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# NSF Survey of Federal Funds for Research and Development

Volume 65 (FYs 2015–17)

DOD version

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National Science Foundation  
WHERE DISCOVERIES BEGIN



## Instructions

### Agency Code and Name

Your USER ID and password will be used to access the online survey system. Only one USER ID is available per agency. It is possible to delegate work to sub agencies by creating program, field, and branch offices below the agency umbrella.

### Contact Information

Please provide complete contact information for both the survey respondent and associated supervisor.

### Before You Start

Please give special attention to the following items when completing the Survey of Federal Funds for Research and Development, Volume 65, FYs 2015–17.

1. In the interest of time, we are requesting that you submit to the survey the same data that your agency submitted to the Office of Management and Budget (OMB) in January 2016. Do not wait for later markups or revisions. **Complete your submission prior to the April 22, 2016, deadline.**
2. Report actual dollars for all amounts.
3. In the Table I narrative statements, explain any differences between outlays reported in this survey and those reported to OMB for the FY 2017 budget.
4. Verify that all research and development activities are included in your Federal Funds Survey data submission, whether they are represented by a specific R&D appropriation or as parts of other appropriations.
5. If you report any extramural funds on Tables VI, VII, and VIII, then you may also have some federal intramural funds to report on these tables if your agency spends funds, at least for staff time, to administer the extramural R&D programs.
6. In the Table VI and Table XI narrative statements, explain **ANY** differences between FY 2015 data reported in two separate NSF surveys: Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions (Federal S&E Support Survey) and R&D obligations (Table VI) and R&D plant obligations (Table XI) to universities and colleges, and nonprofit institutions for this Federal Funds Survey. If you do not know your agency's respondent to the Federal S&E Support Survey, please e-mail us at [NSFFedFunds@smdi.com](mailto:NSFFedFunds@smdi.com).
7. In the comment boxes for the appropriate tables, provide the reasons for **ANY** changes in your obligation levels from those reported in the previous cycle's survey for type of R&D (basic research, applied research, and development), R&D plant, fields of science and engineering, or performers.
8. If your agency sponsors a Federally Funded Research and Development Center (FFRDC), data should be reported on Table IX. If no R&D funds are obligated for your FFRDC for FY 2015, please provide an explanation in the comment box.



9. If your agency is required to provide obligations by state and performer (Tables A1, A2, or B), you will be asked to break out obligations reported to “outlying areas” into “Puerto Rico” and “other areas.” The sum of these two items must equal the total reported for “outlying areas.”

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## Completing the Tables

**Table I** is for reporting outlays only.

- **Outlays** reported in this survey should be consistent with amounts in The Budget of the United States Government. The same definitions are used for both.

Outlays represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated.

The amounts shown for each year reflect outlays for that year regardless of when the funds were originally authorized or received and regardless of whether or not they were originally appropriated, received, or identified in the agency’s budget specifically for research, development, or R&D plant.

- Outlays cover all transactions that occurred in a given fiscal year, and those estimated for the next two fiscal years.
- Include all federal funds available to an agency that the agency received or expects to receive from direct appropriations, trust funds, and special account receipts, corporate income, funds appropriated by the President, and other federal sources.
- Include the full costs of R&D, both specific project costs and overhead costs. Include for both intramural and extramural R&D programs: costs of planning and administering of R&D, laboratory overhead, pay of military personnel, and departmental administration, and include funds your agency transferred to other agencies for R&D.
- Outlays for R&D performed for an agency in foreign countries include all funds available to the agency for this purpose, including funds separately appropriated for special foreign currency programs.
- **Do not include funds your agency received from another federal agency.** The transferring agency will report those funds. Similarly, a subdivision of an agency reports the funds it transfers to another subdivision within that agency as its own.

- **R&D:** R&D is creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture, and society, and the use of this stock of knowledge to devise new applications.

Include:

- Administrative expenses for R&D such as overseeing R&D grants and contracts.

R&D does NOT include:

- Physical assets for R&D such as R&D equipment and facilities.
- Routine product testing; quality control; mapping; collection of general purpose statistics; experimental production; routine monitoring and evaluation of a current program; training of scientific and technical personnel; market research; management studies; literary, artistic, or historical projects, such as films, music, or books and other publications; prospecting or exploration for natural resources;



stand-alone software projects to improve existing systems; and new software projects using known methods and applications.

- **R&D plant:** This category covers the R&D facilities and fixed equipment that are used for R&D. Examples of R&D plant include the following: reactors, wind tunnels, particle accelerators, construction, major repairs, and land used for R&D activities.

**Exception:** For foreign R&D plant, include only federally funded facilities used in support of foreign R&D. R&D plant does NOT include the following: expendable or movable equipment (e.g., spectrometers, microscopes), office furniture and equipment, and pre-design studies (e.g., undertaken before commitment to a specific facility).

**Table II** is for reporting obligations only.

- **R&D, by Type of R&D:** Type of R&D work has three components: basic research, applied research, and development. If you cannot assign a project's obligations precisely across the three categories, please use your best judgment to allocate the obligations. Or, assign the obligations to the category most appropriate to the type of work you are funding.

- **Basic research:** Basic research is systematic study directed toward fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind.
- **Applied research:** Applied research is systematic study to gain knowledge or understanding necessary to determine the means by which a recognized and specific need may be met.
- **Development:** Development is systematic application of knowledge or understanding, directed toward the production of useful materials, devices, and systems or methods, including design, development, and improvement of prototypes and new processes to meet specific requirements.

For DOD Agencies, development is divided into two categories: advanced technology development and major systems development.

**Advanced technology development:** The category advanced technology development is used for activities in DOD's Major Force Program 6.3A. For more information, see Budget Activity 3 on page 5-4 of the DOD Financial Management Regulation (FMR), Volume 2B, Chapter 5, at –

[http://comptroller.defense.gov/Portals/45/documents/fmr/Volume\\_02b.pdf](http://comptroller.defense.gov/Portals/45/documents/fmr/Volume_02b.pdf).

**Major systems development:** The category major systems development is used for activities in DOD's Major Force Programs 6.3B through 6.6. For more information, see Budget Activities 4 through 7 on pages 5-5 to 5-6 of the DOD Financial Management Regulation (FMR), Volume 2B, Chapter 5 at –

[http://comptroller.defense.gov/Portals/45/documents/fmr/Volume\\_02b.pdf](http://comptroller.defense.gov/Portals/45/documents/fmr/Volume_02b.pdf).

- **Obligations** reported in this survey should be consistent with amounts in The Budget of the United States Government. The same definitions are used for both.

Obligations represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required.

- Include direct appropriations, trust funds, special account receipts, corporate income, funds appropriated by the President, and other federal sources.



- Report the year of the obligation regardless of when the funds were originally authorized, received, appropriated, or identified as R&D or R&D plant.
- Include the full costs of R&D, both specific project costs and overhead costs. Include for both intramural and extramural R&D programs: costs of planning and administering R&D, laboratory overhead, pay of military personnel, departmental administration, and include funds your agency transferred to other agencies for R&D.
- **Do not include funds your agency received from another federal agency.** The transferring agency will report those funds. Similarly, a subdivision of an agency reports the funds it transfers to another subdivision within that agency as its own.

■ See other definitions under Table 1.

**Tables III, IV, and V** are for reporting obligations for research by fields of science and engineering.

Every effort should be made to allocate obligations to a specific discipline for actual year's data rather than to the "other" category. If specific allocation is not feasible, however, obligations reported under the other category should be identified in an explanatory note. In reporting obligations for activities concerned with interdisciplinary studies, funds must not be double-counted.

**Fields of Science and Engineering** in this survey consist of eight broad field categories, each consisting of a number of detailed fields. The broad fields are computer sciences and mathematics, engineering, environmental sciences, life sciences, physical sciences, psychology, social sciences, and other sciences not elsewhere classified. The following list presents the detailed fields grouped under each of the broad fields, together with illustrative disciplines of detailed fields.

"Other" includes

- projects within a broad field
- single-discipline projects for which a separate field has not been assigned

The illustrative disciplines are intended to be guidelines, not sharp definitions. Research in biochemistry, for example, might be reported as biological, agricultural, or medical, depending on the focus of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would fall under agricultural.

Do not report research under more than one field. No double counting is intended or allowed.

■ **Computer sciences and mathematics**

- **Computer sciences:** Computer sciences, data manipulation, data storage, design or development of computer capabilities, information sciences, information systems, programming languages, systems analysis
- **Mathematics:** Algebra, analysis, applied mathematics, foundations, geometry, logic, numerical analysis, statistics, topology
- **Other computer sciences and mathematics**

■ **Engineering**

- **Aeronautical engineering:** Aerodynamics
- **Astronautical engineering:** Aerospace, space technology



- **Chemical engineering:** Petroleum, petroleum refining process
- **Civil engineering:** Architectural engineering, environmental engineering, hydraulic engineering, hydrologic engineering, marine engineering, sanitary engineering, structural engineering, transportation
- **Electrical engineering:** Communications engineering, electronic engineering, power engineering
- **Mechanical engineering:** Engineering mechanics
- **Metallurgy and materials engineering:** Ceramic engineering, mining, textile engineering, welding
- **Other engineering:** Agricultural engineering, bioengineering, biomedical engineering, industrial engineering, management engineering, nuclear engineering, ocean engineering, systems engineering
- **Environmental sciences**
  - **Atmospheric sciences:** Aeronomy, extraterrestrial atmospheres, meteorology, solar science, terrestrial atmospheres, weather modification
  - **Geological sciences:** Cartography, engineering geophysics, general geology, geodesy, geomagnetism, gravity, hydrology, inorganic geochemistry, isotopic geochemistry, laboratory geophysics, organic geochemistry, paleomagnetism, paleontology, physical geography, seismology
  - **Oceanography:** Biological oceanography, chemical oceanography, marine geophysics, physical oceanography
  - **Other environmental sciences**
- **Life sciences**

Report under oceanography if study is about life in the sea or other bodies of water.

