

FORM APPROVED  
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**NATIONAL SCIENCE FOUNDATION**  
ALEXANDRIA, VA 22314

**HIGHER EDUCATION RESEARCH AND DEVELOPMENT SURVEY  
FY 2023**

**Please submit your survey data by January 31, 2024.**

Your participation in this survey provides important information on the national level of R&D activity. The National Science Foundation (NSF) is authorized to collect this information under the National Science Foundation Act of 1950, as amended. Your institution's response is entirely voluntary.

Response to this survey is estimated to require 64 hours. If you wish to comment on the time required to complete this survey, please contact Suzanne H. Plimpton of NSF at (703) 292-7556, or e-mail [splimpto@nsf.gov](mailto:splimpto@nsf.gov).

The Web address for entering your data:

<http://www.herdsurvey.org/>

Or send completed form to [Support@HERDSurvey.org](mailto:Support@HERDSurvey.org)

**Questions?**

Technical support:

[Support@HERDSurvey.org](mailto:Support@HERDSurvey.org)  
(866) 936-9376

General survey questions:

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(703) 292-4590

**Thank you for your participation.**

## What's New for FY 2023

### Changes to Questions

- **Question 1** instructions were updated to clarify that:
  - Funds coming through your institution's 501(c)3 should be reported based on the original funding source. For example, a grant sponsored by a business coming through your research foundation should be reported in Business (row c), a gift from a donor restricted to research should be reported in All Other Sources (row f), and funding from unrestricted gifts should be reported as institutionally financed research (row e1).
  - Institutionally financed expenditures should not be based on estimated research time. Time or expenditures should be separately accounted for in financial or audited effort reporting records.
- **Question 2** now specifies that only expenditures where the original funding source was foreign should be included.

# Survey Definitions and Instructions

This survey collects data on research and development (R&D) activities at higher education institutions. Please report R&D activities and expenditures for your institution's **2023** fiscal year.

## Fiscal Year (FY)

Please report data for your institution's 2023 fiscal year.

## Research and Development (R&D)

R&D activity is creative and systematic work undertaken in order to increase the stock of knowledge — including knowledge of humankind, culture, and society — and to devise new applications of available knowledge. R&D covers three activities defined below — basic research, applied research, and experimental development.

- **Basic research** is experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.
- **Applied research** is original investigation undertaken in order to acquire new knowledge. It is directed primarily towards a specific, practical aim or objective.
- **Experimental development** is systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed to producing new products or processes or to improving existing products or processes.

## R&D Expenditures

Include all expenditures for R&D activities from your institution's current operating funds that are separately accounted for. For purposes of this survey, R&D includes expenditures for organized research as defined by 2 CFR Part 200 Appendix III and expenditures from funds designated for research.

| R&D <i>includes</i> :   | R&D does <i>not</i> include:   |
|---|--|
| <ul style="list-style-type: none"> <li>• Sponsored research (federal and nonfederal)</li> <li>• University research (institutional funds that are separately budgeted for individual R&amp;D projects)</li> <li>• Startup, bridge, or seed funding provided to researchers within your institution</li> <li>• Other departmental funds designated for research</li> <li>• Recovered and unrecovered indirect costs (see definitions in Question 1)</li> <li>• Equipment purchased from R&amp;D project accounts</li> <li>• R&amp;D funds passed through to a subrecipient organization, educational or other</li> <li>• Clinical trials, Phases I, II, or III (see definition in Question 5)</li> <li>• Research training grants funding work on organized research projects</li> <li>• Tuition remission provided to students working on research</li> </ul> | <ul style="list-style-type: none"> <li>• Public service grants or outreach programs</li> <li>• Curriculum development (unless included as part of an overall research project)</li> <li>• R&amp;D conducted by university faculty or staff at outside institutions that is not accounted for in your financial records</li> <li>• Estimates of the proportion of time budgeted for instruction that is spent on research</li> <li>• Capital projects (i.e., construction or renovation of research facilities)</li> <li>• Non-research training grants</li> <li>• Unrecovered indirect costs that exceed your institution's federally negotiated Facilities and Administrative (F&amp;A) rate</li> </ul> |

## Reporting Units

Please **include** these components of your institution:

- All units of your institution included in or with your financial statements, such as:
  - Agricultural experiment stations
  - Branch campuses
  - Medical schools
  - Hospitals or clinics
  - Research centers and facilities
  - A university 501(c)3 foundation

Please do **not** include:

- Federally Funded R&D Centers (FFRDCs). This information is collected separately. See the list of FFRDCs: <http://www.nsf.gov/statistics/ffrdc/>.
- Other organizations or institutions, such as teaching hospitals or research institutes, with which your institution has an affiliation or relationship, but which are **not** components of your institution.
- Other campuses headed by their own president, chancellor, or equivalent within your university system. Each campus is asked to respond separately.

**Question 1. How much of your total expenditures for research and development (R&D) came from the following sources in FY 2023? (See definition of R&D on the previous page.)**

- In rows a, b, c, d, and f: Include both **direct** and **recovered indirect costs** (reimbursement of F&A costs from external sponsors).
- Report the **original source** of funds, when possible.
- Funds coming through your institution's 501(c)3 should be reported based on the original funding source (e.g., restricted gifts in row f; unrestricted gifts in row e1).
- Include **all** fields of R&D (e.g., sciences, engineering, humanities, education, law, arts). See full listing in Question 9.

**Source of funds**

**R&D expenditures**  
(Dollars in thousands)  
(for example, report \$25,342 as \$25)

**a. U.S. federal government**

Any agency of the United States government.

Include federal funds passed through from another institution. Funds from FFRDCs should be treated as direct federal funding.

\$ 108724

**b. State and local government**

Any state, county, municipality, or other local government entity in the United States, including state health agencies.

Include state funds that support R&D at agricultural and other experiment stations. *Public institutions* should report state appropriations restricted for R&D activities here rather than in row e, Institutional funds.

\$ 4464

**c. Business**

Domestic or foreign for-profit organizations. Report funds from a company's nonprofit foundation in row d.

\$ 1727

**d. Nonprofit organizations**

Domestic or foreign nonprofit foundations and organizations, except universities and colleges. Funds from other universities and colleges should be reported in row f.

\$ 8475

**e. Institutional funds**

**1. Institutionally financed research**

Separately accounted for R&D funded by your institution. Do **not** include *estimated* research time. Exclude institution research administration and support (e.g., office of sponsored programs) or other indirect costs.

\$ 28820  
(Confidential<sup>1</sup>)

**2. Cost sharing**

Include committed cost sharing other than unrecovered indirect costs.

\$ 5768  
(Confidential<sup>1</sup>)

**3. Unrecovered indirect costs**

Calculate for externally funded R&D only (preferably on a project-specific basis) using the appropriate cost rate—on-campus, off-campus, etc.

- First, multiply the *negotiated* rate by the corresponding base.
- Second, subtract recovered indirect costs.

\$ 8808  
(Confidential<sup>1</sup>)

**4. Total institutional funds<sup>2</sup>**

\$ 43396

**f. All other sources**

Other sources not reported above, such as funds from foreign governments, foreign or U.S. universities, and gifts designated by the donors for research.

\$ 2797

**g. Total<sup>2</sup>**

\$ 169583

<sup>1</sup> Information from confidential items is not published or released for individual institutions; only aggregate totals will appear in publications. In accordance with the National Science Foundation Act of 1950, as amended, and other applicable federal laws, your responses will not be disclosed in identifiable form to anyone other than agency employees or authorized persons. Per the Federal Cybersecurity Enhancement Act of 2015, your data are protected from cybersecurity risks through screening of the federal information systems that transmit your data.

<sup>2</sup> Totals for rows e4 and g are automatically generated on the Web survey.

**Question 1.1. Did you include the following types of funding in your responses to Question 1, row e1?**

**Included**

**a. Competitively awarded internal grants for research**

Expenditures for organized research projects, involving a proposal or statement of work with expected research outcomes.



**b. Startup packages/bridge funding/seed funding**

Expenditures from funds provided to faculty members to begin or continue their research while seeking external sponsors.



**c. Other departmental funds designated for research**

Expenditures for research from other departmental or central accounts which do not match the descriptions provided in rows a or b.



**d. Tuition assistance for student research personnel**

University tuition assistance, waivers, or remission provided to students working on organized research. Please check "Included" even if these funds are reported as part of the expenditures included under rows a, b, or c.



