



National Science Foundation
WHERE DISCOVERIES BEGIN

NSF Survey of Federal Funds for Research and Development

FYs 2023–24
(Volume 73)

Department of Defense (DOD) Form

Due date: June 21, 2024

Questions?

- For questions about your agency's participation, contact NSF Project Manager Christopher Pece by e-mail at cpece@nsf.gov or at 703-292-7788.
- For technical questions, contact the Support Team by e-mail at NCSES-FedFundsSurvey@nsf.gov or at 703-312-5379.

The survey is authorized by the National Science Foundation Act of 1950 (42 U.S. Code 1862, P.L. 87-835), as amended, and the America COMPETES Reauthorization Act of 2010 §505.

Thank you for your participation.

What's New?

There are no major changes to the survey for this cycle, but the survey now collects Budget Activity 8 with Budget Activity 7 activities (see below). The website also has more functionality.

Specific Changes from Volume 72 to Volume 73

- Outlays and obligations for Budget Activity 8, Software and Digital Technology Pilot Programs, are now collected along with Budget Activity 7, Operational System Development, to ensure complete coverage of DOD Research, Development, Test, and Evaluation (RDT&E) data.
- Separate rows for American Samoa, Guam, the Northern Mariana Islands, and the U.S. Virgin Islands were added to the “state” questions (Questions 13, 14, and 15). Those are no longer included under Other U.S. territories as had been done in previous years. Other U.S. territories now include only Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Marshall Islands, Navassa Island, Palmyra Atoll, and Wake Island.
- There is a new university-affiliated research center, Howard University Research Institute for Tactical Autonomy (Question 19).

Website Changes

- Some introductory material was removed from the questionnaire:
 - How is the Survey Organized?
 - About the Survey of Federal Funds for Research and Development (R&D), and
 - List of R&D Fields and Example Disciplines.

These can be found in the Reference Materials section on the Home page of the website, although About the Survey has been replaced by Frequently Asked Questions.

- A Glossary has been added to the Reference Materials section.

General Survey Definitions and Instructions

The following section provides general guidance on what should be reported on the survey. These definitions come from OMB Circular A-11, Section 84.2(c). Additional definitions and other instructions are provided throughout the questionnaire as needed.

R&D Conduct (Budget activities 1–6)

Research and experimental development (R&D) conduct is defined as creative and systematic work undertaken in order to increase the stock of knowledge—including knowledge of people, culture, and society—and to devise new applications using available knowledge.

Basic research: Basic research is defined as experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts. Basic research may include activities with broad or general applications in mind, such as the study of how plant genomes change, but should exclude research directed towards a specific application or requirement, such as the optimization of the genome of a specific crop species. Basic research represents Department of Defense budget activity 1.

Applied research: Applied research is defined as original investigation undertaken in order to acquire new knowledge. Applied research is, however, directed primarily towards a specific practical aim or objective. Applied research represents Department of Defense budget activity 2.

Experimental development: Experimental development is defined as creative and systematic work, drawing on knowledge gained from research and practical experience, which is directed at producing new products or processes or improving existing products or processes. Like research, experimental development will result in gaining additional knowledge. (More details about what is included and excluded can be found in question 5).

For DOD agencies, experimental development includes:

- Advanced technology development (ATD) (budget activity 3)
- Major systems development (budget activities 4–6), consisting of:
 - Advanced component development and prototypes (ACD&P) (budget activity 4)
 - System development and demonstration (SDD) (budget activity 5)
 - RDT&E management support (budget activity 6)

RDT&E (Budget activities 1–8)

Research, development, test, and evaluation (RDT&E) consists of all the activities described above for R&D conduct **plus**:

Operational system development (budget activity 7) – pre-production development of non-experimental work on a product or system before it goes into full production, including activities such as tooling and development of production facilities.

Software and digital technology pilot programs (budget activity 8) – software, electronic tools, systems, applications, resources, acquisition of services, business process re-engineering activities, functional requirements development, technical

General Survey Definitions and Instructions (continued)

evaluations, and other activities in direct support of acquiring, developing, deploying, sustaining, enhancing, and modernizing Software Digital Technology Pilot Programs.

For DOD agencies, definitions are established by Department of Defense Instruction 5000.02 “Operation of the Defense Acquisition System.” For more information, see Budget Activities 1 through 8 in the DOD Financial Management Regulation (FMR), Volume 2B, Chapter 5, at:

https://comptroller.defense.gov/portals/45/documents/fmr/current/02b/02b_05.pdf

R&D Plant

R&D plant includes spending on both R&D facilities and major equipment as defined in Office of Management and Budget (OMB) Circular A-11, Section 84 (Schedule C) and includes physical assets, such as land, structures, equipment, and intellectual property (e.g., software or applications) that have an estimated useful life of two years or more; or commodity inventories.

Reporting for R&D plant includes the purchase, construction, manufacture, rehabilitation, or major improvement of physical assets regardless of whether the assets are owned or operated by the Federal Government, States, municipalities, or private individuals. The cost of the asset includes both its purchase price and all other costs incurred to bring it to a form and location for its intended use.