  - **Agricultural sciences:** Agronomy, animal sciences, fish and wildlife, food science and technology, forestry, general agriculture, horticulture, phytopathology, phytoproduction, plant sciences, soils and soil science
  - **Biological sciences (excluding environmental):** Anatomy, biochemistry, biology, biometry, biophysics, biostatistics, botany, cell biology, entomology, genetics, microbiology, neuroscience (biological), nutrition, parasitology, physiology, zoology
  - **Environmental biology:** Biotic community, ecosystem sciences, evolutionary biology, limnology, physiological ecology, population biology, population ecology, systematic biology
  - **Medical sciences:** Dentistry, internal medicine, neurology, obstetrics and gynecology, ophthalmology, otolaryngology, pathology, pediatrics, pharmacology, pharmacy, preventive medicine, psychiatry, radiology, surgery, veterinary medicine
  - **Other life sciences**
- **Physical sciences**
  - **Astronomy:** Gamma-ray astronomy, laboratory astrophysics, neutrino astronomy, optical astronomy, radio astronomy, theoretical astrophysics, X-ray astronomy
  - **Chemistry:** Inorganic chemistry, organic chemistry, organometallic chemistry, physical chemistry



- **Physics:** Acoustics, atomic physics, condensed-matter physics, elementary particle physics, molecular physics, nuclear structure, optics, plasma physics
- **Other physical sciences**
- **Psychology** deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology in this survey is divided into three categories: biological aspects, social aspects, and other psychological sciences. Examples of the disciplines under each of these fields are as follows:
  - **Biological aspects:** Animal behavior, clinical psychology, comparative psychology, ethology, experimental psychology
  - **Social aspects:** Development, educational, engineering psychology, industrial psychology, personality, personnel, social psychology, testing, vocational psychology
  - **Other psychological sciences**
- **Social sciences:**
  - **Anthropology:** Applied anthropology, archaeology, cultural anthropology, ethnology, personality, social anthropology
  - **Economics:** Agricultural economics, econometrics, economic statistics, economic systems and development, economic theory, history of economic thought, industrial economics, international economics, labor economics, macroeconomics, microeconomics, public finance and fiscal policy
  - **Political science:** Area studies, regional studies, comparative government, history of political ideas, international law, international relations, national political and legal systems, political theory, public administration
  - **Sociology:** Comparative sociology, complex organizations, culture and social structure, demography, group interactions, historical sociology, social problems, social welfare, sociological theory
  - **Other social sciences:** Linguistics, research in education, research in history, research in law (e.g., how legal systems and practices impact society), socioeconomic geography
- **Other sciences not elsewhere classified:** Interdisciplinary studies, multidisciplinary studies, studies that cannot be classified in one of the fields of science above

**Tables VI, VII, and VIII** cover reporting obligations by performer and type of R&D. Personnel costs are for identification of obligations for intramural personnel services and related allowances. Such obligations cover salaries for scientists, engineers, and other intramural support personnel, including planning and administrative personnel. (NOTE: Instructions for Table VI.A follow this section.)

- Under Federal Intramural, report obligations for R&D that are provided to support R&D performed intramurally.
- Under Businesses Excluding FFRDCs, report obligations for R&D that are provided to support R&D by businesses or industrial firms excluding FFRDCs.
- Under FFRDCs Administered by Industrial Firms, report the amount obligated for R&D that is provided to support R&D performed by FFRDCs administered by businesses or industrial firms.
- Under Universities and Colleges Excluding FFRDCs, report obligations for R&D that are provided to support R&D by universities and colleges excluding FFRDCs.





- Under FFRDCs Administered by Universities and Colleges, report the amount obligated for R&D that is provided to support R&D performed by university-administered FFRDCs.
- Under Nonprofit Institutions Excluding FFRDCs, report obligations for R&D that are provided to support R&D by nonprofit institutions excluding FFRDCs.
- Under FFRDCs Administered by Nonprofit Institutions, report obligations for R&D that are provided to support R&D by FFRDCs administered by nonprofit institutions.
- Under State and Local Governments, report obligations for R&D that are provided to support R&D performed by state and local governments.
- Under Foreign, report obligations for R&D located abroad that are provided to support foreign R&D.

Definitions for these tables include:

- **Federally Funded Research and Development Centers (FFRDCs)** are R&D-performing organizations that are exclusively or substantially financed by the federal government. Your department/agency may sponsor or otherwise support an FFRDC in support of R&D that furthers your mission. The survey requests that you report FFRDC obligations separately for the type of organization that administers the FFRDC—industrial firm, university or college, or nonprofit institution. To view the list of current FFRDCs, please see the Master list of FFRDCs at <http://www.nsf.gov/statistics/ffrdclist/>. For more information on FFRDCs, please see <http://www.nsf.gov/statistics/ffrdclist/#gennotes>. (Additional information concerning FFRDCs is found in the reporting guidelines for Table IX.)
- **Foreign performers:** This category includes citizens, organizations, universities and colleges, and governments of other nations. Also, include international organizations located outside the United States who are performing R&D. This category does NOT include R&D performed by U.S. organizations or citizens in other nations. In most cases, foreigners performing R&D in the United States are not reported here. Exception: Include U.S. citizens performing R&D abroad under "special foreign currency funds." (See Public Law 480, sections 104 (a), (k), and (n), the Agricultural Trade Development and Assistance Act of 1954 as amended in 1959.) Examples of foreign performers include: North Atlantic Treatment Organization (NATO), United Nations Educational, Scientific, and Cultural Organization (UNESCO), World Health Organization (WHO).  
  
Care should be taken to report foreign performance only once. For example, if a foreign performer is an educational institution, obligations to that institution should be reported only under foreign performance and not also under universities and colleges.
- **Businesses or industrial firms:** This category of R&D performer includes business (for-profit) as well as private individuals.
- **Intramural performers:** This category includes obligations for R&D performed by federal employees either in your federal department or agency or elsewhere. This category also includes costs associated with your department's or agency's planning and administration of R&D for your intramural programs and extramural programs (i.e., programs conducted by nonfederal R&D performers). For the R&D funds transferred to another federal agency, try to report the funds where they will ultimately be performed—inside or outside the federal government. Use this category if the other federal agency's employees are expected to perform the R&D. If the R&D will eventually be conducted at university and colleges, nonprofit institutions, or





businesses, use the appropriate category for these extramural R&D performers. This category also includes the costs of supplies and equipment for the intramural R&D.

- **Nonprofit institution performers:** This category includes private organizations, other than educational institutions, whose net earnings do not benefit either private stockholders or individuals. Examples of nonprofit institutions include foundations, trade associations, charities, and research organizations. Federally funded research and development centers (FFRDCs) administered by nonprofit institutions should be reported under the separate category for R&D performers, “FFRDCs administered by nonprofit institutions.”
- **Performer:** A performer is the group, organization, or individual who conducts the R&D activities.
- **Personnel costs:** The survey items on performers ask you to break out the portion of federal intramural obligations for personnel costs. Personnel costs include salaries of both federal employees who perform R&D as well as federal employees who monitor or oversee R&D projects, both intramural and extramural.

If your budget does not include personnel costs as a line item, please estimate these R&D personnel costs and include them in your federal intramural R&D obligations. Even if all of your agency’s R&D is performed extramurally, there will be at least some personnel costs associated with monitoring or transferring the R&D program.

Examples of R&D personnel include the following: scientists, engineers, lab technicians, computer programmers, and planning and administrative personnel.

- **State and local government:** This category of R&D performer includes R&D obligations to state and local government agencies regardless of who actually performs the R&D. That is, use this category to report both R&D performed by state and local agencies and R&D subcontracted by a state or local agency to another organization. Exceptions:
  - Report state and local universities and colleges under Universities and colleges.
  - Report agricultural experiment stations under Universities and colleges.
- **Universities and colleges:** This category of R&D performer includes institutions that are engaged primarily in providing resident and/or accredited instruction for at least a 2-year program above the secondary school level. Examples of universities and colleges include the following: community colleges, four-year colleges, universities, freestanding professional schools (medical schools, law schools, etc.), hospitals and research institutes associated with universities, and agricultural experiment stations.

**Table VI.A** provides for reporting additional information on the obligations to federal intramural performers for R&D during FY 2015. This table requires the breakdown of federal intramural obligations into three types of obligations: planning and administration of intramural and extramural R&D programs, interagency transfers, and federal laboratories. These categories are to be considered mutually exclusive; if any obligations fall in multiple categories or cannot be disaggregated, estimate the amount of the total that should be allocated to each category. The total should match the last column in the first line of Table VI. Do not double-count obligations between multiple categories. In addition, this table provides space to list the name and location of each of the federal laboratory to which your agency obligated intramural R&D funds in FY 2015.