**Question 2. How much of the total R&D expenditures reported in Question 1, row g, originated from the following foreign sources?**

- Expenditures funded by domestic sources that passed through a foreign source should **not** be reported on this question.

| Source of funds   | R&D expenditures<br>(Dollars in thousands) |
|---|--|
| <b>a. Foreign government</b><br>All levels of foreign government, including national, regional, municipality, or other local government.  | \$ <u>0</u>                                |
| <b>b. Business</b><br>Foreign for-profit organizations. Projects sponsored by a U.S. location of a foreign company are <b>not</b> considered foreign. Report funds from a company's nonprofit foundation in row c.  | \$ <u>839</u>                              |
| <b>c. Nonprofit organizations</b><br>Foreign nonprofit foundations and organizations, except higher education institutions. Funds from foreign universities should be reported in row d.  | \$ <u>778</u>                              |
| <b>d. Higher education</b><br>Foreign colleges and universities and units owned, operated, and controlled by such institutions.   | \$ <u>195</u>                              |
| <b>e. All other sources</b><br>Include international governmental organizations located in the U.S., such as the United Nations, the World Bank, and the International Monetary Fund and all other entities sending funds to the U.S. from a location outside the U.S. and its territories. | \$ <u>0</u>                                |
| <b>f. Total<sup>1</sup></b>   | \$ <u>1812</u>                             |

<sup>1</sup> The column total is automatically generated on the Web survey.

**Question 3. Of the total R&D expenditures that were externally funded (all sources other than the institutional funds reported in Question 1, row e4), how much was received under each of the following types of agreements?**

|   | R&D expenditures<br>(Dollars in thousands) |
|---|--|
| <b>a. Contracts</b> (including direct or prime contracts and subcontracts)<br>Contracts are legal commitments in which a good or service is provided by your institution that benefits the sponsor. The sponsor specifies the deliverables and gains the rights to results. | \$ <u>24914</u>                            |
| <b>b. Grants, reimbursements, and all other agreements</b><br>Include all other agreements in which payments are received but no good or service other than periodic reporting is required in exchange.   | \$ <u>101273</u>                           |
| <b>c. Total<sup>1</sup></b><br>(Total should match Question 1, row g minus Question 1, row e4)  | \$ <u>126187</u>                           |

<sup>1</sup> The column total is automatically generated on the Web survey.

**Question 4.**

**A. Did your institution have a medical school (that is, a school that awards the MD or DO degree) in FY 2023?**

Yes  → Go to Question 4B.  
 No  → Go to Question 5.

**B. Of the total R&D expenditures reported in Question 1, row g, how much was expended for R&D projects in your medical school?**

Include projects that are assigned to the medical school or to research centers that are organizationally part of the medical school.

**R&D expenditures  
(Dollars in thousands)**

**Total R&D expenditures in the university's medical school**

\$ 42349

**Question 5.**

**A. Did your institution conduct any clinical trials in FY 2023?**

Yes  → Go to Question 5B.  
 No  → Go to Question 6.

**Clinical trials** are research studies designed to answer specific questions about the effects of drugs, vaccines, medical devices, tests, treatments, and other therapies for patients. Clinical trials are used to determine safety and effectiveness.

For reference, the National Institutes of Health (NIH) categorizes human clinical trials into the following four phases.

Please **include**:

- Phase I uses a small group of human patients (20–80) to evaluate safety and identify side effects.
- Phase II uses a larger group (100–300) to test effectiveness and further evaluate safety.
- Phase III uses a large group (1,000–3,000) to confirm effectiveness, monitor side effects, compare to commonly used treatments, and collect safety information.

Please **exclude**:

- Phase IV is a post-market study that collects more information on risks, benefits, and optimal use.

**B. Of the total R&D expenditures reported in Question 1, row g, how much was expended for Phase I, Phase II, and Phase III clinical trials with human patients?**

**R&D expenditures  
(Dollars in thousands)**

|                              | (1)<br>Federal | (2)<br>Nonfederal | (3)<br>Total <sup>1</sup> |
|------------------------------|----------------|-------------------|---------------------------|
| <b>Human clinical trials</b> | \$ <u>147</u>  | \$ <u>593</u>     | \$ <u>740</u>             |
| Trials with human patients   |                |                   |                           |

<sup>1</sup> The row total is automatically generated on the Web survey.



**Question 6. What amounts of your FY 2023 R&D expenditures were for basic research, applied research, and experimental development?**

- If possible, these categories defining the type of R&D should be coded at the individual project level by the principal investigator. Estimates are acceptable if necessary.
- See the table below this question for examples.

**R&D expenditures  
(Dollars in thousands)**

|  | (1)<br>Federal | (2)<br>Nonfederal | (3)<br>Total <sup>1</sup> |
|--|----------------|-------------------|---------------------------|
| <b>a. Basic research</b><br>Experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.   | \$ 107143      | \$ 58024          | \$ 165167                 |
| <b>b. Applied research</b><br>Original investigation undertaken in order to acquire new knowledge. It is directed primarily towards a specific, practical aim or objective.  | \$ 1439        | \$ 2010           | \$ 3449                   |
| <b>c. Experimental development</b><br>Systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed to producing new products or processes or to improving existing products or processes. | \$ 142         | \$ 825            | \$ 967                    |
| <b>d. Total<sup>1</sup></b><br>Column 1 total should match Question 1, row a.<br>Column 3 total should match Question 1, row g.  | \$ 108724      | \$ 60859          | \$ 169583                 |

<sup>1</sup> Row and column totals are automatically generated on the Web survey.

| <b>Examples</b>   |  |   |
|---|--|---|
| <b>Basic research</b>   | <b>Applied research</b>  | <b>Experimental development</b>   |
| A researcher is studying the properties of human blood to determine what affects coagulation.   | A researcher is conducting research on how a new chicken pox vaccine affects blood coagulation.  | A researcher is conducting clinical trials to test a newly developed chicken pox vaccine for young children.  |
| A researcher is studying the properties of molecules under various heat and cold conditions.  | A researcher is investigating the properties of particular substances under various heat and cold conditions with the objective of finding longer-lasting components for highway pavement. | A researcher is working with state transportation officials to conduct tests of a newly developed highway pavement under various types of heat and cold conditions. |
| A researcher is investigating the effect of different types of manipulatives on the way first graders learn mathematical strategy by changing manipulatives and then measuring what students have learned through standardized instruments. | A researcher is studying the implementation of a specific math curriculum to determine what teachers needed to know to implement the curriculum successfully.                              | A researcher is developing and testing software and support tools, based on fieldwork, to improve mathematics cognition for student special education.              |

**Question 7. How much of your R&D expenditures reported in Question 1 did your institution receive as a subrecipient?**

- The **subrecipient** for an award carries out the work but receives the funds from a pass-through entity rather than directly from the original funding source. Subrecipients tend to be the co-authors of publications, writers of technical reports discussing findings, inventors, etc.
- Do **not** include contractor or vendor relationships. A contractor or vendor receives payment for goods and services provided. See 2 CFR Part 200 Subpart D Section 330.
- Please report the original source of funds in columns (1) and (2) and the pass-through source in rows a–d. **Examples:**
  - Your university receives federal funds from another university as a subaward (row a, column 1).
  - Your university receives federal funds from a company as a subaward (row b, column 1).
- Funds received directly from an FFRDC should be treated as direct federal funding and not included on this question.

| Entity passing funds to your institution   | Originating source of R&D expenditures<br>(Dollars in thousands) |                   |                           |
|--|--|-------------------|---------------------------|
|  | (1)<br>Federal   | (2)<br>Nonfederal | (3)<br>Total <sup>1</sup> |
| <b>a. U.S. higher education institutions</b><br>Colleges and universities and units owned, operated, and controlled by such institutions | \$ 9161  | \$ 1320           | \$ 10481                  |
| <b>b. Businesses</b><br>For-profit organizations   | \$ 5322  | \$ 39             | \$ 5361                   |
| <b>c. Nonprofit organizations</b><br>Nonprofit foundations and organizations   | \$ 1918  | \$ 675            | \$ 2593                   |
| <b>d. Other</b><br>State and local governments, foreign institutions including foreign universities/colleges, and others                 | \$ 1280  | \$ 351            | \$ 1631                   |
| <b>e. Total<sup>1</sup></b>  | \$ 17681   | \$ 2385           | \$ 20066                  |

<sup>1</sup> Row and column totals are automatically generated on the Web survey.

**Question 8. How much of the R&D expenditures reported in Question 1 did your institution pass through to subrecipients?**

- Do **not** include contractor or vendor relationships. A contractor or vendor receives payment for goods and services provided. See 2 CFR Part 200 Subpart D Section 330.
- Please report the original source of funds in columns (1) and (2) and the entity receiving the funds in rows a–d. **Examples:**
  - Your institution passed through federal funds to another university (row a, column 1).
  - Your institution passed through funds from a company to another university (row a, column 2).