Obligations for foreign R&D plant are limited to federal funds for facilities that are located abroad and used in support of foreign R&D.

R&D Activities Must Be...

(Source: Frascati Manual 2015)

- **Novel:** projects that advance current knowledge or create new knowledge
- **Creative:** projects focused on original concepts and hypotheses
- **Uncertain:** project outcomes are unable to be completely determined at the outset
- **Systematic:** projects are planned and budgeted
- **Transferable/Reproducible:** project methodology and results are transferable/reproducible to other situations and locations

Types of Activities Not Likely To Be R&D

- Program planning and evaluation (unless part of an existing R&D program)
- Commercialization (includes promoting/producing the products/services from R&D projects)
- Economic/policy/feasibility studies
- General patient services
- Information systems
- Management studies
- Marketing of products/services
- Market research or analysis
- Routine data collection/dissemination

General Survey Definitions and Instructions (continued)

Types of Activities Not Likely To Be R&D (continued)

- Routine monitoring/testing
- Strategic planning
- Technology transfer

Types of Funding to Include

R&D Conduct and RDT&E

Include:

- All of your agency's RDT&E costs (which includes R&D conduct), regardless of whether the funding was from direct appropriations, trust funds, special account receipts, or fees and charges. Include RDT&E from all accounts, such as Military Personnel, Military Construction, Operations and Maintenance, Health and Medical, Civil Works and Engineering, and Overseas Contingency Operations.
- Agency R&D costs for non-U.S. performers.
- Costs of performing, planning, and administering RDT&E conducted by your agency, including laboratory overhead and pay of military personnel.
- For RDT&E contracts, include all of your agency's administrative costs.
- Minor equipment purchases, such as personal computers, standard microscopes, and simple spectrometers.
- Funds transferred to another agency for R&D. These should be reported as part of the Federal sector for R&D performance.
- Classified R&D programs should be included in question totals. Where classified programs cannot be reported by specific state-area location of performer (questions 13–15) report amounts using the "Undistributed" category.

Do not include:

- **Reimbursable funds provided to your agency by another federal agency. The originating agency will report these.**
- For RDT&E grants, do not include your agency's administrative costs.

R&D Plant

Include:

- Funding for the construction of facilities that are necessary for the execution of an R&D program. This may include land, major fixed equipment, and supporting infrastructure such as a sewer line, or housing at a remote location. Many laboratory buildings will include a mixture of R&D facilities and office space. The fraction of the building directly related to the conduct of R&D may be calculated based on the percentage of the building's total square footage.
- Acquisition, design, or production of major moveable equipment, such as mass spectrometers, research vessels, DNA sequencers, and other major moveable instruments for use in R&D activities.

General Survey Definitions and Instructions (continued)

- Programs of \$1 million or more that are devoted to the purchase or construction of R&D major equipment.
- Agency R&D plant costs for non-U.S. performers.

Do not include:

- Construction of other facilities, such as office space.
- Minor equipment purchases, such as personal computers, standard microscopes, and simple spectrometers (if part of an R&D activity, report these costs under R&D conduct and RDT&E, not R&D plant).

How Should I Report My Data?

- Report total (gross) obligations; do not report net of deobligations.
- Report actual dollars for all amounts.
- Where possible, use enacted appropriation rather than annualized continuing resolution amounts.
- R&D outlays and obligations reported in this survey should be consistent with amounts in the Budget of the United States Government. See OMB Circular A-11, Section 84.3(g). The same definitions are used for both.
- Report all outlays or obligations that occurred in FY 2023, and those estimated for FY 2024. This survey's FY 2024 estimates will be collected again on next year's survey as final outlays and obligations with the FY 2025 estimates.
- Report the fiscal year in which the outlay or obligation was made regardless of when the funds were originally authorized, received, or appropriated.

Notes on Deobligations

- Respondents should not adjust for deobligations. For this survey, agencies should report the total amounts obligated without any adjustment for deobligations. The only place to account for deobligations is Question 4.
- While agencies may prefer to report R&D and R&D plant net of deobligations, the data collected for this survey are for statistical purposes and should not be treated as equivalent to a financial statement or audit, as such survey results will differ from financial accounting statements.

1 FYs 2023 and 2024 outlays for RDT&E and R&D plant

What were your agency’s outlays for RDT&E and R&D plant in fiscal year (FY) 2023 and what are your agency’s estimated outlays for FY 2024?

Definition from OMB Circular A-11, Section 20.3: Outlay means a payment to liquidate an obligation (other than the repayment of debt principal or other disbursements that are "means of financing" transactions). Outlays generally are equal to cash disbursements but also are recorded for cash-equivalent transactions, such as the issuance of debentures to pay insurance claims, and in a few cases are recorded on an accrual basis such as interest on public issues of the public debt.

- Report prior year actuals and current year estimates for outlays.
- Amounts should be reported regardless of whether or not they were originally appropriated, received, or identified in your agency’s budget specifically for RDT&E or R&D plant.

