data and preparing scientific reports. Most of the survey data will be reported by individual institutions. Identifying individual institution data is standard policy for NSF's establishment surveys, and will permit you to compare your institution's data with other institutions' data. Response is entirely voluntary. Not providing some or all of the information will in no way adversely affect your FFRDC.

Data Collected

Report the number and characteristics of postdocs at your FFRDC. Please use October 1, 2010 as the reference date when completing the items in the survey. This survey includes the following items:

- **Contact Information** – provide name, job title, telephone number, and e-mail address for the survey respondent (the person completing this survey)
- **Item 1. Postdoc Definition** – identify the common characteristics of postdocs at your FFRDC
- **Item 2. Demographics** – provide counts of postdocs by citizenship, ethnicity/race, and sex
- **Item 3. Financial Support** – provide counts of postdocs by federal vs. non-federal financial support and by citizenship
- **Item 4. Postdoc Field of Research** – provide counts of postdocs by field of research and citizenship
- **Glossary** – the glossary provides definitions of important terms used in the survey

Data Submission

This worksheet is designed to help you to complete the FFRDC postdoc survey on the web.

- Use the FFRDC postdoc web survey to report and submit the information from this worksheet for your FFRDC.
- Access the web survey at www.FFRDC2010.org, using the user ID and password you will receive by e-mail.
- Submit the survey data on the web to NSF by **March 14, 2011**.
- To print all pages of this worksheet from the web, please select the option for "entire workbook" under the "print what" box.

Please Go to Next Page: Contact Information

SURVEY HELP

If you lost the ID and/or password to access the web survey or have any questions about your submission, please contact Jean Lennon at FFRDC@rti.org or (800) 848-4075.

Worksheet for 2010 FFRDC Postdoc Survey

Contact Information

FFRDC Name:	<input type="text"/>
FFRDC Address:	<input type="text"/>
Director's Name:	<input type="text"/>

Respondent's Name:	<input type="text"/>
Respondent's Job Title:	<input type="text"/>
Telephone number: (XXX-XXX-XXXX)	<input type="text"/>
E-mail Address:	<input type="text"/>

Please Go to Item 1. Postdoc Definition

SURVEY HELP

For survey help, please contact Jean Lennon at FFRDC@rti.org or (800) 848-4075.

Worksheet for 2010 FFRDC Postdoc Survey

Item 1. Postdoc Definition

Different organizations have different definitions of postdocs, which may change over time. Listed below are common characteristics of postdocs used by different organizations. Please tell us which of the following are requirements for a postdoc at your FFRDC.

A. Postdoc Requirements	Is it required? <i>(Mark (X) Yes or No)</i>	
	Yes	No
▪ Requires a Ph.D. or an equivalent doctorate degree (such as a Sc. D., M.D., D.V.M., or D.D.S.)?		
▪ Requires that the doctorate was recently awarded?		
▪ Is a temporary position?		
▪ Is intended to provide training in research?		
▪ Is intended to advance professional skills?		
▪ Requires a full-time commitment to research?		
▪ Requires that the postdoc work under the direction of a senior scholar?		
▪ Is for a defined period of time (i.e. has a term limit)?		
▪ Requires publication of research in scholarly journals?		
▪ Requires mentorship for professional development?		
▪ Is intended to prepare the postdoc for an independent career in research?		

B. Does your FFRDC have a formal definition of a postdoc position?

Mark (X) Yes or No.

- Yes
- No

C. As of October 1, 2010 what was the total number of postdocs at your FFRDC?

Please use your FFRDC's definition of a postdoc. If your FFRDC does not have a definition, see the Glossary for NSF definition. Note: please include clinical fellows if the primary purpose of the appointment is research.

TOTAL NUMBER OF POSTDOCS

Please Go to Item 2. Demographics

SURVEY HELP

For survey help, please contact Jean Lennon at FFRDC@rti.org or (800) 848-4075.

Worksheet for 2010 FFRDC Postdoc Survey

Item 2. Demographics

As of October 1, 2010, how many male and female postdocs did this FFRDC have in each of the citizenship, ethnicity and race categories listed below?