- **Planning and Administration of Intramural and Extramural R&D Programs:** Include the costs of intramural staff within your agency or department for the planning and administration of R&D projects, regardless of whether the R&D projects themselves are intramural or extramural. Exclude the costs of extramural staff for



planning and administration of extramural R&D projects funded by your agency or department.

- **Interagency Transfers:** Include all obligations for which the initial recipient of the transfer was either a laboratory operating under the oversight of another federal agency or another federal agency for use by a specific federal laboratory under that agency's oversight.
- **Federal Laboratories:** A federal laboratory is a facility or group of facilities owned, leased, or otherwise used by a federal agency, a substantial purpose of which is the performance of R&D by employees of the federal government. Each agency should report its total obligations for all federal laboratories that the agency supports. If any of the entities to which your agency obligated federal intramural R&D funds can be considered a part of multiple laboratories (e.g., entities that receive funding from multiple accounting units or operate across multiple laboratory sites or as virtual entities), categorize the entity as a part of only one laboratory using the selection criteria of your choice. Do not double-count obligations to these entities by listing the same obligations under multiple laboratories.

This table also provides space for listing each federal laboratory to which your agency obligated intramural R&D funds in FY 2015 and the location in which the laboratory operated. Each federal laboratory should be a separate entry. Organize the list of federal laboratories to conform to your agency's internal accounting structure. For example, some agencies will categorize each geographic site receiving federal intramural R&D funds as a laboratory, while other agencies may consider each sub-department within the agency receiving federal intramural R&D funds to be a laboratory.

**Table IX** provides for reporting additional information on FY 2015 R&D and R&D plant obligations to FFRDCs. This table requires the breakdown of obligations for R&D (Table VI) and R&D Plant (Table XI) reported to individual FFRDCs administered by industrial firms or businesses, FFRDCs administered by universities and colleges, and FFRDCs administered by nonprofit institutions, by each FFRDC listed. Each agency should report obligations to each FFRDC it supports, even if the FFRDC is sponsored by another agency. Agencies may not unilaterally delete organizations classified as FFRDCs from the list or add organizations to it.

**Table X** provides for reporting obligations for basic research and total R&D to foreign performers by geographic area and country.

**Table XI** provides for reporting obligations for R&D plant by the performer of R&D that the R&D plant supports, regardless of the plant's ownership or location.

- Under Federal Intramural, report obligations for R&D plant that are provided to support R&D performed intramurally.
- Under Businesses Excluding FFRDCs, report obligations for R&D plant that are provided to support R&D by businesses or industrial firms excluding FFRDCs.
- Under FFRDCs Administered by Industrial Firms, report the amount obligated for R&D plant that is provided to support R&D performed by FFRDCs administered by businesses or industrial firms.
- Under Universities and Colleges Excluding FFRDCs, report obligations for R&D plant that are provided to support R&D performed by universities and colleges excluding FFRDCs.
- Under FFRDCs Administered by Universities and Colleges, report the amount obligated for R&D plant that is provided to support R&D performed by university-administered FFRDCs.



- Under Nonprofit Institutions Excluding FFRDCs, report obligations for R&D plant that are provided to support R&D performed by nonprofit institutions excluding FFRDCs.
- Under FFRDCs Administered by Nonprofit Institutions, report obligations for R&D plant that are provided to support R&D performed by FFRDCs administered by nonprofit institutions.
- Under State and Local Governments, report obligations for R&D plant that are provided to support R&D performed by state and local governments.
- Under Foreign, report obligations for R&D plant located abroad that are provided to support foreign R&D.

NOTE: The performer of R&D determines the classification of R&D plant obligations.

**Tables A1, A2, A, and B:** Definitions that were provided earlier in these instructions for R&D, R&D plant, and performers apply to these tables.

General instructions include:

- State locations are requested only for the 11 largest R&D departments/agencies: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Report the principal location where the work is performed by the primary contractor, grantee, or intramural organization. If location information is not available, assign the obligations to the state, other area, or office abroad where the headquarters of the U.S. primary contractor, grantee, or intramural organization is located. If location information cannot be reported, assign the R&D obligations to undistributed.
- Both intramural and extramural obligations are required. The extramural obligations are to be reported in terms of prime contracts or grants.
- The amounts reported in these tables for each performer should add to the totals reported for Tables VI and XI.
- R&D obligations to foreign performers or R&D plant obligations in support of foreign performers should not be reported here. See Table X.

Specific instructions include:

- **Tables A1 and A2:** Definitions for research, development, performers, basic research, applied research, total research, universities and colleges, and fields of science and engineering that were provided earlier in these instructions apply to these tables also.
  - Table A1 is to be used to report the geographic distribution of FY 2015 obligations for basic and applied research by state and performer. The performer categories are provided in the table.
  - Table A2 is to be used to report the geographic distribution of FY 2015 obligations for development by state and performer. The performer categories are provided in the table.
- **Table A** presents the combined obligations for R&D that are reported in Tables A1 and A2. The online Table A is read-only.
- **Table B** is to be used to report the geographic distribution of FY 2015 obligations for R&D plant by state or other area and performer.



**Tables C, D, and E:** Definitions for basic research, applied research, total research, universities and colleges, and fields of science and engineering that were provided for Tables III, IV, and V in these instructions apply to these tables also.

- Obligations for basic, applied, and total research performed at universities and colleges (excluding FFRDCs) by field of science and engineering are requested only for 7 departments/agencies: the Departments of Agriculture, Defense, Energy, Health and Human Services, Homeland Security; the National Aeronautics and Space Administration; and the National Science Foundation.
- The total obligations reported in Tables C, D, and E must equal obligations for basic research, applied research, and the combined obligations for basic and applied research reported for universities and colleges, excluding FFRDCs, of Tables VI, VII, and VIII.

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## **Relationship to the Office of Management and Budget—Table I Narratives for OMB Reconciliation of R&D Outlays and R&D Plant Outlays**

Office of Management and Budget (OMB) Circular No. A-11, also called MAX Schedule C, is a mandatory report that collects data from federal agencies for the Budget of the U.S. Government. In this report, federal agencies provide OMB with data on their outlays for R&D by type of R&D (basic research, applied research, and development) and R&D plant. However, the information provided does not provide as much detail on type of R&D or performers as the Federal Funds Survey, and it provides no information on fields of science and engineering or geographic distribution. Because the Federal Funds Survey and the OMB report use the same general definitions and guidelines, certain items should be the same. These include:

- Total Outlays for R&D
- Total Outlays for R&D plant

If there are differences between the R&D data submitted for the Federal Funds Survey and for the OMB report, each reporting agency or subdivision should provide an explanation for differences in total R&D and total R&D plant outlays.

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## **Relationship to the NSF Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions (Federal S&E Support Survey)—Table VI and XI Narratives**

- Table VI Narratives—Univ and Col excl FFRDCs R&D Obligations
- Table VI Narratives—Nonprofit Insts excl FFRDCs R&D Obligations
- Table XI Narratives—Univ and Col excl FFRDCs R&D Plant Obligations
- Table XI Narratives—Nonprofit Insts excl FFRDCs R&D Plant Obligations

The following agencies have been requested to provide data to the Federal S&E Support Survey (formerly known as the CASE survey): the Departments of Agriculture, Commerce, Defense, Education, Energy, Health and Human Services, Homeland Security, Housing and Urban Development, the Interior, Labor, and Transportation; the Agency for International Development; the Appalachian Regional Commission; the Environmental Protection Agency;



the General Services Administration; the National Aeronautics and Space Administration; the National Science Foundation; the Nuclear Regulatory Commission; the Office of Justice Programs; and the Social Security Administration.

These agencies have been requested to provide specific obligations data to NSF in response to the reporting system established in 1965 by the Committee on Academic Science and Engineering (CASE) of the Federal Council for Science and Technology; this survey is referred to in these instructions as the Federal S&E Support Survey. The requested data cover obligations for R&D and R&D plant to universities, colleges, and nonprofit institutions, as well as data on other activities. In general the concepts and definitions used in the Federal S&E Support Survey conform to the general guidelines in the Federal Funds Survey. Thus, for agencies participating in both surveys, overall totals for R&D and R&D plant to universities, colleges, and nonprofit institutions should be essentially the same. Where differences appear in data reported for the two surveys, each reporting agency or subdivision should provide an explanation.

Different totals can sometimes result from the fact that reporting for the Federal Funds Survey and for the Federal S&E Support Survey is accomplished in different ways. For the Federal Funds Survey, each agency includes in its reporting the amounts transferred to other agencies for furtherance of its own purposes; the receiving agencies do not report funds transferred to them. In the Federal S&E Support Survey, however, the data are reported by the agencies in terms of individual performing institutions, and because of this requirement, only the agency that makes the final distribution of the funds can readily determine where the transferred or reimbursable funds are obligated. For this reason agencies reporting to the Federal S&E Support Survey include funds received from other agencies and exclude funds transferred to other agencies, the reverse of the procedure for the Federal Funds Survey.

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## To Get Help

Contact us by e-mail at [NSFFedFunds@smdi.com](mailto:NSFFedFunds@smdi.com) or at 703-312-5379 for additional help.