**Originating source of R&D expenditures  
(Dollars in thousands)**

| Entity receiving funds from your institution   | (1)<br>Federal | (2)<br>Nonfederal | (3)<br>Total <sup>1</sup> |
|--|----------------|-------------------|---------------------------|
| <b>a. U.S. higher education institutions</b><br>Colleges and universities and units owned, operated, and controlled by such institutions | \$ 15079       | \$ 517            | \$ 15596                  |
| <b>b. Businesses</b><br>For-profit organizations   | \$ 678         | \$ 798            | \$ 1476                   |
| <b>c. Nonprofit organizations</b><br>Nonprofit foundations and organizations   | \$ 2389        | \$ 120            | \$ 2509                   |
| <b>d. Other</b><br>State and local governments, foreign institutions including foreign universities/colleges, and others                 | \$ 1742        | \$ 59             | \$ 1801                   |
| <b>e. Total<sup>1</sup></b>  | \$ 19888       | \$ 1494           | \$ 21382                  |

<sup>1</sup> Row and column totals are automatically generated on the Web survey.

**Question 9A–B. What were your FY 2023 R&D expenditures in the computer and information sciences and engineering funded by the federal agency sources below? (R&D expenditures from nonfederal sources will be reported in Question 11.)**

- Question 9 total (page 18, row K, column h) should match Question 1, row a.
- A list of federal departments, agencies and subagencies is included as a link on the web survey question.
- If an individual project involves more than one of the 40 fields of R&D, please prorate expenditures when possible and report the amount for each field involved.
- For subrecipient funding, report the agency that sponsored the original award.
- Funding from FFRDCs should be reported under the primary sponsoring agency for that center.

**R&D expenditures from federal sources<sup>1</sup>**  
(Dollars in thousands)

| R&D Fields<br>(Examples listed below)                     | (a)<br>USDA | (b)<br>DoD | (c)<br>Energy | (d)<br>HHS,<br>includes NIH | (e)<br>NASA | (f)<br>NSF | (g)<br>Other | (h)<br>Total <sup>2</sup> |
|---|-------------|------------|---------------|-----------------------------|-------------|------------|--------------|---------------------------|
| <b>A. Computer and Information Sciences</b>               | \$ 0        | \$ 1226    | \$ 68         | \$ 520                      | \$ 0        | \$ 2876    | \$ 574       | \$ 5264                   |
| <b>B. Engineering</b>                                     |             |            |               |                             |             |            |              |                           |
| 1. Aerospace, Aeronautical, and Astronautical Engineering | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 2. Bioengineering and Biomedical Engineering              | \$ 97       | \$ 685     | \$ 0          | \$ 4713                     | \$ 0        | \$ 613     | \$ 324       | \$ 6432                   |
| 3. Chemical Engineering                                   | \$ 35       | \$ 1056    | \$ 103        | \$ 140                      | \$ 13       | \$ 2027    | \$ 244       | \$ 3618                   |
| 4. Civil Engineering                                      | \$ 0        | \$ 861     | \$ 656        | \$ 0                        | \$ 28       | \$ 731     | \$ 925       | \$ 3201                   |
| 5. Electrical, Electronic, and Communications Engineering | \$ 0        | \$ 1004    | \$ 170        | \$ 192                      | \$ 0        | \$ 1121    | \$ 926       | \$ 3413                   |
| 6. Industrial and Manufacturing Engineering               | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 7. Mechanical Engineering                                 | \$ 0        | \$ 5314    | \$ 0          | \$ 75                       | \$ 12       | \$ 1613    | \$ 348       | \$ 7362                   |
| 8. Metallurgical and Materials Engineering                | \$ 0        | \$ 3234    | \$ 674        | \$ 92                       | \$ 1        | \$ 1638    | \$ 519       | \$ 6158                   |
| 9. Other Engineering                                      | \$ 71       | \$ 1       | \$ 0          | \$ 0                        | \$ 374      | \$ 499     | \$ 235       | \$ 1180                   |
| 10. Total <sup>2</sup>                                    | \$ 203      | \$ 12155   | \$ 1603       | \$ 5212                     | \$ 428      | \$ 8242    | \$ 3521      | \$ 31364                  |

<sup>1</sup> **Key:** USDA, Department of Agriculture; DoD, Department of Defense; Energy, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NIH, National Institutes of Health; NSF, National Science Foundation. "Other" includes all other federal agencies.

<sup>2</sup> Row and column totals are automatically generated on the Web survey.

## Examples of Disciplines: Computer and Information Sciences and Engineering Fields of R&D

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### A. Computer and Information Sciences

Artificial intelligence  
Computer and information  
technology administration and  
management  
Computer science

Computer software and media  
applications  
Computer systems analysis  
Computer systems networking  
and telecommunications

Data processing  
Information sciences, studies  
Information technology

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### B. Engineering

#### 1. Aerospace, Aeronautical, and Astronautical Engineering

Aerodynamics  
Aerospace engineering  
Space technology

#### 2. Bioengineering and Biomedical Engineering

Biological and biosystems  
engineering  
Biomaterials engineering  
Biomedical technology  
Medical engineering

#### 3. Chemical Engineering

Biochemical engineering  
Chemical and biomolecular  
engineering  
Engineering chemistry  
Paper science  
Petroleum refining process  
Polymer, plastics engineering

#### 4. Civil Engineering

Architectural engineering  
Construction engineering  
Engineering management,  
administration  
Environmental, environmental  
health engineering  
Geotechnical and  
geoenvironmental engineering  
Sanitary engineering  
Structural engineering  
Surveying engineering  
Transportation and highway  
engineering  
Water resources engineering

#### 5. Electrical, Electronic, and Communications Engineering

Communications engineering  
Computer engineering  
Computer hardware  
engineering  
Computer software engineering  
Electrical and electronics  
engineering  
Laser and optical engineering  
Power  
Telecommunications  
engineering

#### 6. Industrial and Manufacturing Engineering

Industrial engineering  
Manufacturing engineering  
Operations research  
Systems engineering

#### 7. Mechanical Engineering

Electromechanical engineering  
Mechatronics, robotics, and  
automation engineering

#### 8. Metallurgical and Materials Engineering

Ceramic sciences and  
engineering  
Geophysical, geological  
engineering  
Materials engineering  
Metallurgical engineering  
Mining and mineral engineering  
Textile sciences and  
engineering  
Welding

#### 9. Other Engineering

Agricultural engineering  
Engineering design  
Engineering mechanics,  
physics, and science  
Engineering physics  
Engineering science  
Forest engineering  
Nanotechnology  
Naval architecture and marine  
engineering  
Nuclear engineering  
Ocean engineering  
Petroleum engineering

Other engineering fields that  
cannot be classified using the  
fields listed above

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**Question 9C. What were your FY 2023 R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences funded by the federal agency sources below? (R&D expenditures from nonfederal sources will be reported in Question 11.)**

**R&D expenditures from federal sources<sup>1</sup>**  
(Dollars in thousands)

| R&D Fields<br>(Examples listed below)                           | (a)<br>USDA | (b)<br>DoD | (c)<br>Energy | (d)<br>HHS,<br>includes NIH | (e)<br>NASA | (f)<br>NSF | (g)<br>Other | (h)<br>Total <sup>2</sup> |
|---|-------------|------------|---------------|-----------------------------|-------------|------------|--------------|---------------------------|
| <b>C. Geosciences, Atmospheric Sciences, and Ocean Sciences</b> |             |            |               |                             |             |            |              |                           |
| 1. Atmospheric Science and Meteorology                          | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 2. Geological and Earth Sciences                                | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 3. Ocean Sciences and Marine Sciences                           | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences  | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 5. <b>Total<sup>2</sup></b>                                     | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |

<sup>1</sup> **Key:** USDA, Department of Agriculture; DoD, Department of Defense; Energy, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NIH, National Institutes of Health; NSF, National Science Foundation. "Other" includes all other federal agencies.

<sup>2</sup> Row and column totals are automatically generated on the Web survey.