Check this box if this FFRDC had postdocs for which you cannot report complete data.

- Please use your FFRDC's definition of a postdoc. See the **Glossary** for definitions of **foreign nationals, U.S. citizens and permanent residents, ethnicity, and race.**
- Count postdocs who are Hispanic/Latino or Hispanic/Latino and any other race in Row B only.
- Count of total postdocs (Column 3, Row J) must match the number of total postdocs in Item 1C.

Citizenship, ethnicity, and race of postdocs (report postdocs in whole numbers)	Male 1	Female 2	Total ¹ 3
Foreign nationals holding temporary visas regardless of ethnicity or race A			
U.S. citizens and permanent residents (non-U.S. citizens holding green cards)			
• Hispanic/Latino ethnicity (one or more races)..... B			
• Non-Hispanic/Latino ethnicity (one or more races)			
- One race, American Indian/Alaska Native..... C			
- One race, Asian..... D			
- One race, Black/African American..... E			
- One race, Native Hawaiian/Other Pacific Islander..... F			
- One race, White..... G			
- More than one race (non-Hispanic/Latino)..... H			
• Ethnicity/race unknown or not stated..... I			
Total postdocs (sum Rows A-I)¹ J			
¹ Shaded row and column totals will be automatically calculated on the Web survey.			

Please Go to Item 3. Financial Support

SURVEY HELP

For survey help, please contact Jean Lennon at FFRDC@rti.org or (800) 848-4075.

Worksheet for 2010 FFRDC Postdoc Survey

Item 3. Financial Support

As of October 1, 2010, how many postdocs did this FFRDC have by citizenship status and federal/nonfederal financial support?

Check this box if this FFRDC had postdocs for which you cannot report complete data.

- Please use your FFRDC's definition of a postdoc. See the **Glossary** for definitions of **federal/ non-federal financial support**, **foreign nationals**, and **U.S. citizens and permanent residents**.
- Count of total postdocs (Column 3, Row C) must match the number of total postdocs in Item 1C.

Federal vs. non-Federal financial support of postdocs by citizenship (report postdocs in whole numbers)	U.S. citizens and permanent residents 1	Foreign nationals holding temporary visas 2	Total postdocs ¹ 3
Postdocs with federal financial support A			
Postdocs with non-federal financial support B			
Total postdocs (sum Rows A-B)¹ C			

¹ Shaded row and column totals will be automatically calculated on the Web survey.

Please Go to Item 4. Postdoc Field of Research

SURVEY HELP

For survey help, please contact Jean Lennon at FFRDC@rti.org or (800) 848-4075.

Worksheet for 2010 FFRDC Postdoc Survey

Item 4. Postdoc Field of Research

Please report the number of postdocs at your FFRDC by citizenship status and the fields of research the postdocs were engaged in as of October 1, 2010.

Check this box if this FFRDC had postdocs for which you cannot report complete data.

- Please use your FFRDC's definition of a postdoc. See the **Glossary** for definitions of **field of research**, **foreign nationals**, and **U.S. Citizens and permanent residents**.
- Report postdocs who were engaged in multiple research fields in one field category only.
- Count of total postdocs (Column 3, Row c) must match the number of total postdocs in Item 1C.

Postdoc Field of Research (report postdocs in whole numbers)		U.S. citizens and permanent residents 1	Foreign nationals holding temporary visas 2	Total postdocs ¹ 3
Science Fields				
Agricultural Sciences	A			
Biological Sciences	B			
Chemistry	C			
Computer Sciences	D			
Earth, Atmospheric, and Ocean Sciences	E			
Health Fields	F			
Mathematical Sciences	G			
Physics/Astronomy	H			
Psychology	I			
Social Sciences	J			
Other Science Fields	K			
Engineering Fields				
Aerospace Engineering	L			
Agricultural Engineering	M			
Biomedical Engineering	N			
Chemical Engineering	O			
Civil Engineering	P			
Electrical Engineering	Q			
Engineering Science and Physics	R			
Industrial/Manufacturing Engineering	S			
Materials/Metallurgical Engineering	T			
Mechanical Engineering	U			
Mining Engineering	V			
Nuclear Engineering	W			
Petroleum Engineering	X			
Other Engineering Fields	Y			
Multidisciplinary Fields	Z			
Other				
Non Science or Engineering Field	a			
Discipline Not Known	b			
Total (sum Rows A-b)¹	c			

¹ Shaded row and column totals will be automatically calculated on the Web survey.