## Contact Information

\* Required

Person Submitting the Data		
First name:*		Middle initial:
Last name:*		
Title:		
Address		
Street address 1:		
Street address 2:		
City:		State:
Zip:		
Contact Information		
Telephone:*		Ext.:
Fax:		
E-mail address:*		
Supervisor Information		
First name:*		Middle initial:
Last name:*		
Title:		
Telephone:*		Ext.:
E-mail address*		



### Table I - Outlays for R&D and R&D Plant: FYs 2015, 2016, and 2017

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

R&D and R&D Plant	FY 2015	FY 2016	FY 2017
R&D			
R&D Plant			
TOTAL R&D and R&D Plant (Read Only)			

Please use the space below to add explanations for data reported in this table.





### Table I - Narrative I - Comparison with OMB MAX Schedule C for Federal R&D Programs: FYs 2015, 2016, and 2017

**Agency Code:**

**Agency Name:**

This is the 1<sup>st</sup> of 2 narratives for Table I.

NOTE: Please report actual dollars for all amounts.

Total R&D Outlays	FY 2015	FY 2016	FY 2017
Outlays for Total R&D Reported in Table 1 (Read Only)			
Outlays for Total R&D Reported to OMB in Response to Circular Number A-11 (Max Schedule C)			
Difference in Outlays Reported in Table I and Outlays Reported to OMB (Read Only)			

Please explain any differences in Outlays between the two reports.



### Table I - Narrative II - Comparison with OMB MAX Schedule C for Federal R&D Facilities (R&D Plant): FYs 2015, 2016, and 2017

**Agency Code:**

**Agency Name:**

This is the 2<sup>nd</sup> of 2 narratives for Table I.

NOTE: Please report actual dollars for all amounts.

Total R&D Plant Outlays	FY 2015	FY 2016	FY 2017
Outlays for Total R&D Plant Reported in Table 1 (Read Only)			
Outlays for Total R&D Facilities Reported to OMB in Response to Circular Number A-11 (Max Schedule C)			
Difference in Outlays Reported in Table I and Outlays Reported to OMB (Read Only)			

Please explain any differences in Outlays between the two reports.



**Table II - Summary of Obligations for R&D and R&D Plant: FYs 2015, 2016, and 2017**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

<b>R&amp;D</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
Research			
Basic Research			
Applied Research			
Total Research <sup>1</sup> (Read Only)			
Development			
Advanced Technology Development			
Major Systems Development			
Total Development <sup>2</sup> (Read Only)			
Total R&D (Read Only)			
<b>R&amp;D Plant</b>			
R&D Plant			
TOTAL R&D and R&D Plant (Read Only)			

Please use the space below to add explanations for data reported in this table.

Footnotes:

- 1 Basic Research + Applied Research = Total Research.
- 2 Advanced Technology Development + Major Systems Development = Total Development.



**Table III - Obligations for Basic, Applied, and Total Research by Detailed Field of Science and Engineering: FY 2015**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

Field of Science and Engineering	Basic Research	Applied Research	Total Research <sup>1</sup> (Read Only)
	FY 2015	FY 2015	FY 2015
Computer Sciences and Mathematics			
Computer Sciences			
Mathematics			
Other Computer Sciences and Mathematics			
Total Computer Sciences and Mathematics (Read Only)			
Engineering			
Aeronautical Engineering			
Astronautical Engineering			
Chemical Engineering			
Civil Engineering			
Electrical Engineering			
Mechanical Engineering			
Metallurgy and Materials Engineering			
Other Engineering			
Total Engineering (Read Only)			
Environmental Sciences			
Atmospheric Sciences			
Geological Sciences			
Oceanography			
Other Environmental Sciences			
Total Environmental Sciences (Read Only)			
Life Sciences			
Agricultural Sciences			
Biological Sciences (excluding Environmental)			
Environmental Biology			



Field of Science and Engineering	Basic Research	Applied Research	Total Research <sup>1</sup> (Read Only)
	FY 2015	FY 2015	FY 2015
Medical Sciences			
Other Life Sciences			
Total Life Sciences (Read Only)			
Physical Sciences			
Astronomy			
Chemistry			
Physics			
Other Physical Sciences			
Total Physical Sciences (Read Only)			
Psychology			
Biological Aspects			
Social Aspects			
Other Psychological Sciences			
Total Psychology (Read Only)			
Social Sciences			
Anthropology			
Economics			
Political Science			
Sociology			
Other Social Sciences			
Total Social Sciences (Read Only)			
Other Sciences not elsewhere classified			
TOTAL All Fields <sup>2</sup> (Read Only)			

Please use the space below to add explanations for data reported in this table.

Footnotes:

- 1 Basic Research + Applied Research = Total Research.
- 2 The total for column 1 should equal the amount reported for FY 2015 basic research in Table II. The total for column 2 should equal the amount reported for FY 2015 applied research in Table II.



### Table IV - Obligations for Basic, Applied, and Total Research by Field of Science and Engineering: FY 2016

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

Field of Science and Engineering	Basic Research	Applied Research	Total Research <sup>1</sup> (Read Only)
	FY 2016	FY 2016	FY 2016
Computer Sciences and Mathematics			
Engineering			
Environmental Sciences			
Life Sciences			
Physical Sciences			
Psychology			
Social Sciences			
Other Sciences not elsewhere classified			
TOTAL All Fields <sup>2</sup> (Read Only)			

Please use the space below to add explanations for data reported in this table.

Footnotes:

- 1 Basic Research + Applied Research = Total Research.
- 2 The total for column 1 should equal the amount reported for FY 2016 basic research in Table II. The total for column 2 should equal the amount reported for FY 2016 applied research in Table II.



**Table V - Obligations for Basic, Applied, and Total Research by Field of Science and Engineering: FY 2017**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

Field of Science and Engineering	Basic Research	Applied Research	Total Research <sup>1</sup> (Read Only)
	FY 2017	FY 2017	FY 2017
Computer Sciences and Mathematics			
Engineering			
Environmental Sciences			
Life Sciences			
Physical Sciences			
Psychology			
Social Sciences			
Other Sciences not elsewhere classified			
TOTAL All Fields <sup>2</sup> (Read Only)			

Please use the space below to add explanations for data reported in this table.

Footnotes:

- 1 Basic Research + Applied Research = Total Research.
- 2 The total for column 1 should equal the amount reported for FY 2017 basic research in Table II. The total for column 2 should equal the amount reported for FY 2017 applied research in Table II.





**Table VI - R&D Obligations by Performer and Type of R&D: FY 2015**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

Performer	Basic Research	Applied Research	Advanced Technology Development	Major Systems Development	Total R&D (Read Only)
	FY 2015	FY 2015	FY 2015	FY 2015	FY 2015
Federal Intramural <sup>1</sup>					
Portion of Federal Intramural for Personnel Costs <sup>2</sup>	( )	( )	( )	( )	( )
Businesses Excl FFRDCs					
FFRDCs Admin by Industrial Firms					
Univ and Colleges Excl FFRDCs					
FFRDCs Admin by Univ and Colleges					
Nonprofit Insts Excl FFRDCs					
FFRDCs Admin by Nonprofit Insts					
State and Local Governments					
Total All Domestic Performers (Read Only)					
Foreign					
TOTAL All Performers <sup>3</sup> (Read Only)					

Please use the space below to add explanations for data reported in this table.

Key: FFRDCs = Federally funded research and development centers.

Footnotes:	
1	Include (1) R&D conducted by federal agencies and (2) your agency's costs for monitoring R&D contracts, grants, and cooperative agreements.
2	Include the portion of federal intramural costs (reported above) associated with (1) personnel costs for the planning and administration of extramural R&D and (2) personnel costs for federal intramural research projects.
3	Total should equal basic research, applied research, advanced technology development, and major systems development in Table II for FY 2015.



### Table VI - Narrative I - Comparison of R&D with Federal S&E Support Survey, Universities and Colleges (excluding FFRDCs): FY 2015

**Agency Code:**

**Agency Name:**

This is the 1<sup>st</sup> of 2 narratives for Table VI.

NOTE: Please report actual dollars for all amounts.

R&D	Total R&D
	FY 2015
Amount reported in Table VI, row total for R&D performed by Universities and Colleges (excluding FFRDCs) (Read Only)	
Amount reported for R&D to Universities and Colleges (total for all Institutions) in the Federal S&E Support Survey	
DIFFERENCE (Read Only)	

Key: FFRDCs = Federally funded research and development centers.

Your agency's total for NSF's Federal Funds and Federal S&E Support Surveys can differ if you transfer R&D funding to other federal agencies or receive R&D funding from other agencies.

	Federal Funds Survey	Federal S&E Support Survey
Focus of the survey questions	R&D obligations funded by your agency	Obligations for R&D performing institutions (Note: Only the federal agency directly providing R&D funding knows which institutions are performing the R&D)
How amounts are treated for R&D funds transferred to other federal agencies	Included	Excluded
How amounts are treated for R&D funds transferred from other federal agencies	Excluded	Included

Please enter an explanation of any differences in the R&D Obligations between the two reports.



### Table VI - Narrative II - Comparison of R&D with Federal S&E Support Survey, Nonprofit Institutions (excluding FFRDCs): FY 2015

**Agency Code:**

**Agency Name:**

This is the 2<sup>nd</sup> of 2 narratives for Table VI.

NOTE: Please report actual dollars for all amounts.