**Examples of Disciplines: Geosciences, Atmospheric Sciences, and Ocean Sciences Fields of R&D**

**C. Geosciences, Atmospheric Sciences, and Ocean Sciences**

**1. Atmospheric Science and Meteorology**

Aeronomy  
Atmospheric chemistry and climatology  
Atmospheric physics and dynamics  
Extraterrestrial atmospheres  
Meteorology  
Solar  
Weather modification

**2. Geological and Earth Sciences**

Earth and planetary sciences  
Geochemistry  
Geodesy and gravity  
Geology  
Geomagnetism  
Geophysics and seismology  
Hydrology and water resources  
Minerology and petrology  
Paleomagnetism  
Paleontology  
Physical geography  
Stratigraphy and sedimentation  
Surveying

**3. Ocean Sciences and Marine Sciences**

Biological oceanography  
Geological oceanography  
Marine biology  
Marine oceanography  
Marine sciences  
Oceanography, chemical and physical

**4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences**

Other fields that cannot be classified using the fields listed above

**Question 9D. What were your FY 2023 R&D expenditures in the life sciences funded by the federal agency sources below? (R&D expenditures from nonfederal sources will be reported in Question 11.)**

**R&D expenditures from federal sources<sup>1</sup>**  
(Dollars in thousands)

| R&D Fields<br>(Examples listed below) | (a)<br>USDA | (b)<br>DoD | (c)<br>Energy | (d)<br>HHS,<br>includes NIH | (e)<br>NASA | (f)<br>NSF | (g)<br>Other | (h)<br>Total <sup>2</sup> |
|---------------------------------------|-------------|------------|---------------|-----------------------------|-------------|------------|--------------|---------------------------|
| <b>D. Life Sciences</b>               |             |            |               |                             |             |            |              |                           |
| 1. Agricultural Sciences              | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 2. Biological and Biomedical Sciences | \$ 0        | \$ 1040    | \$ 0          | \$ 27176                    | \$ 0        | \$ 1130    | \$ 162       | \$ 29508                  |
| 3. Health Sciences                    | \$ 12       | \$ 247     | \$ 0          | \$ 26817                    | \$ 0        | \$ 127     | \$ 1937      | \$ 29140                  |
| 4. Natural Resources and Conservation | \$ 0        | \$ 117     | \$ 0          | \$ 0                        | \$ 0        | \$ 23      | \$ 115       | \$ 255                    |
| 5. Other Life Sciences                | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 6. Total <sup>2</sup>                 | \$ 12       | \$ 1404    | \$ 0          | \$ 53993                    | \$ 0        | \$ 1280    | \$ 2214      | \$ 58903                  |

<sup>1</sup> **Key:** USDA, Department of Agriculture; DoD, Department of Defense; Energy, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NIH, National Institutes of Health; NSF, National Science Foundation. "Other" includes all other federal agencies.

<sup>2</sup> Row and column totals are automatically generated on the Web survey.

**Examples of Disciplines: Life Sciences Fields of R&D**

**D. Life Sciences**

**1. Agricultural Sciences**

Agricultural business and management  
Agricultural chemistry  
Agricultural engineering—report in Engineering  
Agricultural production operations  
Animal sciences  
Applied horticulture and horticultural business services  
Aquaculture  
Food science and technology  
International agriculture  
Plant sciences  
Soil sciences  
Veterinary biomedical and clinical sciences  
Veterinary medicine  
Wood science

**2. Biological and Biomedical Sciences**

Allergies and immunology  
Biochemistry, biophysics, and molecular biology  
Biogeography  
Biology and biomedical sciences, general

Biomathematics, bioinformatics, and computational biology  
Biotechnology  
Botany and plant biology  
Cell, cellular biology, and anatomical sciences  
Epidemiology, ecology and population biology  
Food, nutrition, and wellness studies  
Genetics  
Microbiological sciences and immunology  
Molecular medicine  
Neurobiology and neuroscience  
Pharmacology and toxicology  
Physiology, pathology and related sciences  
Zoology, animal biology

**3. Health Sciences**

Advanced, graduate dentistry and oral sciences  
Allied health and medical assisting services  
Bioethics, medical ethics  
Clinical medicine research  
Clinical/medical laboratory science/research and allied professions

Communication disorders sciences and services  
Dentistry  
Dietetics and clinical nutrition services  
Health and medical administrative services  
Health, medical preparatory programs  
Gerontology, health sciences  
Kinesiology and exercise science  
Medical clinical science, graduate medical studies  
Medical illustration and informatics  
Medicine  
Mental health  
Nursing  
Optometry  
Osteopathic medicine, osteopathy  
Pharmacy, pharmaceutical sciences, and administration  
Podiatric medicine, podiatry  
Public health  
Radiological science

Registered nursing, nursing administration, nursing research and clinical nursing  
Rehabilitation and therapeutic professions  
Zoology

**4. Natural Resources and Conservation**

Fishing and fisheries sciences and management  
Forestry  
Natural resources conservation and research  
Natural resources management and policy  
Renewable natural resources  
Wildlife and wildlands science and management

**5. Other Life Sciences**

Other life sciences that cannot be classified using the fields listed above

**Question 9E–G. What were your FY 2023 R&D expenditures in mathematics and statistics, the physical sciences, and psychology funded by the federal agency sources below? (R&D expenditures from nonfederal sources will be reported in Question 11.)**

**R&D expenditures from federal sources<sup>1</sup>**  
(Dollars in thousands)

| R&D Fields<br>(Examples listed below) | (a)<br>USDA | (b)<br>DoD | (c)<br>Energy | (d)<br>HHS,<br>includes NIH | (e)<br>NASA | (f)<br>NSF | (g)<br>Other | (h)<br>Total <sup>2</sup> |
|---------------------------------------|-------------|------------|---------------|-----------------------------|-------------|------------|--------------|---------------------------|
| <b>E. Mathematics and Statistics</b>  | \$ 0        | \$ 22      | \$ 0          | \$ 0                        | \$ 0        | \$ 445     | \$ 0         | \$ 467                    |
| <b>F. Physical Sciences</b>           |             |            |               |                             |             |            |              |                           |
| 1. Astronomy and Astrophysics         | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 2. Chemistry                          | \$ 0        | \$ 0       | \$ 0          | \$ 95                       | \$ 0        | \$ 323     | \$ 15        | \$ 433                    |
| 3. Materials Science                  | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 4. Physics                            | \$ 0        | \$ 0       | \$ 568        | \$ 2                        | \$ 6        | \$ 606     | \$ 0         | \$ 1182                   |
| 5. Other Physical Sciences            | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 6. Total <sup>2</sup>                 | \$ 0        | \$ 0       | \$ 568        | \$ 97                       | \$ 6        | \$ 929     | \$ 15        | \$ 1615                   |
| <b>G. Psychology</b>                  | \$ 0        | \$ 79      | \$ 0          | \$ 2307                     | \$ 0        | \$ 111     | \$ 209       | \$ 2706                   |

<sup>1</sup> **Key:** USDA, Department of Agriculture; DoD, Department of Defense; Energy, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NIH, National Institutes of Health; NSF, National Science Foundation. "Other" includes all other federal agencies.

<sup>2</sup> Row and column totals are automatically generated on the Web survey.

**Examples of Disciplines: Mathematics and Statistics, Physical Sciences, and Psychology Fields of R&D**

**E. Mathematics and Statistics**

Applied mathematics

Mathematics

Statistics

**F. Physical Sciences**

**1. Astronomy and Astrophysics**

Astronomy  
Astrophysics  
Planetary astronomy and science

**2. Chemistry**

(except Biochemistry—report in Biological and Biomedical Sciences)

Analytical chemistry  
Chemical physics  
Environmental chemistry  
Forensic chemistry  
Inorganic chemistry  
Organic chemistry  
Organo-metallic chemistry  
Physical chemistry  
Polymer chemistry  
Theoretical chemistry

**3. Materials Science**

Materials chemistry  
Materials science

**4. Physics**

Acoustics  
Atomic, molecular physics  
Condensed matter and materials physics  
Elementary particle physics  
Mathematical physics  
Nuclear physics  
Optics, optical sciences  
Plasma, high-temperature physics  
Theoretical physics

**5. Other Physical Sciences**

Other physical sciences that cannot be classified using the fields listed above

**G. Psychology**

Clinical psychology

Counseling and applied psychology

Human development

Research and experimental psychology

Question 9 continues on next page.



**Question 9H–I. What were your FY 2023 R&D expenditures in the social sciences and other sciences funded by the federal agency sources below? (R&D expenditures from nonfederal sources will be reported in Question 11.)**

**R&D expenditures from federal sources<sup>1</sup>**  
(Dollars in thousands)

| R&D Fields<br>(Examples listed below)            | (a)<br>USDA | (b)<br>DoD | (c)<br>Energy | (d)<br>HHS,<br>includes NIH | (e)<br>NASA | (f)<br>NSF | (g)<br>Other | (h)<br>Total <sup>2</sup> |
|--|-------------|------------|---------------|-----------------------------|-------------|------------|--------------|---------------------------|
| <b>H. Social Sciences</b>                        |             |            |               |                             |             |            |              |                           |
| 1. Anthropology                                  | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 2. Economics                                     | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 3. Political Science and Government              | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 4. Sociology, Demography, and Population Studies | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 5. Other Social Sciences                         | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 665     | \$ 0         | \$ 665                    |
| 6. Total <sup>2</sup>                            | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 665     | \$ 0         | \$ 665                    |
| <b>I. Other Sciences</b>                         | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 43      | \$ 0         | \$ 43                     |

<sup>1</sup> **Key:** USDA, Department of Agriculture; DoD, Department of Defense; Energy, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NIH, National Institutes of Health; NSF, National Science Foundation. "Other" includes all other federal agencies.