RDT&E Outlays
(Round to the nearest dollar)

	(a) FY 2023 Actual	(b) FY 2024 Estimated
a. RDT&E		
1. R&D conduct (budget activities 1–6)	\$ _____	\$ _____
2. Operational system development and software and digital technology pilot programs (budget activities 7–8)	\$ _____	\$ _____
3. Total RDT&E	TOTAL	TOTAL
b. R&D plant	\$ _____	\$ _____
c. Total RDT&E and R&D plant	TOTAL	TOTAL

If needed, use the space below to provide clarification for the data reported in this question.

2 FY 2023 comparison of R&D outlays with OMB Circular A-11 Schedule C

What outlays for R&D conduct and R&D plant did your agency report to the Office of Management and Budget (OMB) in response to Circular A-11, section 84 (MAX A-11) in FY 2023?

This question is addressed only to the respondents who have access to their agency’s report to OMB.

As noted in OMB Circular A-11, Section 84.3(g):

- You should be able to reconcile information reported in schedule C for the conduct of R&D with information reported in the National Science Foundation’s *Survey of Federal Funds for R&D*, and with information provided in the supplemental R&D data requests described in [84.3](h).
- You should also be able to reconcile the total reported in schedule C for the construction of R&D facilities and major movable equipment with information reported as R&D plant in the National Science Foundation’s *Survey of Federal Funds for R&D*.

**R&D Outlays
(Round to the nearest dollar)**

FY 2023 Actual	
a. R&D conduct	
1. Outlays for R&D conduct (budget activities 1–6) reported in question 1 row a for FY 2023	Autofill on website
2. Outlays for R&D conduct reported to OMB in response to Circular A-11, section 84 (MAX A-11)	\$ <input style="width: 100px;" type="text"/>
3. Difference in outlays for R&D conduct (row a.1 minus row a.2)	Autofill on website

Use the space below to explain any difference between rows a.1 and a.2.

**R&D Plant Outlays
(Round to the nearest dollar)**

FY 2023 Actual	
b. R&D plant	
1. Outlays for R&D plant reported in question 1 row b for FY 2023	Autofill on website
2. Outlays for R&D Facilities plus Major R&D Equipment Reported to OMB in response to Circular A-11, section 84 (MAX A-11)	\$ <input style="width: 100px;" type="text"/>
3. Difference in outlays for R&D plant (row b.1 minus row b.2)	Autofill on website

Use the space below to explain any difference between rows b.1 and b.2.

3 FYs 2023 and 2024 total obligations for RDT&E and R&D plant

What were your agency’s obligations for RDT&E and R&D plant in all fields in FY 2023 and what are your agency's estimated obligations for FY 2024?

Definition from OMB Circular A-11, Section 20.3: Obligation means a binding agreement that will result in outlays, immediately or in the future. Budgetary resources must be available before obligations can be incurred legally.

Include:

- All R&D obligated by your agency, regardless of whether the funding was from direct appropriations, trust funds, special account receipts, fees and charges, or special appropriations (e.g., the CHIPS and Science Act, the Inflation Reduction Act, and the Infrastructure Investment and Jobs Act).

Exclude:

- Reimbursable funds provided to your agency by another federal agency.

Note: Report gross obligations in all questions except question 4, which is the only place where the total level of deobligations should be reported. Do not enter negative numbers in any questions.

**RDT&E Obligations
(Round to the nearest dollar)**

	(a) FY 2023 Actual	(b) FY 2024 Estimated
a. RDT&E		
1. R&D conduct (budget activities 1–6)	\$ _____	\$ _____
2. Operational system development and software and digital technology pilot programs (budget activities 7–8)	\$ _____	\$ _____
3. Total RDT&E	TOTAL	TOTAL
b. R&D plant	\$ _____	\$ _____
c. Total RDT&E and R&D plant	TOTAL	TOTAL

If needed, use the space below to provide clarification for the data reported in this question.

4 FY 2023 R&D deobligations

How much of the R&D funding your agency obligated in prior years was deobligated in FY 2023?

- Exclude any deobligations for operational system development (budget activity 7) and software and digital technology pilot programs (budget activity 8).
- As examples, deobligations might occur when a contract is cancelled or when not all of the obligated funds are spent, allowing the funds to be reobligated somewhere else or returned to the Department of the Treasury.
- This is the **only** question where the amount of deobligations should be reported. Do not enter negative numbers in the other questions; that is, report gross obligations in all other questions.
- Choose one response per row.

R&D Deobligations (FY 2023 Actual)
(Round to the nearest dollar)

	None or not applicable	Less than \$1 million	\$1,000,000 to \$9,999,999	\$10,000,000 to \$49,999,999	\$50,000,000 or more	Not available
a. R&D conduct (budget activities 1–6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. R&D plant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If needed, use the space below to provide clarification for the data reported in this question.

5 FYs 2023 and 2024 obligations for RDT&E by type of work

What were your agency’s obligations for RDT&E by type of work in FY 2023 and what are your agency's estimated obligations by type of work in FY 2024?