R&D	Total R&D
	FY 2015
Amount reported in Table VI, row total for R&D performed by Nonprofit Institutions (excluding FFRDCs) (Read Only)	
Amount reported for R&D to Nonprofit Institutions (total for all Institutions) in the Federal Support S&E Survey	
DIFFERENCE (Read Only)	

Key: FFRDCs = Federally funded research and development centers.

Your agency's total for NSF's Federal Funds and Federal S&E Support Surveys can differ if you transfer R&D funding to other federal agencies or receive R&D funding from other agencies.

	Federal Funds Survey	Federal S&E Support Survey
Focus of the survey questions	R&D obligations funded by your agency	Obligations for R&D performing institutions (Note: Only the federal agency directly providing R&D funding knows which institutions are performing the R&D)
How amounts are treated for R&D funds transferred to other federal agencies	Included	Excluded
How amounts are treated for R&D funds transferred from other federal agencies	Excluded	Included

Please enter an explanation of any differences in the R&D Obligations between the two reports.



### Table VI.A – Federal Intramural R&D Obligations: FY 2015

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

Type of Obligation	Federal Intramural R&D Obligations <sup>1</sup> FY 2015
Planning and administration of intramural and extramural R&D programs	
Interagency transfers	
TOTAL Federal laboratories <sup>2</sup>	
TOTAL Federal Intramural R&D	
Laboratory Name	Address, City, State, Zip

If you experienced difficulty categorizing any of the obligations in Table VI.A, or if you would like to provide additional information about your responses, please share them with us here:

**Footnotes:**

- 1 Include (1) R&D conducted by federal agencies and (2) your agency’s costs for monitoring R&D contracts, grants, and cooperative agreements.
- 2 Include all of your agency’s federal laboratories to which your agency obligated R&D funds in FY 2015.



**Table VII - R&D Obligations by Performer and Type of R&D: FY 2016**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

	<b>Basic Research</b>	<b>Applied Research</b>	<b>Advanced Technology Development</b>	<b>Major Systems Development</b>	<b>Total R&amp;D (Read Only)</b>
<b>Performer</b>	FY 2016	FY 2016	FY 2016	FY 2016	FY 2016
Federal Intramural <sup>1</sup>					
Portion of Federal Intramural for Personnel Costs <sup>2</sup>	( )	( )	( )	( )	( )
Businesses Excl FFRDCs					
FFRDCs Admin by Industrial Firms					
Univ and Colleges Excl FFRDCs					
FFRDCs Admin by Univ and Colleges					
Nonprofit Insts Excl FFRDCs					
FFRDCs Admin by Nonprofit Insts					
State and Local Governments					
Total All Domestic Performers (Read Only)					
Foreign					
TOTAL All Performers <sup>3</sup> (Read Only)					

Please use the space below to add explanations for data reported in this table.

Key: FFRDCs = Federally funded research and development centers.

<b>Footnotes:</b>	
1	Include (1) R&D conducted by federal agencies and (2) your agency's costs for monitoring R&D contracts, grants, and cooperative agreements.
2	Include the portion of federal intramural costs (reported above) associated with (1) personnel costs for the planning and administration of extramural R&D and (2) personnel costs for federal intramural research projects.
3	Total should equal basic research, applied research, advanced technology development, and major systems development in Table II for FY 2016.



**Table VIII - R&D Obligations by Performer and Type of R&D: FY 2017**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

Performer	Basic Research	Applied Research	Advanced Technology Development	Major Systems Development	Total R&D (Read Only)
	FY 2017	FY 2017	FY 2017	FY 2017	FY 2017
Federal Intramural <sup>1</sup>					
Portion of Federal Intramural for Personnel Costs <sup>2</sup>	( )	( )	( )	( )	( )
Businesses Excl FFRDCs					
FFRDCs Admin by Industrial Firms					
Univ and Colleges Excl FFRDCs					
FFRDCs Admin by Univ and Colleges					
Nonprofit Insts Excl FFRDCs					
FFRDCs Admin by Nonprofit Insts					
State and Local Governments					
Total All Domestic Performers (Read Only)					
Foreign					
TOTAL All Performers <sup>3</sup> (Read Only)					

Please use the space below to add explanations for data reported in this table.

Key: FFRDCs = Federally funded research and development centers.

Footnotes:	
1	Include (1) R&D conducted by federal agencies and (2) your agency's costs for monitoring R&D contracts, grants, and cooperative agreements.
2	Include the portion of federal intramural costs (reported above) associated with (1) personnel costs for the planning and administration of extramural R&D and (2) personnel costs for federal intramural research projects.
3	Total should equal basic research, applied research, advanced technology development, and major systems development in Table II for FY 2017.



**Table IX - Obligations for R&D and R&D Plant at Individual Federally Funded Research and Development Centers (FFRDCs): FY 2015**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

Administered by Industrial Firms	R&D Obligations	R&D Plant Obligations
Frederick National Laboratory for Cancer Research (Leidos Biomedical Research, Inc. (formerly known as SAIC-Frederick Inc.)) Frederick, MD		
Idaho National Laboratory (Battelle Energy Alliance, LLC) Idaho Falls, ID		
Lawrence Livermore National Laboratory (Lawrence Livermore National Security, LLC) Livermore, CA		
Los Alamos National Laboratory (Los Alamos National Security, LLC) Los Alamos, NM		
Sandia National Laboratories (Sandia Corporation, a subsidiary of Lockheed Martin Corp.) Albuquerque, NM		
Savannah River National Laboratory (Savannah River Nuclear Solutions, LLC) Aiken, SC		
TOTAL Industrial-Administered FFRDCs <sup>1, 2</sup> (Read Only)		

Administered by Universities and Colleges <sup>3</sup>	R&D Obligations	R&D Plant Obligations
Ames Laboratory (Iowa State University) Ames, IA		
Argonne National Laboratory (UChicago Argonne, LLC) Argonne, IL		
Fermi National Accelerator Laboratory (Fermi Research Alliance, LLC) Batavia, IL		
Jet Propulsion Laboratory (California Institute of Technology) Pasadena, CA		
Lawrence Berkeley National Laboratory (University of California) Berkeley, CA		
Lincoln Laboratory (Massachusetts Institute of Technology) Lexington, MA		
National Center for Atmospheric Research (University Corporation for Atmospheric Research) Boulder, CO		
National Optical Astronomy Observatory (Association of Universities for Research in Astronomy, Inc.) Tucson, AZ		
National Radio Astronomy Observatory (Associated Universities, Inc.) Charlottesville, VA (Read Only)		





Administered by Universities and Colleges <sup>3</sup>	R&D Obligations	R&D Plant Obligations
National Radio Astronomy Observatory -- Charlottesville, VA		
National Radio Astronomy Observatory -- Green Bank, WV		
National Solar Observatory (Association of Universities for Research in Astronomy, Inc.) Sunspot, NM		
Princeton Plasma Physics Laboratory (Princeton University) Princeton, NJ		
SLAC National Accelerator Laboratory (Stanford University) Menlo Park, CA		
Software Engineering Institute (Carnegie Mellon University) Pittsburgh, PA		
Thomas Jefferson National Accelerator Facility (Jefferson Science Associates, LLC) Newport News, VA		
TOTAL University and College-Administered FFRDCs <sup>4, 5</sup> (Read Only)		

Administered by Nonprofit Institutions <sup>6</sup>	R&D Obligations	R&D Plant Obligations
Aerospace Federally Funded Research and Development Center (The Aerospace Corp.) El Segundo, CA		
Arroyo Center (RAND Corp.) Santa Monica, CA		
Brookhaven National Laboratory (Brookhaven Science Associates, LLC) Upton, NY		
Center for Advanced Aviation System Development (MITRE Corp.) McLean, VA		
Center for Communications and Computing (Institute for Defense Analyses) Alexandria, VA		
Center for Enterprise Modernization (MITRE Corp.) McLean, VA		
Center for Naval Analyses (The CNA Corporation) Alexandria, VA		
Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute) San Antonio, TX		
CMS Alliance to Modernize Healthcare (MITRE Corp.) Baltimore, MD		
Homeland Security Studies and Analysis Institute (Analytic Services, Inc.) Arlington, VA		
Homeland Security Systems Engineering and Development Institute (MITRE Corp.) McLean, VA		
Judiciary Engineering and Modernization Center (MITRE Corp.) McLean, VA		



Administered by Nonprofit Institutions <sup>6</sup>	R&D Obligations	R&D Plant Obligations
National Biodefense Analysis and Countermeasures Center (Battelle National Biodefense Institute) Frederick, MD		
National Cybersecurity Center of Excellence (MITRE Corp.) Rockville, MD		
National Defense Research Institute (RAND Corp.) Santa Monica, CA		
National Renewable Energy Laboratory (Alliance for Sustainable Energy, LLC) Golden, CO		
National Security Engineering Center (MITRE Corp.) Bedford, MA, and McLean, VA (Read Only)		
NSEC -- Bedford, MA Laboratory Bedford, MA		
NSEC -- McLean, VA Laboratory McLean, VA		
Oak Ridge National Laboratory (UT-Battelle, LLC) Oak Ridge, TN		
Pacific Northwest National Laboratory (Battelle Memorial Institute) Richland, WA		
Project Air Force (RAND Corp.) Santa Monica, CA		
Science and Technology Policy Institute (Institute for Defense Analyses) Washington, DC		
Systems and Analyses Center (Institute for Defense Analyses) Alexandria, VA		
TOTAL Nonprofit-Administered FFRDCs <sup>7, 8</sup> (Read Only)		

Please use the space below to add explanations for data reported in this table.