<sup>2</sup> Row and column totals are automatically generated on the Web survey.

**Examples of Disciplines: Social Sciences and Other Sciences Fields of R&D**

**H. Social Sciences**

**1. Anthropology**

Cultural anthropology  
Medical anthropology  
Physical and biological anthropology

**2. Economics**

Agricultural economics  
Applied economics  
Business development  
Development economics and international development  
Econometrics and quantitative economics  
Industrial economics  
International economics  
Labor economics

Managerial economics  
Natural resource economics  
Public finance and fiscal policy

**3. Political Science and Government**

Comparative government  
Government  
Legal systems  
Political economy  
Political science  
Political theory

**4. Sociology, Demography, and Population Studies**

Comparative and historical sociology  
Complex organizations  
Cultural and social structure  
Demography and population studies  
Group interactions  
Rural sociology  
Social problems and welfare theory  
Sociology

**5. Other Social Sciences**

Archeology  
Area, ethnic, cultural, gender, and group studies  
Cartography  
Criminal science and corrections  
Criminology  
Geography  
Gerontology, social sciences  
History and philosophy of science and technology  
International relations and national security studies  
Linguistics  
Public policy analysis  
Regional studies  
Urban studies, affairs

**I. Other Sciences**

Use this category for R&D that involves at least one S&E field (rows A–H) if it is impossible to report multidisciplinary or interdisciplinary R&D expenditures in specific fields.

**Question 9J–K. What were your FY 2023 R&D expenditures in the non-science and engineering (non-S&E) fields funded by the federal agency sources below? (R&D expenditures from nonfederal sources will be reported in Question 11.)**

**R&D expenditures from federal sources<sup>1</sup>**  
(Dollars in thousands)

| R&D Fields<br>(Examples listed below)                 | (a)<br>USDA | (b)<br>DoD | (c)<br>Energy | (d)<br>HHS,<br>includes NIH | (e)<br>NASA | (f)<br>NSF | (g)<br>Other | (h)<br>Total <sup>2</sup> |
|---|-------------|------------|---------------|-----------------------------|-------------|------------|--------------|---------------------------|
| <b>J. Non-S&amp;E Fields</b>                          |             |            |               |                             |             |            |              |                           |
| 1. Business Management and Business Administration    | \$ 0        | \$ 24      | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 24                     |
| 2. Communication and Communications Technologies      | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 3. Education  | \$ 0        | \$ 0       | \$ 0          | \$ 302                      | \$ 0        | \$ 1787    | \$ 192       | \$ 2281                   |
| 4. Humanities   | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 59      | \$ 191       | \$ 250                    |
| 5. Law  | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 6. Social Work  | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 0       | \$ 0         | \$ 0                      |
| 7. Visual and Performing Arts                         | \$ 0        | \$ 0       | \$ 0          | \$ 0                        | \$ 0        | \$ 20      | \$ 0         | \$ 20                     |
| 8. Other Non-S&E Fields                               | \$ 16       | \$ 98      | \$ 0          | \$ 4424                     | \$ 0        | \$ 418     | \$ 166       | \$ 5122                   |
| 9. Total <sup>2</sup>                                 | \$ 16       | \$ 122     | \$ 0          | \$ 4726                     | \$ 0        | \$ 2284    | \$ 549       | \$ 7697                   |
| <b>K. Total for All Fields of R&amp;D<sup>2</sup></b> | \$ 231      | \$ 15008   | \$ 2239       | \$ 66855                    | \$ 434      | \$ 16875   | \$ 7082      | \$ 108724                 |

**Total for row K, column h should equal Total for Question 1, row a.**

<sup>1</sup> **Key:** USDA, Department of Agriculture; DoD, Department of Defense; Energy, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NIH, National Institutes of Health; NSF, National Science Foundation. "Other" includes all other federal agencies.

<sup>2</sup> Row and column totals are automatically generated on the Web survey.

## Examples of Disciplines: Non-S&E Fields of R&D

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### J. Non-S&E Fields

#### 1. Business Management and Business Administration

Business administration  
Business management  
Business, managerial economics  
Management information systems and services  
Marketing management and research

#### 2. Communication and Communications Technologies

Communication and media studies  
Communications technologies  
Journalism  
Radio, television, and digital communication

#### 3. Education

Education administration and supervision  
Education research  
Teacher education, specific levels and methods  
Teaching fields

#### 4. Humanities

English language and literature, letters  
Foreign languages and literatures  
History  
Humanities, general  
Liberal arts and sciences  
Philosophy and religious studies  
Theology and religious vocations

#### 5. Law

Law  
Legal studies

#### 6. Social Work

(no specific examples)

#### 7. Visual and Performing Arts

Drama, theatre arts and stagecraft  
Film, video, and photographic arts  
Fine and studio arts  
Music

#### 8. Other Non-S&E Fields

Architecture  
City, urban, community and regional planning  
Family, consumer sciences and human sciences  
Landscape architecture  
Library science  
Military technology and applied science  
Parks, sports, recreation, leisure and fitness  
Public administration and public affairs  
Other non-S&E fields that cannot be classified using the fields listed above

Also, use this category for R&D that involves multiple non-S&E fields if it is impossible to report multidisciplinary or interdisciplinary R&D expenditures in specific fields.

**Question 10. Of the amount reported for Other federal sources in Question 9 (row K, column g), which agencies funded this R&D, and how much of the reported amount was from each agency?**

If your institution reported \$0 in Question 9, row K, column g, skip this question and go to Question 11.

- Use rows a–j to list up to 10 agencies that funded the largest R&D expenditures.
- Use row k to report any remaining amount.
- For subrecipient funding in this question, list the sponsor of the original award.
- A list of federal departments, agencies and subagencies is included as a link on the web survey question.

| Federal agencies (list up to 10)  | R&D expenditures<br>(Dollars in thousands) |
|---|--|
| a. <input type="text" value="Department of Transportation (DOT)"/>          | \$ 1684                                    |
| b. <input type="text" value="Federal Emergency Management Agency (FEMA)"/>  | \$ 1076                                    |
| c. <input type="text" value="National Endowment for the Humanities (NEH)"/> | \$ 904                                     |
| d. <input type="text" value="Department of Education (ED)"/>                | \$ 840                                     |
| e. <input type="text" value="Department of Justice (DOJ)"/>                 | \$ 642                                     |
| f. <input type="text" value="Department of Commerce"/>                      | \$ 422                                     |
| g. <input type="text" value="Environmental Protection Agency (EPA)"/>       | \$ 392                                     |
| h. <input type="text" value="Department of Veterans Affairs (VA)"/>         | \$ 310                                     |
| i. <input type="text" value="Department of State (DOS)"/>                   | \$ 258                                     |
| j. <input type="text" value="Department of the Interior"/>                  | \$ 147                                     |
| k. Other agencies included in Question 9, column g, but not listed above    | \$ 407                                     |
| <b>l. Total (should match Question 9, row K, column g)<sup>1</sup></b>      | <b>\$ 7082</b>                             |

<sup>1</sup> The column total is automatically generated on the Web survey.

**Question 11A–B. What were your FY 2023 R&D expenditures in the computer and information sciences and engineering fields funded by the nonfederal sources below?**

- The totals in row K, page 24 should match the corresponding sources in Question 1, rows b–f.
- If an individual project involves more than one of the 40 fields of R&D, please prorate expenditures when possible and report the amount for each field involved.