- If you cannot assign a project’s obligations precisely across the five categories below, use your best judgment to allocate the obligations.
- The definitions below are from OMB Circular A-11, Section 84.2(c), and the DOD Financial Management Regulation (FMR). For more information, see budget activities 1–8 on pages 5-4 through 5-6 of the DOD Financial Management Regulation (FMR), Volume 2B, Chapter 5, at: https://comptroller.defense.gov/portals/45/documents/fmr/current/02b/02b_05.pdf

Basic research (budget activity 1): Experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts. Basic research may include activities with broad or general applications in mind, such as the study of how plant genomes change, but should exclude research directed towards a specific application or requirement, such as the optimization of the genome of a specific crop species.

Applied research (budget activity 2): Original investigation undertaken in order to acquire new knowledge. Applied research is, however, directed primarily towards a specific practical aim or objective.

Advanced technology development (budget activity 3): Includes development of subsystems and components and efforts to integrate subsystems and components into system prototypes for field experiments and/or tests in a simulated environment. Includes concept and technology demonstrations of components and subsystems or system models.

Major systems development (budget activities 4–6): Includes Advanced Component Development and Prototypes (ACD&P) (BA 4), System Development and Demonstration (SDD) (BA 5), and RDT&E Management Support (BA 6). As of the FY 2016 data collection, major systems development no longer includes Budget Activity 7.

Operational system development and software and digital technology pilot programs (budget activities 7–8): Pre-production development, defined as non-experimental work on a product or system before it goes into full production, including activities such as tooling and development of production facilities. Software and digital technology pilot programs include software, electronic tools, systems, applications, resources, acquisition of services, business process re-engineering activities, functional requirements development, technical evaluations, and other activities in direct support of acquiring, developing, deploying, sustaining, enhancing, and modernizing software digital technology pilot programs.

**RDT&E Obligations
(Round to the nearest dollar)**

	(1) FY 2023 Actual	(2) FY 2024 Estimated
a. Basic research (budget activity 1)	\$ _____	\$ _____
b. Applied research (budget activity 2)	\$ _____	\$ _____
c. Advanced technology development (budget activity 3)	\$ _____	\$ _____
d. Major systems development (budget activities 4–6)	\$ _____	\$ _____
e. Operational system development and software and digital technology pilot programs (budget activities 7–8)	\$ _____	\$ _____
f. Total RDT&E	TOTAL	TOTAL
<i>Cross check: totals in row f above should match the amounts from question 3.a.3 displayed here.</i>	<i>Q3.a.3(a) value</i>	<i>Q3.a.3(b) value</i>

If needed, use the space below to provide clarification for the data reported in this question.

6 FYs 2023 and 2024 obligations for Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR)

Of the obligations reported in question 5 for major systems development (budget activities 4–6), how much was for budget activity 6 and how much was for Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) awards?

This question applies only if you reported major systems development (budget activities 4–6) in question 5.

**R&D Obligations
(Round to the nearest dollar)**

	(a) FY 2023 Actual	(b) FY 2024 Estimated
a. Of the amount reported as major systems development (budget activities 4–6), how much was for budget activity 6?	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>
1. Of the amount reported as budget activity 6, how much was for SBIR/STTR awards?	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>
b. How much of your agency’s obligations for SBIR/STTR awards was from any other budget activity codes or accounts?	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>
c. Total SBIR/STTR awards	TOTAL	TOTAL
<i>Cross check: amounts for SBIR/STTR awards in a.1 should be less than or equal to the amounts from question 5.d displayed here.</i>	Q5.d(1) value	Q5.d(2) value

If needed, use the space below to provide clarification for the data reported in this question.

7 FY 2023 obligations for R&D conduct by type of work and detailed field of R&D

What were your agency’s obligations for basic research, applied research, and experimental development in the fields below in FY 2023?

- Experimental development includes advanced technology development (budget activity 3) and major systems development (budget activities 4–6). EXCLUDE operational system development and software and digital technology pilot programs (budget activities 7–8).
- If an obligation was intended to support R&D in multiple fields (i.e., interdisciplinary research), please prorate the obligation for each field involved when possible. Do not double-count funds across multiple fields.
- Examples of the fields and disciplines are provided in the Reference Materials section on the Home page of the survey website. “Business management and business administration” for example is for R&D in those topics, not administration of R&D in other fields.
- **New for Volume 73:** The fields “veterinary biomedical and clinical sciences” and “veterinary medicine” have been moved from c.3, Life sciences/Health sciences to c.1, Life sciences/Agricultural sciences.