Key: FFRDCs = Federally funded research and development centers.

Notes: Each supporting agency should report obligations to each FFRDC it uses even though the FFRDC may be under the sponsorship of another agency. See NSF's website for a list of FFRDCs shown by sponsoring agency and administering organization.

Footnotes:	
1	Total for column 1 should equal combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in FFRDCs Administered by Industrial Firms of Table VI.
2	Total for column 2 should equal FFRDCs Administered by Industrial Firms of Table XI for the FY 2015 column.
3	Includes university consortia.
4	Total for column 1 should equal combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in FFRDCs Administered by Universities and Colleges of Table VI.



- 5 Total for column 2 should equal FFRDCs Administered by Universities and Colleges of Table XI for FY 2015.
- 6 Other than universities and colleges.
- 7 Total for column 1 should equal combined obligations for basic research, applied research, advanced technology development, and major systems development, as reported in FFRDCs Administered by Nonprofit Institutions of Table VI.
- 8 Total for column 2 should equal FFRDCs Administered by Nonprofit Institutions of Table XI for FY 2015.



**Table X - Obligations to Foreign Performers by Country for Basic Research and Total R&D: FY 2015**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

<b>Geographic Area and Country</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total R&amp;D<sup>2</sup></b>
<b>Africa</b>		
Algeria		
Angola		
Benin		
Botswana		
Burkina Faso		
Burundi		
Cameroon		
Cape Verde		
Central African Republic		
Chad		
Comoros		
Congo, Democratic Republic of the		
Congo, Republic of the		
Côte d'Ivoire		
Djibouti		
Egypt		
Equatorial Guinea		
Eritrea		
Ethiopia		
Gabon		
Gambia, The		
Ghana		
Guinea		
Guinea-Bissau		
Kenya		
Lesotho		
Liberia		
Libya		
Madagascar		
Malawi		



<b>Geographic Area and Country</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total R&amp;D<sup>2</sup></b>
Mali		
Mauritania		
Mauritius		
Morocco		
Mozambique		
Namibia		
Niger		
Nigeria		
Reunion		
Rwanda		
Saint Helena		
Sao Tome and Principe		
Senegal		
Seychelles		
Sierra Leone		
Somalia		
South Africa		
Sudan		
Swaziland		
Tanzania		
Togo		
Tunisia		
Uganda		
Western Sahara		
Zambia		
Zimbabwe		
African countries, other		
Africa, Total (Read Only)		
<b>Asia</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total R&amp;D<sup>2</sup></b>
Afghanistan		
Armenia		
Azerbaijan		
Bahrain		
Bangladesh		
Bhutan		
Brunei		



Geographic Area and Country	Basic Research Only <sup>1</sup>	Total R&D <sup>2</sup>
Cambodia		
China		
Cyprus		
Gaza Strip		
Georgia		
Hong Kong		
India		
Indonesia		
Iran		
Iraq		
Israel		
Japan		
Jordan		
Kazakhstan		
Korea, North		
Korea, South		
Kuwait		
Kyrgyzstan		
Laos		
Lebanon		
Macau		
Malaysia		
Maldives		
Mongolia		
Myanmar/Burma		
Nepal		
Oman		
Pakistan		
Palestine		
Philippines		
Qatar		
Saudi Arabia		
Singapore		
Sri Lanka		
Syria		
Taiwan		
Tajikistan		



<b>Geographic Area and Country</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total R&amp;D<sup>2</sup></b>
Thailand		
Timor-Leste		
Turkey		
Turkmenistan		
United Arab Emirates		
Uzbekistan		
Vietnam		
West Bank		
Yemen		
Asian countries, other		
Asia, Total (Read Only)		
<b>Europe</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total R&amp;D<sup>2</sup></b>
Albania		
Andorra		
Austria		
Belarus		
Belgium		
Bosnia and Herzegovina		
Bulgaria		
Croatia		
Czech Republic		
Denmark		
Estonia		
Faroe Islands		
Finland		
France		
Germany		
Gibraltar		
Greece		
Holy See		
Hungary		
Iceland		
Ireland		
Italy		
Latvia		
Liechtenstein		



<b>Geographic Area and Country</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total R&amp;D<sup>2</sup></b>
Lithuania		
Luxembourg		
Macedonia		
Malta		
Moldova		
Monaco		
Montenegro		
Netherlands		
Norway		
Poland		
Portugal		
Romania		
Russia		
San Marino		
Serbia		
Slovakia		
Slovenia		
Spain		
Sweden		
Switzerland		
Ukraine		
United Kingdom		
European countries, other		
Europe, Total (Read Only)		
<b>North America</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total R&amp;D<sup>2</sup></b>
Anguilla		
Antigua and Barbuda		
Aruba		
Bahamas, The		
Barbados		
Belize		
Bermuda		
Canada		
Cayman Islands		
Costa Rica		
Cuba		





<b>Geographic Area and Country</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total R&amp;D<sup>2</sup></b>
Curaçao		
Dominica		
Dominican Republic		
El Salvador		
Greenland		
Grenada		
Guadeloupe		
Guatemala		
Haiti		
Honduras		
Jamaica		
Martinique		
Mexico		
Montserrat		
Nicaragua		
Panama		
Saint Kitts and Nevis		
Saint Lucia		
Saint Pierre and Miquelon		
Saint Vincent and the Grenadines		
Sint Maarten		
Trinidad and Tobago		
Turks and Caicos Islands		
Virgin Islands, British		
North American countries, other		
North America, Total (Read Only)		
<b>Oceania</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total R&amp;D<sup>2</sup></b>
Australia		
Cook Islands		
Fiji		
French Polynesia		
Kiribati		
Marshall Islands		
Micronesia, Federated States of		
Nauru		
New Caledonia		



<b>Geographic Area and Country</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total R&amp;D<sup>2</sup></b>
New Zealand		
Niue		
Palau		
Papua New Guinea		
Samoa		
Solomon Islands		
Tokelau		
Tonga		
Tuvalu		
Vanuatu		
Oceanic countries, other		
Oceania, Total (Read Only)		
<b>South America</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total R&amp;D<sup>2</sup></b>
Argentina		
Bolivia		
Brazil		
Chile		
Colombia		
Ecuador		
Falkland Islands (Islas Malvinas)		
French Guiana		
Guyana		
Paraguay		
Peru		
Suriname		
Uruguay		
Venezuela		
South American countries, other		
South America, Total (Read Only)		
<b>Other</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total &amp;D<sup>2</sup></b>
International Organizations		
<b>Total</b>	<b>Basic Research Only<sup>1</sup></b>	<b>Total R&amp;D<sup>2</sup></b>
TOTAL, all foreign performers (Read Only)		



Please use the space below to add explanations for data reported in this table.

Footnotes:

- 1 Total for column 1 should equal basic research in the "Foreign" category of performer for Table VI.
- 2 Total for column 2 should equal R&D total in the "Foreign" category of performer in Table VI.



**Table XI - Obligations for R&D Plant by Performer of R&D: FYs 2015, 2016, and 2017**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

Performer	FY 2015	FY 2016	FY 2017
Federal Intramural <sup>1</sup>			
Businesses Excl FFRDCs			
FFRDCs Admin by Industrial Firms			
Univ and Colleges Excl FFRDCs			
FFRDCs Admin by Univ and Colleges			
Nonprofit Insts Excl FFRDCs			
FFRDCs Admin by Nonprofit Insts			
State and Local Governments			
Total All Domestic Performers (Read Only)			
Foreign			
TOTAL All Performers <sup>2</sup> (Read Only)			

Please use the space below to add explanations for data reported in this table.

Key: FFRDCs = Federally funded research and development centers.

Footnotes:	
1	Include (1) R&D conducted by federal agencies and (2) your agency's costs for monitoring R&D contracts, grants, and cooperative agreements.
2	Should equal total R&D of Table II.



### Table XI - Narrative I - Comparison of R&D Plant with Federal S&E Support Survey, Universities and Colleges (excluding FFRDCs): FY 2015

**Agency Code:**

**Agency Name:**

This is the 1<sup>st</sup> of 2 narratives for Table XI.

NOTE: Please report actual dollars for all amounts.

R&D Plant	FY 2015
Amount reported in Table XI, Universities and Colleges (excluding FFRDCs) (Read Only)	
Amount reported for R&D Plant to Universities and Colleges (total for all Institutions) in the Federal S&E Support Survey	
DIFFERENCE (Read Only)	

Key: FFRDCs = Federally funded research and development centers.

Your agency’s total for NSF’s Federal Funds and Federal S&E Support Surveys can differ if you transfer R&D plant funding to other federal agencies or receive R&D plant funding from other agencies.

	Federal Funds Survey	Federal S&E Support Survey
Focus of the survey questions	R&D plant obligations funded by your agency	Obligations for R&D performing institutions (Note: Only the federal agency directly providing R&D plant funding knows which institutions are performing the R&D)
How amounts are treated for R&D plant funds transferred to other federal agencies	Included	Excluded
How amounts are treated for R&D plant funds transferred from other federal agencies	Excluded	Included

Please enter an explanation of any R&D Plant Obligations differences between the two reports.