**R&D expenditures from nonfederal sources  
(Dollars in thousands)**

| <b>R&amp;D Fields</b><br>(See Question 9, p. 13)          | <b>(a)<br/>State and<br/>local<br/>government</b> | <b>(b)<br/>Business</b> | <b>(c)<br/>Nonprofit<br/>organizations</b> | <b>(d)<br/>Institutional<br/>funds</b> | <b>(e)<br/>Other<br/>nonfederal<br/>sources</b> | <b>(f)<br/>Total<sup>1</sup></b> |
|---|---|-------------------------|--|--|---|----------------------------------|
| <b>A. Computer and Information Sciences</b>               | \$ 0  | \$ 0                    | \$ 32                                      | \$ 1288                                | \$ 37   | \$ 1357                          |
| <b>B. Engineering</b>                                     |   |                         |  |  |   |                                  |
| 1. Aerospace, Aeronautical, and Astronautical Engineering | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 2. Bioengineering and Biomedical Engineering              | \$ 60   | \$ 420                  | \$ 492                                     | \$ 2368                                | \$ 27   | \$ 3367                          |
| 3. Chemical Engineering                                   | \$ 12   | \$ 55                   | \$ 119                                     | \$ 819                                 | \$ 31   | \$ 1036                          |
| 4. Civil Engineering                                      | \$ 136  | \$ 152                  | \$ 680                                     | \$ 675                                 | \$ 3  | \$ 1646                          |
| 5. Electrical, Electronic, and Communications Engineering | \$ 0  | \$ 0                    | \$ 21                                      | \$ 388                                 | \$ 89   | \$ 498                           |
| 6. Industrial and Manufacturing Engineering               | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 7. Mechanical Engineering                                 | \$ 67   | \$ 69                   | \$ 38                                      | \$ 1765                                | \$ 0  | \$ 1939                          |
| 8. Metallurgical and Materials Engineering                | \$ 145  | \$ 91                   | \$ 79                                      | \$ 2229                                | \$ 421  | \$ 2965                          |
| 9. Other Engineering                                      | \$ 0  | \$ 0                    | \$ 3                                       | \$ 1184                                | \$ 0  | \$ 1187                          |
| 10. <b>Total<sup>1</sup></b>                              | \$ 420  | \$ 787                  | \$ 1432                                    | \$ 9428                                | \$ 571  | \$ 12638                         |

<sup>1</sup> Row and column totals are automatically generated on the Web survey.

Examples of disciplines for the above fields of R&D are listed on page 13.

**Question 11C–D. What were your FY 2023 R&D expenditures in the R&D fields listed below funded by the nonfederal sources below?**

**R&D expenditures from nonfederal sources  
(Dollars in thousands)**

| <b>R&amp;D Fields</b><br>(See Question 9, pp. 14–15)            | <b>(a)<br/>State and<br/>local<br/>government</b> | <b>(b)<br/>Business</b> | <b>(c)<br/>Nonprofit<br/>organizations</b> | <b>(d)<br/>Institutional<br/>funds</b> | <b>(e)<br/>Other<br/>nonfederal<br/>sources</b> | <b>(f)<br/>Total<sup>1</sup></b> |
|---|---|-------------------------|--|--|---|----------------------------------|
| <b>C. Geosciences, Atmospheric Sciences, and Ocean Sciences</b> |   |                         |  |  |   |                                  |
| 1. Atmospheric Science and Meteorology                          | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 2. Geological and Earth Sciences                                | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 3. Ocean Sciences and Marine Sciences                           | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences  | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 5. <b>Total<sup>1</sup></b>                                     | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| <b>D. Life Sciences</b>   |   |                         |  |  |   |                                  |
| 1. Agricultural Sciences  | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 2. Biological and Biomedical Sciences                           | \$ 1147   | \$ 68                   | \$ 1503                                    | \$ 10748                               | \$ 467  | \$ 13933                         |
| 3. Health Sciences  | \$ 1966   | \$ 737                  | \$ 2862                                    | \$ 12200                               | \$ 1247   | \$ 19012                         |
| 4. Natural Resources and Conservation                           | \$ 481  | \$ 55                   | \$ 949                                     | \$ 883                                 | \$ 16   | \$ 2384                          |
| 5. Other Life Sciences  | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 6. <b>Total<sup>1</sup></b>                                     | \$ 3594   | \$ 860                  | \$ 5314                                    | \$ 23831                               | \$ 1730   | \$ 35329                         |

<sup>1</sup> Row and column totals are automatically generated on the Web survey.

**Examples of disciplines for the above fields of R&D are listed on pages 14–15.**

**Question 11E-I. What were your FY 2023 R&D expenditures in the R&D fields listed below funded by the nonfederal sources below?**

**R&D expenditures from nonfederal sources  
(Dollars in thousands)**

| <b>R&amp;D Fields</b><br>(See Question 9, pp. 16–17) | <b>(a)<br/>State and<br/>local<br/>government</b> | <b>(b)<br/>Business</b> | <b>(c)<br/>Nonprofit<br/>organizations</b> | <b>(d)<br/>Institutional<br/>funds</b> | <b>(e)<br/>Other<br/>nonfederal<br/>sources</b> | <b>(f)<br/>Total<sup>1</sup></b> |
|--|---|-------------------------|--|--|---|----------------------------------|
| <b>E. Mathematics and Statistics</b>                 | \$ 0  | \$ 0                    | \$ 8                                       | \$ 142                                 | \$ 0  | \$ 150                           |
| <b>F. Physical Sciences</b>                          |   |                         |  |  |   |                                  |
| 1. Astronomy and Astrophysics                        | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 2. Chemistry   | \$ 91   | \$ 0                    | \$ 0                                       | \$ 1003                                | \$ 0  | \$ 1094                          |
| 3. Materials Science                                 | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 4. Physics   | \$ 0  | \$ 0                    | \$ 60                                      | \$ 333                                 | \$ 0  | \$ 393                           |
| 5. Other Physical Sciences                           | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 6. <b>Total<sup>1</sup></b>                          | \$ 91   | \$ 0                    | \$ 60                                      | \$ 1336                                | \$ 0  | \$ 1487                          |
| <b>G. Psychology</b>                                 | \$ 33   | \$ 0                    | \$ 473                                     | \$ 840                                 | \$ 284  | \$ 1630                          |
| <b>H. Social Sciences</b>                            |   |                         |  |  |   |                                  |
| 1. Anthropology                                      | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 2. Economics   | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 3. Political Science and<br>Government               | \$ 0  | \$ 0                    | \$ 86                                      | \$ 72                                  | \$ 0  | \$ 158                           |
| 4. Sociology, Demography, and<br>Population Studies  | \$ 0  | \$ 0                    | \$ 0                                       | \$ 51                                  | \$ 0  | \$ 51                            |
| 5. Other Social Sciences                             | \$ 31   | \$ 0                    | \$ 464                                     | \$ 370                                 | \$ 0  | \$ 865                           |
| 6. <b>Total<sup>1</sup></b>                          | \$ 31   | \$ 0                    | \$ 550                                     | \$ 493                                 | \$ 0  | \$ 1074                          |
| <b>I. Other Sciences</b>                             | \$ 69   | \$ 14                   | \$ 269                                     | \$ 1267                                | \$ 0  | \$ 1619                          |

<sup>1</sup> Row and column totals are automatically generated on the Web survey.

Examples of disciplines for the above fields of R&D are listed on pages 16–17.

**Question 11J–K. What were your FY 2023 R&D expenditures in the non-science and engineering (non-S&E) fields funded by the nonfederal sources below?**

**R&D expenditures from nonfederal sources  
(Dollars in thousands)**

| <b>R&amp;D Fields</b><br>(See Question 9, p. 19)      | <b>(a)<br/>State and<br/>local<br/>government</b> | <b>(b)<br/>Business</b> | <b>(c)<br/>Nonprofit<br/>organizations</b> | <b>(d)<br/>Institutional<br/>funds</b> | <b>(e)<br/>Other<br/>nonfederal<br/>sources</b> | <b>(f)<br/>Total<sup>1</sup></b> |
|---|---|-------------------------|--|--|---|----------------------------------|
| <b>J. Non-S&amp;E Fields</b>                          |   |                         |  |  |   |                                  |
| 1. Business Management and Business Administration    | \$ 0  | \$ 10                   | \$ 0                                       | \$ 97                                  | \$ 0  | \$ 107                           |
| 2. Communication and Communications Technologies      | \$ 0  | \$ 0                    | \$ 0                                       | \$ 51                                  | \$ 1  | \$ 52                            |
| 3. Education  | \$ 85   | \$ 41                   | \$ 77                                      | \$ 683                                 | \$ 0  | \$ 886                           |
| 4. Humanities   | \$ 9  | \$ 15                   | \$ 159                                     | \$ 280                                 | \$ 56   | \$ 519                           |
| 5. Law  | \$ 0  | \$ 0                    | \$ 0                                       | \$ 21                                  | \$ 0  | \$ 21                            |
| 6. Social Work  | \$ 0  | \$ 0                    | \$ 0                                       | \$ 0                                   | \$ 0  | \$ 0                             |
| 7. Visual and Performing Arts                         | \$ 30   | \$ 0                    | \$ 28                                      | \$ 314                                 | \$ 5  | \$ 377                           |
| 8. Other Non-S&E Fields                               | \$ 102  | \$ 0                    | \$ 73                                      | \$ 3325                                | \$ 113  | \$ 3613                          |
| 9. <b>Total<sup>1</sup></b>                           | \$ 226  | \$ 66                   | \$ 337                                     | \$ 4771                                | \$ 175  | \$ 5575                          |
| <b>K. Total for All Fields of R&amp;D<sup>1</sup></b> | \$ 4464   | \$ 1727                 | \$ 8475                                    | \$ 43396                               | \$ 2797   | \$ 60859                         |

Totals in row K, columns a–e should match corresponding sources in Question 1, rows b–f.