R&D Obligations (FY 2023 Actual)
(Round to the nearest dollar)

Field of R&D	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Experimental development (BA 3–6)	(d) Total R&D conduct
a. Computer and information sciences	\$ _____	\$ _____	\$ _____	TOTAL
b. Geosciences, atmospheric sciences, and ocean sciences				
1. Atmospheric science and meteorology	\$ _____	\$ _____	\$ _____	TOTAL
2. Geological and earth sciences	\$ _____	\$ _____	\$ _____	TOTAL
3. Ocean sciences and marine sciences	\$ _____	\$ _____	\$ _____	TOTAL
4. Other geosciences, atmospheric sciences, and ocean sciences	\$ _____	\$ _____	\$ _____	TOTAL
5. Total geosciences, atmospheric sciences, and ocean sciences	TOTAL	TOTAL	TOTAL	TOTAL
c. Life sciences				
1. Agricultural sciences	\$ _____	\$ _____	\$ _____	TOTAL
2. Biological and biomedical sciences	\$ _____	\$ _____	\$ _____	TOTAL
3. Health sciences	\$ _____	\$ _____	\$ _____	TOTAL
4. Natural resources and conservation	\$ _____	\$ _____	\$ _____	TOTAL
5. Other life sciences	\$ _____	\$ _____	\$ _____	TOTAL
6. Total life sciences	TOTAL	TOTAL	TOTAL	TOTAL
d. Mathematics and statistics	\$ _____	\$ _____	\$ _____	TOTAL

→ Question 7 continues on the next page.

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7 FY 2023 obligations for R&D conduct by type of work and detailed field of R&D
(continued)

**R&D Obligations (FY 2023 Actual)
(Round to the nearest dollar)**

Field of R&D	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Experimental development (BA 3–6)	(d) Total R&D conduct
e. Physical sciences				
1. Astronomy and astrophysics	\$ _____	\$ _____	\$ _____	TOTAL
2. Chemistry	\$ _____	\$ _____	\$ _____	TOTAL
3. Materials science	\$ _____	\$ _____	\$ _____	TOTAL
4. Physics	\$ _____	\$ _____	\$ _____	TOTAL
5. Other physical sciences	\$ _____	\$ _____	\$ _____	TOTAL
6. Total physical sciences	TOTAL	TOTAL	TOTAL	TOTAL
f. Psychology				
1. Biological aspects	\$ _____	\$ _____	\$ _____	TOTAL
2. Social aspects	\$ _____	\$ _____	\$ _____	TOTAL
3. Other psychological sciences	\$ _____	\$ _____	\$ _____	TOTAL
4. Total psychology	TOTAL	TOTAL	TOTAL	TOTAL
g. Social sciences				
1. Anthropology	\$ _____	\$ _____	\$ _____	TOTAL
2. Economics	\$ _____	\$ _____	\$ _____	TOTAL
3. Political science and government	\$ _____	\$ _____	\$ _____	TOTAL
4. Sociology, demography, and population studies	\$ _____	\$ _____	\$ _____	TOTAL
5. Other social sciences	\$ _____	\$ _____	\$ _____	TOTAL
6. Total social sciences	TOTAL	TOTAL	TOTAL	TOTAL

→ Question 7 continues on the next page.

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7 FY 2023 obligations for R&D conduct by type of work and detailed field of R&D
(continued)

R&D Obligations (FY 2023 Actual)
(Round to the nearest dollar)

Field of R&D	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Experimental development (BA 3–6)	(d) Total R&D conduct
h. Engineering				
1. Aerospace, aeronautical, and astronautical engineering	\$ _____	\$ _____	\$ _____	TOTAL
2. Bioengineering and biomedical engineering	\$ _____	\$ _____	\$ _____	TOTAL
3. Chemical engineering	\$ _____	\$ _____	\$ _____	TOTAL
4. Civil engineering	\$ _____	\$ _____	\$ _____	TOTAL
5. Electrical, electronics, and communications engineering	\$ _____	\$ _____	\$ _____	TOTAL
6. Industrial and manufacturing engineering	\$ _____	\$ _____	\$ _____	TOTAL
7. Mechanical engineering	\$ _____	\$ _____	\$ _____	TOTAL
8. Metallurgical and materials engineering	\$ _____	\$ _____	\$ _____	TOTAL
9. Other engineering	\$ _____	\$ _____	\$ _____	TOTAL
10. Total engineering	TOTAL	TOTAL	TOTAL	TOTAL
i. Other fields				
1. Business management and business administration	\$ _____	\$ _____	\$ _____	TOTAL
2. Communication and communications technologies	\$ _____	\$ _____	\$ _____	TOTAL
3. Education research	\$ _____	\$ _____	\$ _____	TOTAL
4. Humanities	\$ _____	\$ _____	\$ _____	TOTAL
5. Law	\$ _____	\$ _____	\$ _____	TOTAL
6. Social work	\$ _____	\$ _____	\$ _____	TOTAL
7. Visual and performing arts	\$ _____	\$ _____	\$ _____	TOTAL
8. All other fields	\$ _____	\$ _____	\$ _____	TOTAL
9. Total other fields	TOTAL	TOTAL	TOTAL	TOTAL
j. Total, all fields of R&D conduct	TOTAL	TOTAL	TOTAL	TOTAL
<i>Cross check: totals in row j above should match the FY 2023 amounts from question 5, rows a, b, c, and d and question 3, row a, displayed here.</i>	Q5.a(1) value	Q5.b(1) value	Q5.c(1) + Q5.d(1) value	Q3.a.1(a) value

If needed, use the space below to provide clarification for the data reported in this question.