### Table XI - Narrative II - Comparison of R&D Plant with Federal S&E Support Survey, Nonprofit Institutions (excluding FFRDCs): FY 2015

**Agency Code:**

**Agency Name:**

This is the 2<sup>nd</sup> of 2 narratives for Table XI.

NOTE: Please report actual dollars for all amounts.

R&D Plant	FY 2015
Amount reported in Table XI, Nonprofit Institutions (excluding FFRDCs) (Read Only)	
Amount reported for R&D Plant to Nonprofit Institutions (total for all Institutions) in the Federal S&E Support Survey	
DIFFERENCE (Read Only)	

Key: FFRDCs = Federally funded research and development centers.

Your agency’s total for NSF’s Federal Funds and Federal S&E Support Surveys can differ if you transfer R&D funding to other federal agencies or receive R&D funding from other agencies.

	Federal Funds Survey	Federal S&E Support Survey
Focus of the survey questions	R&D plant obligations funded by your agency	Obligations for R&D performing institutions (Note: Only the federal agency directly providing R&D plant funding knows which institutions are performing the R&D)
How amounts are treated for R&D plant funds transferred to other federal agencies	Included	Excluded
How amounts are treated for R&D plant funds transferred from other federal agencies	Excluded	Included

Please enter an explanation of any R&D Plant Obligations differences between the two reports.



**Table A1 - Obligations for Basic and Applied Research by State and Performer: FY 2015**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

State	Federal Intra-mural <sup>1</sup>	Businesses Excluding FFRDCs <sup>2</sup>	FFRDCs Admin by Industrial Firms <sup>3</sup>	Univ and Colleges Excluding FFRDCs <sup>4</sup>	FFRDCs Admin by Univ and Colleges <sup>5</sup>	Nonprofit Insts Excluding FFRDCs <sup>6</sup>	FFRDCs Admin by Nonprofit Insts <sup>7</sup>	State and Local Governments <sup>8</sup>
Alabama								
Alaska								
Arizona								
Arkansas								
California								
Colorado								
Connecticut								
Delaware								
District of Columbia								
Florida								
Georgia								
Hawaii								
Idaho								
Illinois								
Indiana								
Iowa								
Kansas								
Kentucky								
Louisiana								
Maine								
Maryland								
Massachusetts								
Michigan								
Minnesota								
Mississippi								
Missouri								
Montana								
Nebraska								



State	Federal Intra-mural <sup>1</sup>	Businesses Excluding FFRDCs <sup>2</sup>	FFRDCs Admin by Industrial Firms <sup>3</sup>	Univ and Colleges Excluding FFRDCs <sup>4</sup>	FFRDCs Admin by Univ and Colleges <sup>5</sup>	Nonprofit Insts Excluding FFRDCs <sup>6</sup>	FFRDCs Admin by Nonprofit Insts <sup>7</sup>	State and Local Govern-ments <sup>8</sup>
Nevada								
New Hampshire								
New Jersey								
New Mexico								
New York								
North Carolina								
North Dakota								
Ohio								
Oklahoma								
Oregon								
Pennsylvania								
Rhode Island								
South Carolina								
South Dakota								
Tennessee								
Texas								
Utah								
Vermont								
Virginia								
Washington								
West Virginia								
Wisconsin								
Wyoming								
Offices abroad								
Puerto Rico								
Other areas								
Undistributed								
TOTAL (Read Only)								

Please use the space below to add explanations for data reported in this table.

Key: FFRDCs = Federally funded research and development centers.





"Other areas" includes U.S. territories other than Puerto Rico.

"Offices abroad" includes R&D performed or administered in foreign countries by the U.S. government.

"Undistributed" includes Department of Defense obligations for which location of performance cannot be reported.

Footnotes:

- 1 Column total should equal total research (Basic Research + Applied Research) for Federal Intramural, as reported in Table VI.
- 2 Column total should equal total research (Basic Research + Applied Research) for Businesses Excluding FFRDCs, as reported in Table VI.
- 3 Column total should equal total research (Basic Research + Applied Research) for FFRDCs Admin by Industrial Firms, as reported in Table VI.
- 4 Column total should equal total research (Basic Research + Applied Research) for Universities and Colleges Excluding FFRDCs, as reported in Table VI.
- 5 Column total should equal total research (Basic Research + Applied Research) for FFRDCs Admin by Universities and Colleges, as reported in Table VI.
- 6 Column total should equal total research (Basic Research + Applied Research) for Nonprofit Institutions Excluding FFRDCs, as reported in Table VI.
- 7 Column total should equal total research (Basic Research + Applied Research) for FFRDCs Admin by Nonprofit Institutions, as reported in Table VI.
- 8 Column total should equal total research (Basic Research + Applied Research) for State and Local Governments, as reported in Table VI.



**Table A2 - Obligations for Development by State and Performer: FY 2015**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

State	Federal Intra-mural <sup>1</sup>	Businesses Excluding FFRDCs <sup>2</sup>	FFRDCs Admin by Industrial Firms <sup>3</sup>	Univ and Colleges Excluding FFRDCs <sup>4</sup>	FFRDCs Admin by Univ and Colleges <sup>5</sup>	Nonprofit Insts Excluding FFRDCs <sup>6</sup>	FFRDCs Admin by Nonprofit Insts <sup>7</sup>	State and Local Governments <sup>8</sup>
Alabama								
Alaska								
Arizona								
Arkansas								
California								
Colorado								
Connecticut								
Delaware								
District of Columbia								
Florida								
Georgia								
Hawaii								
Idaho								
Illinois								
Indiana								
Iowa								
Kansas								
Kentucky								
Louisiana								
Maine								
Maryland								
Massachusetts								
Michigan								
Minnesota								
Mississippi								
Missouri								
Montana								
Nebraska								
Nevada								



State	Federal Intra-mural <sup>1</sup>	Businesses Excluding FFRDCs <sup>2</sup>	FFRDCs Admin by Industrial Firms <sup>3</sup>	Univ and Colleges Excluding FFRDCs <sup>4</sup>	FFRDCs Admin by Univ and Colleges <sup>5</sup>	Nonprofit Insts Excluding FFRDCs <sup>6</sup>	FFRDCs Admin by Nonprofit Insts <sup>7</sup>	State and Local Govern-ments <sup>8</sup>
New Hampshire								
New Jersey								
New Mexico								
New York								
North Carolina								
North Dakota								
Ohio								
Oklahoma								
Oregon								
Pennsylvania								
Rhode Island								
South Carolina								
South Dakota								
Tennessee								
Texas								
Utah								
Vermont								
Virginia								
Washington								
West Virginia								
Wisconsin								
Wyoming								
Offices abroad								
Puerto Rico								
Other areas								
Undistributed								
TOTAL (Read Only)								

Please use the space below to add explanations for data reported in this table.

Key: FFRDCs = Federally funded research and development centers.

"Other areas" includes U.S. territories other than Puerto Rico.



"Offices abroad" includes R&D performed or administered in foreign countries by the U.S. government.  
"Undistributed" includes Department of Defense obligations for which location of performance cannot be reported.

Footnotes:

- 1 Column total should equal total development (Advanced Technology Development + Major Systems Development) for Federal Intramural, as reported in Table VI.
- 2 Column total should equal total development (Advanced Technology Development + Major Systems Development) for Businesses Excluding FFRDCs, as reported in Table VI.
- 3 Column total should equal total development (Advanced Technology Development + Major Systems Development) for FFRDCs Admin by Industrial Firms, as reported in Table VI.
- 4 Column total should equal total development (Advanced Technology Development + Major Systems Development) for Universities and Colleges Excluding FFRDCs, as reported in Table VI.
- 5 Column total should equal total development (Advanced Technology Development + Major Systems Development) for FFRDCs Admin by Universities and Colleges, as reported in Table VI.
- 6 Column total should equal total development (Advanced Technology Development + Major Systems Development) for Nonprofit Institutions Excluding FFRDCs, as reported in Table VI.
- 7 Column total should equal total development (Advanced Technology Development + Major Systems Development) for FFRDCs Admin by Nonprofit Institutions, as reported in Table VI.
- 8 Column total should equal total development (Advanced Technology Development + Major Systems Development) for State and Local Governments, as reported in Table VI.



### Table A - R&D Obligations by State and Performer: FY 2015

**Agency Code:**

**Agency Name:**

The online version is read-only and carries the following notice:

**READ-ONLY VERSION TABLE**  
**The R&D obligations data entered in Tables A1 and A2 are shown below. If you have warnings, please make sure explanations are provided on Tables A1 and A2.**

NOTE: Please report actual dollars for all amounts.