Worksheet for 2010 FFRDC Postdoc Survey

Glossary

Field of research. The area of research that the postdoc's research was focused on. It may or may not be the field in which they received their degree. If a postdoc was engaged in more than one field of research, please choose one field or multidisciplinary fields as appropriate.

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.

Foreign nationals holding temporary visas. Individuals in the United States on temporary visas. Do not include individuals who are native residents of Puerto Rico or a U.S. territory, or permanent residents holding green cards; they should be reported under U.S. citizens and permanent residents. Do not report foreign nationals by ethnicity or race.

Hispanic/Latino ethnicity. The U.S. Office of Management and Budget defines ethnicity separately from race (please see separate entry for Race). In this survey, ethnicity refers to whether an individual is of Hispanic or Latino descent—a person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race.

Non-federal support. Postdoctoral support provided by a non-federal source such as private industry, a nonprofit, or an academic organization.

Postdoc. The definition of a postdoc varies by organization. Please use your FFRDC's definition of a postdoc. NSF defines a postdoc as meeting both of the following qualifications:

- 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 degree equivalent to a U.S. doctoral degree; and
- 2) Has a limited-term appointment, generally no more than 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 organization.

Postdoc Field of Research. See Field of Research.

Race. Only report race for U.S. citizens (including those from Puerto Rico and U.S. territories) and permanent residents. All foreign nationals holding temporary visas should be reported in Row A. The U.S. Office of Management and Budget defines race separately from ethnicity (please see entry for Ethnicity). The FFRDC survey uses the following definitions of race:

- One race, American Indian or Alaska Native—A person of only one race having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment
- One race, Asian—A person of only one race 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, Thailand, and Vietnam
- One race, Black or African American—A person of only one race having origins in any of the black racial groups of Africa
- One race, Native Hawaiian or Other Pacific Islander—A person of only one race having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific islands
- One race, White—A person of only one race having origins in any of the original peoples of Europe, the Middle East, or North Africa
- More than one race reported (non-Hispanic/Latino)—Individuals reporting two or more of the race categories listed above. Individuals, who report being Hispanic/Latino and one or more race, should be reported in Row B instead.

U.S. citizens and permanent residents. U.S. citizens, including those from Puerto Rico and the U.S. territories, and permanent residents holding green cards.

Suggested Citation, Acknowledgments

National Science Foundation, National Center for Science and Engineering Statistics. 2013. *Postdocs at Federally Funded R&D Centers: Fall 2010*. Detailed Statistical Tables NSF 13-319. Arlington, VA. Available at <http://www.nsf.gov/statistics/nsf13319/>.

The 2010 Survey of Postdocs at Federally Funded R&D Centers was conducted as part of the Survey of Graduate Students and Postdoctorates in Science and Engineering with funds from the National Science Foundation (NSF) and the National Institutes of Health. RTI International conducted the survey, under NSF contract number SRS-0629305.

RTI prepared the tables. RTI staff members who made significant contributions include Jean Lennon and Jamie Friedman. Kelly H. Kang of the Human Resources Statistics Program, National Center for Science and Engineering Statistics (NCSES), NSF, managed the production of this report and oversaw the report through the NCSES review process.

National Center for Science and Engineering Statistics

John R. Gawalt
Director

Nirmala Kannankutty
Deputy Director (Acting)

Stephen Cohen
Chief Statistician

Emilda B. Rivers
Program Director, Human Resources Statistics Program



National Center for Science and Engineering Statistics (NCSES)

The National Science Foundation, 4201 Wilson Boulevard, Arlington, Virginia 22230, USA
Tel: (703) 292-8780, FIRS: (800) 877-8339 | TDD: (800) 281-8749