8 FY 2024 obligations for R&D conduct by type of work and broad field of R&D

What are your agency’s estimated obligations for basic research, applied research, and experimental development in the fields below in FY 2024?

- Experimental development includes advanced technology development (budget activity 3) and major systems development (budget activities 4–6). EXCLUDE operational system development and software and digital technology pilot programs (budget activities 7–8).
- If an obligation is intended to support R&D in multiple fields (i. e., interdisciplinary research), please prorate the obligation for each field involved when possible. Do not double-count funds across multiple fields.
- Examples of fields and disciplines are provided in the Reference Materials section on the Home page of the survey website.

R&D Obligations (FY 2024 Estimated)
(Round to the nearest dollar)

Field of R&D	(1) Basic research (BA 1)	(2) Applied research (BA 2)	(3) Experimental development (BA 3–6)	(4) Total R&D conduct
a. Computer and information sciences	\$ _____	\$ _____	\$ _____	TOTAL
b. Geosciences, atmospheric sciences, and ocean sciences	\$ _____	\$ _____	\$ _____	TOTAL
c. Life sciences	\$ _____	\$ _____	\$ _____	TOTAL
d. Mathematics and statistics	\$ _____	\$ _____	\$ _____	TOTAL
e. Physical sciences	\$ _____	\$ _____	\$ _____	TOTAL
f. Psychology	\$ _____	\$ _____	\$ _____	TOTAL
g. Social sciences	\$ _____	\$ _____	\$ _____	TOTAL
h. Engineering	\$ _____	\$ _____	\$ _____	TOTAL
i. Other fields	\$ _____	\$ _____	\$ _____	TOTAL
j. Total, all fields of R&D conduct	TOTAL	TOTAL	TOTAL	TOTAL
<i>Cross check: totals in row j above should match the FY 2024 amounts from question 5, rows a, b, and c plus d, and question 3, row a.1, displayed here.</i>	<i>Q5.a(2) value</i>	<i>Q5.b(2) value</i>	<i>Q5.c(2) + Q5.d(2) value</i>	<i>Q3.a.1 (b) value</i>

If needed, use the space below to provide clarification for the data reported in this question.

9 FY 2023 RDT&E and R&D plant obligations by performer and type of work

For each of the following types of R&D performers, what were your agency's obligations for RDT&E by type of work and for R&D plant in FY 2023?

- Report obligations in terms of the immediate recipient, even if funds were later passed on to subgrantees or subcontractors.

Federal: Obligations for R&D conducted by your federal agency or sent to other federal agencies (intragovernmental transfers), and your agency's costs for administering both R&D within the federal government and R&D contracts and cooperative agreements.

- Include, for example, a federal employee's travel.
- Exclude costs for administering R&D grants.
- Exclude military service academies; report these under higher education.

Federally Funded R&D Centers (FFRDCs): FFRDCs are designated by the federal government, must be separately organized units receiving at least 70% of their funds from the federal government, and have an annual budget of at least \$500,000. The FFRDCs are listed in question 18.

Intragovernmental transfers for use of another agency's sponsored FFRDC should be reported as obligations to FFRDCs, also report specific amounts to individual FFRDCs on question 18.

Businesses: Domestic for-profit businesses or industrial firms.

- Exclude FFRDCs administered by these organizations; report those under FFRDCs.

Higher education: Domestic higher education institutions, military service academies, and academic consortia.

- Higher education institutions are institutions that engage primarily in providing resident and/or accredited instruction for a not less than a 2-year program above the secondary school level that is acceptable for full credit toward a bachelor's degree or that provide not less than a 1-year program of training above the secondary school level that prepares students for gainful employment in a recognized occupation. Included are colleges of liberal arts; schools of arts and sciences; professional schools, as in engineering and medicine, including hospitals, clinics, and research centers that are financial constituents of universities; and agricultural experiment stations. (Refer to *Organization Codes for Higher Education and Nonprofit Institutions* under Reference Materials on the Home page for classification of individual institutions.)
- Consortia are organizations formed by the membership of several institutions from one or more types of performers (i.e., higher education or nonprofit) in order to promote and support efforts to enhance knowledge in one or more disciplines. Consortia that include both higher education institutions and nonprofits have been assigned to one of the two categories by NSF. If your agency funds such consortia, it may be helpful to answer questions 20 and 21 first so you know how they are classified.
- Include fellowships, traineeships, and training grants supporting research; exclude all other awards to individuals and report these under obligations for S&E on question 20.
- Include awards to University Affiliated Research Centers (UARCs). The list of individual UARCs can be found in question 19.
- Exclude FFRDCs administered by higher education organizations; report those under FFRDCs.
- Exclude foreign higher education institutions; report those under non-U.S. performers.

Other nonprofits: Domestic nonprofit organizations other than universities and colleges.