<sup>1</sup> Row and column totals are automatically generated on the Web survey.

Examples of disciplines for non-S&E fields of R&D are listed on page 19.



**Question 12. Of the total amount of R&D expenditures reported in Question 1, row g, what were the amounts for the following types of costs?**

- Please report only **direct costs** (including cost sharing) in rows a–e.
- Recovered and unrecovered **indirect costs** should be reported in rows f1 and f2.

|   |  | R&D expenditures<br>(Dollars in thousands)      |
|---|--|---|
| <b>a. Salaries, wages, and fringe benefits</b>  |  |   |
| Include compensation for all R&D personnel whether full-time or part-time, temporary or permanent. Include salaries, wages, and fringe benefits paid from your institution's funds and from external support. |  | \$ <u>78407</u>                                 |
| <b>b. Software purchases</b>  |  |   |
| All payments for software. Include both purchases of software packages and license fees for systems.  |  |   |
| <b>1. Noncapitalized software</b>   |  | \$ <u>0</u>                                     |
| <b>2. Capitalized software</b> (If you are unable to distinguish capitalized software from capitalized equipment, report both in row c.)  |  | \$ <u>417</u>                                   |
| <b>c. Capitalized equipment</b>   |  |   |
| Payments for movable equipment exceeding your institution's capitalization threshold. Include ancillary costs such as delivery and setup.   |  | \$ <u>5469</u>                                  |
| <b>d. Pass-throughs to other universities or organizations</b>  |  |   |
| (should match the total in Question 8, row e, column 3)   |  | \$ <u>21382</u>                                 |
| <b>e. Other direct costs</b>  |  |   |
| Other costs that do not fit into one of the above categories, including (but not limited to) travel, tuition waivers, services such as consulting, computer usage fees, and supplies.                         |  | \$ <u>26912</u>                                 |
| <b>f. Indirect costs</b>  |  |   |
| <b>1. Recovered indirect costs</b>  |  |   |
| Reimbursement of Facilities and Administrative (F&A) costs from external sponsors   |  | \$ <u>28188</u><br>(Confidential <sup>1</sup> ) |
| <b>2. Unrecovered indirect costs</b>  |  |   |
| (should equal Question 1, row e3)   |  | \$ <u>8808</u><br>(Confidential <sup>1</sup> )  |
| <b>3. Total indirect costs<sup>2</sup></b>  |  | \$ <u>36996</u>                                 |
| <b>g. Total<sup>2</sup></b>   |  |   |
| (should match total from Question 1, row g)   |  | \$ <u>169583</u>                                |

<sup>1</sup> Information from confidential items is not published or released for individual institutions; only aggregate totals will appear in publications. In accordance with the National Science Foundation Act of 1950, as amended, and other applicable federal laws, your responses will not be disclosed in identifiable form to anyone other than agency employees or authorized persons. Per the Federal Cybersecurity Enhancement Act of 2015, your data are protected from cybersecurity risks through screening of the federal information systems that transmit your data.

<sup>2</sup> Totals are automatically generated on the Web survey.

**Question 13. At the end of FY 2023, what were your institution's capitalization thresholds for software and equipment?**

|                                  |    |            | (Dollars in thousands) |            |
|----------------------------------|----|------------|------------------------|------------|
|                                  |    |            | (1)                    | (2)        |
|                                  |    |            | Software               | Equipment  |
| <b>Capitalization thresholds</b> | \$ | <u>5.0</u> | \$                     | <u>5.0</u> |

**Question 14A–C. For the R&D fields below, what portion of your FY 2023 R&D expenditures went for the purchase of capitalized R&D equipment?**

- Question 14 total (row K, column c) should match Question 12, row c (Capitalized equipment).

**R&D equipment expenditures  
(Dollars in thousands)**

| R&D Fields<br>(See Question 9, pp. 13–14)                       | (a)<br>Federal | (b)<br>Nonfederal | (c)<br>Total <sup>1</sup> |
|---|----------------|-------------------|---------------------------|
| <b>A. Computer and Information Sciences</b>                     | \$ 0           | \$ 0              | \$ 0                      |
| <b>B. Engineering</b>   |                |                   |                           |
| 1. Aerospace, Aeronautical, and Astronautical Engineering       | \$ 0           | \$ 0              | \$ 0                      |
| 2. Bioengineering and Biomedical Engineering                    | \$ 72          | \$ 350            | \$ 422                    |
| 3. Chemical Engineering   | \$ 154         | \$ 159            | \$ 313                    |
| 4. Civil Engineering  | \$ 228         | \$ 32             | \$ 260                    |
| 5. Electrical, Electronic, and Communications Engineering       | \$ 82          | \$ 63             | \$ 145                    |
| 6. Industrial and Manufacturing Engineering                     | \$ 0           | \$ 0              | \$ 0                      |
| 7. Mechanical Engineering                                       | \$ 1341        | \$ 931            | \$ 2272                   |
| 8. Metallurgical and Materials Engineering                      | \$ 504         | \$ 180            | \$ 684                    |
| 9. Other Engineering  | \$ 0           | \$ 0              | \$ 0                      |
| 10. <b>Total<sup>1</sup></b>                                    | \$ 2381        | \$ 1715           | \$ 4096                   |
| <b>C. Geosciences, Atmospheric Sciences, and Ocean Sciences</b> |                |                   |                           |
| 1. Atmospheric Science and Meteorology                          | \$ 0           | \$ 0              | \$ 0                      |
| 2. Geological and Earth Sciences                                | \$ 0           | \$ 0              | \$ 0                      |
| 3. Ocean Sciences and Marine Sciences                           | \$ 0           | \$ 0              | \$ 0                      |
| 4. Other Geosciences, Atmospheric Sciences, and Ocean Sciences  | \$ 0           | \$ 0              | \$ 0                      |
| 5. <b>Total<sup>1</sup></b>                                     | \$ 0           | \$ 0              | \$ 0                      |

<sup>1</sup> Row and column totals are automatically generated on the Web survey.

Examples of disciplines for the above fields of R&D are listed on pages 13–14.

**Question 14D–I. For the R&D fields below, what portion of your FY 2023 R&D expenditures went for the purchase of capitalized R&D equipment?**

| R&D Fields<br>(See Question 9, pp. 15–17)        | R&D equipment expenditures<br>(Dollars in thousands) |                   |                           |
|--|--|-------------------|---------------------------|
|  | (a)<br>Federal                                       | (b)<br>Nonfederal | (c)<br>Total <sup>1</sup> |
| <b>D. Life Sciences</b>                          |  |                   |                           |
| 1. Agricultural Sciences                         | \$ 0   | \$ 0              | \$ 0                      |
| 2. Biological and Biomedical Sciences            | \$ 243   | \$ 222            | \$ 465                    |
| 3. Health Sciences                               | \$ 0   | \$ 115            | \$ 115                    |
| 4. Natural Resources and Conservation            | \$ 0   | \$ 13             | \$ 13                     |
| 5. Other Life Sciences                           | \$ 0   | \$ 0              | \$ 0                      |
| 6. Total <sup>1</sup>                            | \$ 243   | \$ 350            | \$ 593                    |
| <b>E. Mathematics and Statistics</b>             | \$ 0   | \$ 0              | \$ 0                      |
| <b>F. Physical Sciences</b>                      |  |                   |                           |
| 1. Astronomy and Astrophysics                    | \$ 0   | \$ 0              | \$ 0                      |
| 2. Chemistry                                     | \$ 28  | \$ 643            | \$ 671                    |
| 3. Materials Science                             | \$ 0   | \$ 0              | \$ 0                      |
| 4. Physics                                       | \$ 0   | \$ 2              | \$ 2                      |
| 5. Other Physical Sciences                       | \$ 0   | \$ 0              | \$ 0                      |
| 6. Total <sup>1</sup>                            | \$ 28  | \$ 645            | \$ 673                    |
| <b>G. Psychology</b>                             | \$ 0   | \$ 85             | \$ 85                     |
| <b>H. Social Sciences</b>                        |  |                   |                           |
| 1. Anthropology                                  | \$ 0   | \$ 0              | \$ 0                      |
| 2. Economics                                     | \$ 0   | \$ 0              | \$ 0                      |
| 3. Political Science and Government              | \$ 0   | \$ 0              | \$ 0                      |
| 4. Sociology, Demography, and Population Studies | \$ 0   | \$ 0              | \$ 0                      |
| 5. Other Social Sciences                         | \$ 0   | \$ 0              | \$ 0                      |
| 6. Total <sup>1</sup>                            | \$ 0   | \$ 0              | \$ 0                      |
| <b>I. Other Sciences</b>                         | \$ 0   | \$ 8              | \$ 8                      |

<sup>1</sup> Row and column totals are automatically generated on the Web survey.