State	Federal Intra-mural <sup>1</sup>	Businesses Excluding FFRDCs <sup>2</sup>	FFRDCs Admin by Industrial Firms <sup>3</sup>	Univ and Colleges Excluding FFRDCs <sup>4</sup>	FFRDCs Admin by Univ and Colleges <sup>5</sup>	Nonprofit Insts Excluding FFRDCs <sup>6</sup>	FFRDCs Admin by Nonprofit Insts <sup>7</sup>	State and Local Governments <sup>8</sup>
Alabama								
Alaska								
Arizona								
Arkansas								
California								
Colorado								
Connecticut								
Delaware								
District of Columbia								
Florida								
Georgia								
Hawaii								
Idaho								
Illinois								
Indiana								
Iowa								
Kansas								
Kentucky								
Louisiana								
Maine								
Maryland								
Massachusetts								
Michigan								
Minnesota								
Mississippi								



State	Federal Intra-mural <sup>1</sup>	Businesses Excluding FFRDCs <sup>2</sup>	FFRDCs Admin by Industrial Firms <sup>3</sup>	Univ and Colleges Excluding FFRDCs <sup>4</sup>	FFRDCs Admin by Univ and Colleges <sup>5</sup>	Nonprofit Insts Excluding FFRDCs <sup>6</sup>	FFRDCs Admin by Nonprofit Insts <sup>7</sup>	State and Local Govern-ments <sup>8</sup>
Missouri								
Montana								
Nebraska								
Nevada								
New Hampshire								
New Jersey								
New Mexico								
New York								
North Carolina								
North Dakota								
Ohio								
Oklahoma								
Oregon								
Pennsylvania								
Rhode Island								
South Carolina								
South Dakota								
Tennessee								
Texas								
Utah								
Vermont								
Virginia								
Washington								
West Virginia								
Wisconsin								
Wyoming								
Offices abroad								
Puerto Rico								
Other areas								
Undistributed								
TOTAL								

Key: FFRDCs = Federally funded research and development centers.

"Other areas" includes U.S. territories other than Puerto Rico.

"Offices abroad" includes R&D performed or administered in foreign countries by the U.S. government.



“Undistributed” includes Department of Defense obligations for which location of performance cannot be reported.

Footnotes:

- 1 Column total should equal total R&D for Federal Intramural, as reported in Table VI.
- 2 Column total should equal total R&D for Businesses Excluding FFRDCs, as reported in Table VI.
- 3 Column total should equal total R&D for FFRDCs Admin by Industrial Firms, as reported in Table VI.
- 4 Column total should equal total R&D for Universities and Colleges Excluding FFRDCs, as reported in Table VI.
- 5 Column total should equal total R&D for FFRDCs Admin by Universities and Colleges, as reported in Table VI.
- 6 Column total should equal total R&D for Nonprofit Institutions Excluding FFRDCs, as reported in Table VI.
- 7 Column total should equal total R&D for FFRDCs Admin by Nonprofit Institutions, as reported in Table VI.
- 8 Column total should equal total R&D for State and Local Governments, as reported in Table VI.



### Table B - R&D Plant Obligations by State and Performer: FY 2015

Agency Code:

Agency Name:

NOTE: Please report actual dollars for all amounts.

State	Federal Intra-mural <sup>1</sup>	Businesses Excluding FFRDCs <sup>2</sup>	FFRDCs Admin by Industrial Firms <sup>3</sup>	Univ and Colleges Excluding FFRDCs <sup>4</sup>	FFRDCs Admin by Univ and Colleges <sup>5</sup>	Nonprofit Insts Excluding FFRDCs <sup>6</sup>	FFRDCs Admin by Nonprofit Insts <sup>7</sup>	State and Local Governments <sup>8</sup>
Alabama								
Alaska								
Arizona								
Arkansas								
California								
Colorado								
Connecticut								
Delaware								
District of Columbia								
Florida								
Georgia								
Hawaii								
Idaho								
Illinois								
Indiana								
Iowa								
Kansas								
Kentucky								
Louisiana								
Maine								
Maryland								
Massachusetts								
Michigan								
Minnesota								
Mississippi								
Missouri								
Montana								
Nebraska								
Nevada								
New Hampshire								





State	Federal Intra-mural <sup>1</sup>	Businesses Excluding FFRDCs <sup>2</sup>	FFRDCs Admin by Industrial Firms <sup>3</sup>	Univ and Colleges Excluding FFRDCs <sup>4</sup>	FFRDCs Admin by Univ and Colleges <sup>5</sup>	Nonprofit Insts Excluding FFRDCs <sup>6</sup>	FFRDCs Admin by Nonprofit Insts <sup>7</sup>	State and Local Govern-ments <sup>8</sup>
New Jersey								
New Mexico								
New York								
North Carolina								
North Dakota								
Ohio								
Oklahoma								
Oregon								
Pennsylvania								
Rhode Island								
South Carolina								
South Dakota								
Tennessee								
Texas								
Utah								
Vermont								
Virginia								
Washington								
West Virginia								
Wisconsin								
Wyoming								
Offices abroad								
Puerto Rico								
Other areas								
TOTAL (Read Only)								

Please use the space below to add explanations for data reported in this table.

Key: FFRDCs = Federally funded research and development centers.

"Other areas" includes U.S. territories other than Puerto Rico.

"Offices abroad" includes R&D performed or administered in foreign countries by the U.S. government.



Footnotes:

- 1 Column total should equal Federal Intramural total for FY 2015, as reported in Table XI.
- 2 Column total should equal Businesses Excl FFRDCs total for FY 2015, as reported in Table XI.
- 3 Column total should equal FFRDCs Admin by Industrial Firms total for FY 2015, as reported in Table XI.
- 4 Column total should equal Universities and Colleges Excl FFRDCs total for FY 2015, as reported in Table XI.
- 5 Column total should equal FFRDCs Admin by Universities and Colleges total for FY 2015, as reported in Table XI.
- 6 Column total should equal Nonprofit Institutions Excl FFRDCs total for FY 2015, as reported in Table XI.
- 7 Column total should equal FFRDCs Admin by Nonprofit Institutions total for FY 2015, as reported in Table XI.
- 8 Column total should equal State and Local Governments total for FY 2015, as reported in Table XI.



**Table C - Obligations for Basic, Applied, and Total Research Performed at Universities and Colleges (excl. FFRDCs), by Detailed Field of Science and Engineering: FY 2015**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

Field of Science and Engineering	Basic Research	Applied Research	Total Research <sup>1</sup> (Read Only)
	FY 2015	FY 2015	FY 2015
Computer Sciences and Mathematics			
Computer Sciences			
Mathematics			
Other Computer Sciences and Mathematics			
Total Computer Sciences and Mathematics (Read Only)			
Engineering			
Aeronautical Engineering			
Astronautical Engineering			
Chemical Engineering			
Civil Engineering			
Electrical Engineering			
Mechanical Engineering			
Metallurgy and Materials Engineering			
Other Engineering			
Total Engineering (Read Only)			
Environmental Sciences			
Atmospheric Sciences			
Geological Sciences			
Oceanography			
Other Environmental Sciences			
Total Environmental Sciences (Read Only)			
Life Sciences			
Agricultural Sciences			
Biological Sciences (excluding Environmental)			
Environmental Biology			



Field of Science and Engineering	Basic Research	Applied Research	Total Research <sup>1</sup> (Read Only)
	FY 2015	FY 2015	FY 2015
Medical Sciences			
Other Life Sciences			
Total Life Sciences (Read Only)			
Physical Sciences			
Astronomy			
Chemistry			
Physics			
Other Physical Sciences			
Total Physical Sciences (Read Only)			
Psychology			
Biological Aspects			
Social Aspects			
Other Psychological Sciences			
Total Psychology (Read Only)			
Social Sciences			
Anthropology			
Economics			
Political Science			
Sociology			
Other Social Sciences			
Total Social Sciences (Read Only)			
Other Sciences not elsewhere classified			
TOTAL All Fields <sup>2</sup> (Read Only)			

Please use the space below to add explanations for data reported in this table.

Key: FFRDCs = Federally funded research and development centers.

Footnotes:	
1	Basic Research + Applied Research = Total Research.
2	Totals should equal totals for basic and applied research in Univ. and Colleges Excl FFRDCs in Table VI.



**Table D - Obligations for Basic, Applied, and Total Research Performed at Universities and Colleges (excl. FFRDCs), by Field of Science and Engineering: FY 2016**

**Agency Code:**  
**Agency Name:**

NOTE: Please report actual dollars for all amounts.

Field of Science and Engineering	Basic Research	Applied Research	Total Research <sup>1</sup> (Read Only)
	FY 2016	FY 2016	FY 2016
Computer Sciences and Mathematics			
Engineering			
Environmental Sciences			
Life Sciences			
Physical Sciences			
Psychology			
Social Sciences			
Other Sciences not elsewhere classified			
TOTAL All Fields <sup>2</sup> (Read Only)			

Please use the space below to add explanations for data reported in this table.

Key: FFRDCs = Federally funded research and development centers.

Footnotes:	
1	Basic Research + Applied Research = Total Research.
2	Totals should equal totals for basic research and applied research in Univ. and Colleges Excl FFRDCs in Table VII.



**Table E - Obligations for Basic, Applied, and Total Research Performed at Universities and Colleges (excl. FFRDCs), by Field of Science and Engineering: FY 2017**

**Agency Code:**

**Agency Name:**

NOTE: Please report actual dollars for all amounts.

Field of Science and Engineering	Basic Research	Applied Research	Total Research <sup>1</sup> (Read Only)
	FY 2017	FY 2017	FY 2017
Computer Sciences and Mathematics			
Engineering			
Environmental Sciences			
Life Sciences			
Physical Sciences			
Psychology			
Social Sciences			
Other Sciences not elsewhere classified			
TOTAL All Fields <sup>2</sup> (Read Only)			

Please use the space below to add explanations for data reported in this table.

Key: FFRDCs = Federally funded research and development centers.

Footnotes:	
1	Basic Research + Applied Research = Total Research.
2	Totals should equal totals for basic and applied research in Univ. and Colleges Excl FFRDCs in Table VIII.