- Nonprofit organizations are businesses granted tax-exempt status by the IRS. Nonprofits pay no income tax on the donations they receive or on any money that they earn through fundraising activities. Nonprofit organizations are sometimes called NPOs or 501(c) organizations, based on the section of the tax code that permits them to operate. (For the purposes of this survey, some nonprofits are classified as academic institutions: refer to *Organization Codes for Higher Education and Nonprofit Institutions* under Reference Materials on the Home page of the survey or the organization search tool for classification of individual institutions.)
- Include nonprofit hospitals and consortia (see definition of consortia under higher education above).
- Exclude hospitals, clinics, and research centers that are financial constituents of universities.
- Exclude FFRDCs administered by nonprofit organizations; report those under FFRDCs.

→ Question 9 continues on the next page.

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NSF Survey of Federal Funds for Research and Development (DOD Form) – Volume 73 (FYs 2023–24)

9 FY 2023 RDT&E and R&D plant obligations by performer and type of work
(continued)

State and local government: State, county, municipality, public authority, or other local government entity in the United States.

- Exclude state and local universities and colleges or agricultural experiment stations; report these under higher education.

Non-U.S. performers: R&D performers outside of the United States.

- Include foreign higher education institutions.
- Exclude R&D performed by U.S. organizations or U.S. citizens in other nations.

RDT&E Obligations (FY 2023 Actual)
(Round to the nearest dollar)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
R&D performer	Basic research (BA 1)	Applied research (BA 2)	Advanced technology development (BA 3)	Major systems development (BA 4–6)	OSD and software pilot programs (BA 7–8)	R&D plant	Total RDT&E and R&D plant
a. Federal	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
b. Federally Funded R&D Centers (FFRDCs)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
c. Businesses	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
d. Higher education (U.S. institutions only)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
e. Other nonprofits (i.e., other than higher education institutions; U.S. nonprofits only)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
f. State and local government	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
g. Non-U.S. performers	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
h. Total, nonfederal performers (rows c–g)	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
i. Total, all performers	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
<i>Cross check: totals in row i above should match the FY 2023 amounts from question 5, rows a, b, c, d, and e, and question 3, rows b and c, displayed here.</i>	Q5.a(1) value	Q5.b(1) value	Q5.c(1) value	Q5.d(1) value	Q5.e(1) value	Q3.b(a) value	Q3.c(a) value

OSD = Operational system development (Budget Activity 7).

If needed, use the space below to provide clarification for the data reported in this question.

10 FY 2024 RDT&E and R&D plant obligations by performer and type of work

For each of the following types of R&D performers, what are your agency’s estimated obligations for RDT&E by type of work and for R&D plant in FY 2024?

- Report obligations in terms of the immediate recipient, even if funds were later passed on to subgrantees or subcontractors.
- See question 9 for definitions of R&D performers.

RDT&E Obligations (FY 2024 Estimated)
(Round to the nearest dollar)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
R&D performers	Basic research (BA 1)	Applied research (BA 2)	Advanced technology development (BA 3)	Major systems development (BA 4–6)	OSD and software pilot programs (BA 7–8)	R&D plant	Total RDT&E and R&D plant
a. Federal	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
b. Federally Funded R&D Centers (FFRDCs)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
c. Businesses	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
d. Higher education (U.S. institutions only)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
e. Other nonprofits (i.e., other than higher education institutions; U.S. nonprofits only)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
f. State and local government	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
g. Non-U.S. performers	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
h. Total, nonfederal performers (rows c–g)	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
i. Total, all performers	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
<i>Cross check: totals in row i above should match the FY 2024 amounts from question 5, rows a, b, c, d, and e, and question 3, rows b and c displayed here.</i>	Q5.a(2) value	Q5.b(2) value	Q5.c(2) value	Q5.d(2) value	Q5.e(2) value	Q3.b(b) value	Q3.c(b) value

OSD = Operational system development (Budget Activity 7).

If needed, use the space below to provide clarification for the data reported in this question.

11 FY 2023 R&D obligations to nonfederal performers by type of agreement

What were your agency’s R&D obligations to nonfederal performers in FY 2023 by the following types of agreement?

Include only nonfederal performers:

- Businesses (question 9 row c)
- Higher education (question 9 row d)
- Other nonprofits (question 9 row e)
- State and local governments (question 9 row f)
- Non-U.S. performers (question 9 row g)

Exclude R&D obligations to intramural performers:

- R&D obligations to federal performers (question 9 row a)
- R&D obligations to FFRDCs (question 9 row b)
- Operational system development and software and digital technology pilot programs (budget activities 7–8)

Contracts and other transactions: Contracts are legal commitments in which a good or service is provided by the external performer that benefits your agency. Your agency specifies the deliverables and gains the rights to results. These should be consistent with OMB Object Class 25.5, research and development contracts. See OMB Circular A-11, Section 83.6, Schedule O. For the purpose of this survey, also include Other Transaction (OT) agreements for R&D.

Grants and cooperative agreements: Grants are legal agreements to provide funding by your agency to support a specific purpose, but not to acquire property and services for your agency. Substantial involvement from your agency is not expected. For the purpose of this survey, also include cooperative agreements (e.g., CRADAs).