Examples of disciplines for the above fields of R&D are listed on pages 15–17.

Question 14 continues on next page.

**Question 14J–K. For the non-science and engineering (non-S&E) R&D fields below, what portion of your FY 2023 R&D expenditures went for the purchase of capitalized R&D equipment?**

**R&D equipment expenditures  
(Dollars in thousands)**

| <b>R&amp;D Fields</b><br>(See Question 9, p. 19)      | <b>(a)<br/>Federal</b> | <b>(b)<br/>Nonfederal</b> | <b>(c)<br/>Total<sup>1</sup></b> |
|---|------------------------|---------------------------|----------------------------------|
| <b>J. Non-S&amp;E Fields</b>                          |                        |                           |                                  |
| 1. Business Management and Business Administration    | \$ 0                   | \$ 0                      | \$ 0                             |
| 2. Communication and Communications Technologies      | \$ 0                   | \$ 0                      | \$ 0                             |
| 3. Education  | \$ 0                   | \$ 0                      | \$ 0                             |
| 4. Humanities   | \$ 0                   | \$ 0                      | \$ 0                             |
| 5. Law  | \$ 0                   | \$ 0                      | \$ 0                             |
| 6. Social Work  | \$ 0                   | \$ 0                      | \$ 0                             |
| 7. Visual and Performing Arts                         | \$ 0                   | \$ 14                     | \$ 14                            |
| 8. Other Non-S&E Fields                               | \$ 0                   | \$ 0                      | \$ 0                             |
| 9. <b>Total<sup>1</sup></b>                           | \$ 0                   | \$ 14                     | \$ 14                            |
| <b>K. Total for All Fields of R&amp;D<sup>1</sup></b> | \$ 2652                | \$ 2817                   | \$ 5469                          |

**Total for row K, column c, should match Question 12, row c (Capitalized equipment).**

<sup>1</sup> Row and column totals are automatically generated on the Web survey.

**Examples of disciplines for non-S&E fields of R&D are listed on page 19.**

**Question 15. How many personnel (headcount) worked in the functions listed below in FY 2023, and in which demographic and educational categories would these personnel be placed?**

- Headcount by sex, citizenship, and highest level of education is confidential<sup>1</sup>. Total headcount by research function (row A) will be published by institution.
- Include each person only once in headcount. If they performed work in two roles (e.g., researcher and technician), include them in the headcount for their predominant role.
- Include all personnel and students paid from R&D accounts regardless of how much they were paid. Pay could be a salary, a stipend, or tuition remission.
- Exclude personnel that would be considered indirect research support such as research administration and other personnel not paid for work on specific research projects.
- **Functions** are defined primarily by the nature of the employee's work, not the employee's level of education. Depending on the nature of their work, a student could be placed in any functional category. **See page 30 for a description of each R&D function.**

|  | (a)<br>Researchers      | (b)<br>R&D<br>technicians | (c)<br>R&D support<br>staff | (d)<br>Total <sup>2</sup> |
|--|-------------------------|---------------------------|-----------------------------|---------------------------|
| <b>A. Total R&amp;D personnel</b>  | 1422                    | 477                       | 612                         | 2511                      |
| <b>B. Sex<sup>1</sup></b>  |                         |                           |                             |                           |
| 1. Female  | 746                     | 313                       | 387                         | 1446                      |
| 2. Male  | 673                     | 160                       | 223                         | 1056                      |
| 3. Sex unknown or not stated   | 3                       | 4                         | 2                           | 9                         |
| <b>C. Citizenship<sup>1</sup></b>  |                         |                           |                             |                           |
| 1. U.S. citizens and permanent residents (non-U.S. citizens holding Green Cards) | 1069                    | 440                       | 508                         | 2017                      |
| 2. Foreign nationals holding temporary visas                                     | 0                       | 0                         | 0                           | 0                         |
| 3. Citizenship or residency status unknown or not stated                         | 353                     | 37                        | 104                         | 494                       |
| <b>D. Highest level of education completed<sup>1</sup></b>                       | <b>Researchers only</b> |                           |                             |                           |
| 1. Doctorate (e.g., PhD, DSc, EdD)   | Unavailable             |                           |                             |                           |
| 2. Professional degree (e.g., JD, LLB, MD, DDS, DVM)                             | Unavailable             |                           |                             |                           |
| 3. Master's degree (e.g., MS, MA, MBA)   | Unavailable             |                           |                             |                           |
| 4. Less than Master's  | Unavailable             |                           |                             |                           |
| 5. Education level unknown or not stated   | Unavailable             |                           |                             |                           |

Do not include highest level of education for R&D technicians or R&D support staff.

<sup>1</sup> Information from confidential items is not published or released for individual institutions; only aggregate totals will appear in publications. In accordance with the National Science Foundation Act of 1950, as amended, and other applicable federal laws, your responses will not be disclosed in identifiable form to anyone other than agency employees or authorized persons. Per the Federal Cybersecurity Enhancement Act of 2015, your data are protected from cybersecurity risks through screening of the federal information systems that transmit your data.

<sup>2</sup> Totals are automatically generated on the Web survey.

**Description of R&D Functions**

| <b>Researchers</b>  | <b>R&amp;D technicians</b>   | <b>R&amp;D support staff</b>  |
|---|--|---|
| Professionals engaged in the conception or creation of new knowledge, products, processes, methods and systems and also in the management of the projects concerned. Include R&D managers in this category. | Persons whose main tasks require technical knowledge and experience in one or more fields of science or engineering, but who contribute to R&D by performing technical tasks such as computer programming, data analysis, ensuring accurate testing, operating lab equipment, and preparing and processing samples under the supervision of researchers. | Not directly involved with the conduct of a research project but support the researchers and technicians. These employees might include clerical staff, financial and personnel administrators, report writers, patent agents, safety trainers, equipment specialists, and other related employees. |

**Researcher versus R&D technician**

Researchers contribute more to the creative aspects of R&D whereas technicians provide technical support. For example, a researcher would design an experiment, and a technician would run the experiment and assist in analyzing results.

**Question 16. How many full-time equivalents (FTEs) worked in the functions listed below in FY 2023?**

- All personnel counted in Question 15 should be included in FTE calculations; however, we would expect FTEs to be less than headcounts.
- FTEs for this question are calculated as the total working effort **spent on research** during your fiscal year divided by the total effort representing one full-time schedule within the same period. See table below this question for examples of FTE calculations.
- An individual cannot be more than 1.0 FTE. An individual counted as 1.0 FTE for this question, would spend 100% of their working effort on research. If an individual exceeds 1.0 research FTE based on your standard calculations, adjust down to 1.0.
- See Question 15 for descriptions of each function.

**FTEs**  
(round to 1 decimal place)

|                       |               |
|-----------------------|---------------|
| a. Researchers        | <u>1259.1</u> |
| b. R&D technicians    | <u>353.0</u>  |
| c. R&D support staff  | <u>582.5</u>  |
| d. Total <sup>1</sup> | <u>2194.6</u> |

<sup>1</sup> Total is automatically generated on the Web survey.

**Examples of FTE Calculations**

**Using labor hours:**

The following examples assume a 40-hour work week during a 49-week work year (1,960 hours), which excludes 3 weeks for vacation, holidays, etc. However, you should use the hours per week and weeks per year that typically represent a full-time employee at your organization.

- 10 researchers who spent a combined 13,720 hours on research:  $13,720/1,960 = 7.0$  FTE
- 1 researcher who works on research 20% of the time for 20 weeks, 50% of the time for another 20 weeks, and full-time for 9 weeks:  $((20\% * 20) + (50\% * 20) + 9) / 49 = 0.5$  FTE
- 2 research technicians who worked exclusively on research but only for 32 weeks:  $(2 * (32 * 40)) / 1,960 = 1.3$  FTE
- 10 student employees during the summer who each worked on research full-time time for 10 weeks:  $10 * (10/49) = 2.0$  FTE

**Using salary:**

FTE must be calculated for each individual and then summed for institution reporting.

- 1 researcher with a \$150,000 salary who was employed the entire year and \$120,000 of salary came from R&D accounts:  $120,000/150,000 = 0.8$  FTE
- 1 research support staff member with a \$60,000 salary for a 9-month appointment, of which \$40,000 came from R&D accounts:  $(40,000/60,000) * (9/12) = 0.5$  FTE

Question 17.

In what month did your institution's 2023 fiscal year end?

June

**Primary Contact Information.** Please complete the contact information for the person responsible for the survey.

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**Other Contact Information.** List individuals who should be copied on all e-mails about the survey or can create a login account. Job Title should include information about office/department as appropriate (e.g., VP of Sponsored Programs, Department of Finance Manager, Analyst II in Grants Management).

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