**R&D Obligations to Nonfederal Performers
(FY 2023 Actual)
(Round to the nearest dollar)**

Type of agreement	(1) R&D conduct (BA 1–6)	(2) R&D plant	(3) Total R&D conduct and plant
a. Contracts and other transactions	\$ _____	\$ _____	TOTAL
b. Grants and cooperative agreements	\$ _____	\$ _____	TOTAL
c. Total for nonfederal performers	TOTAL	TOTAL	TOTAL
<i>Cross check: totals in row c above should match the totals for nonfederal performers from question 9, row h, columns 1–4 and 6, displayed here.</i>	Q9.h(1) + Q9.h(2) + Q9.h(3) + Q9.h(4) value	Q9.h(6) value	<i>Total of question 9, row h, sum of columns 1–4 + 6 values</i>

If needed, use the space below to provide clarification for the data reported in this question.

12 FY 2023 R&D agreements with other federal agencies

How much of your agency's R&D obligations were provided to other federal agencies outside your department in FY 2023?

Include:

- All obligations which your agency provided to other federal agencies through interagency agreements or other similar transactions to conduct R&D on behalf of your agency.

Exclude:

- Operational system development and software and digital technology pilot programs (budget activities 7–8).
- Transfers to another agency for use of another agency's sponsored FFRDC. Report those directly as FFRDC amounts in questions 9 and 18.

**R&D Obligations to Other Federal Performers
(FY 2023 Actual)
(Round to the nearest dollar)**

Federal agency to whom funds were provided	(a) R&D conduct (BA 1–6)	(b) R&D plant	(c) Total R&D conduct and plant
1. Department of Agriculture	\$ _____	\$ _____	TOTAL
2. Department of Commerce	\$ _____	\$ _____	TOTAL
3. Department of Defense			
a. Defense Advanced Research Projects Agency	\$ _____	\$ _____	TOTAL
b. Defense Health Agency	\$ _____	\$ _____	TOTAL
c. Department of the Air Force	\$ _____	\$ _____	TOTAL
d. Department of the Army	\$ _____	\$ _____	TOTAL
e. Department of the Navy	\$ _____	\$ _____	TOTAL
f. Space Force	\$ _____	\$ _____	TOTAL
g. Other DOD	\$ _____	\$ _____	TOTAL
4. Department of Education	\$ _____	\$ _____	TOTAL
5. Department of Energy	\$ _____	\$ _____	TOTAL
6. Department of Health and Human Services	\$ _____	\$ _____	TOTAL
7. Department of Homeland Security	\$ _____	\$ _____	TOTAL
8. Department of the Interior	\$ _____	\$ _____	TOTAL
9. Department of Justice	\$ _____	\$ _____	TOTAL
10. Department of Labor	\$ _____	\$ _____	TOTAL
11. Department of State	\$ _____	\$ _____	TOTAL

➔ Question 12 continues on the next page.

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12 FY 2023 R&D agreements with other federal agencies (continued)

**R&D Obligations to Other Federal Performers
(FY 2023 Actual)
(Round to the nearest dollar)**

	(a)	(b)	(c)
Federal agency to whom funds were provided	R&D conduct (BA 1–6)	R&D plant	Total R&D conduct and plant
12. Department of Transportation	\$ _____	\$ _____	TOTAL
13. Department of the Treasury	\$ _____	\$ _____	TOTAL
14. Department of Veterans Affairs	\$ _____	\$ _____	TOTAL
15. Agency for Global Media	\$ _____	\$ _____	TOTAL
16. Agency for International Development	\$ _____	\$ _____	TOTAL
17. Appalachian Regional Commission	\$ _____	\$ _____	TOTAL
18. Consumer Product Safety Commission	\$ _____	\$ _____	TOTAL
19. Environmental Protection Agency	\$ _____	\$ _____	TOTAL
20. Federal Trade Commission	\$ _____	\$ _____	TOTAL
21. Library of Congress	\$ _____	\$ _____	TOTAL
22. National Aeronautics and Space Administration	\$ _____	\$ _____	TOTAL
23. National Archives and Records Administration	\$ _____	\$ _____	TOTAL
24. National Science Foundation	\$ _____	\$ _____	TOTAL
25. Nuclear Regulatory Commission	\$ _____	\$ _____	TOTAL
26. Postal Service	\$ _____	\$ _____	TOTAL
27. RESTORE Act Centers of Excellence Research Grants Program	\$ _____	\$ _____	TOTAL
28. Smithsonian Institution	\$ _____	\$ _____	TOTAL
29. Social Security Administration	\$ _____	\$ _____	TOTAL
30. Tennessee Valley Authority	\$ _____	\$ _____	TOTAL
31. Other department/agency (describe in text box below)	\$ _____	\$ _____	TOTAL
32. Total R&D obligations to other federal performers	TOTAL	TOTAL	TOTAL
<i>Cross check: totals in row 32(a) above should be equal to or less than the sum of question 9, row a, columns 1, 2, 3, and 4; the total in row 32(b) should be equal to or less than the amount in question 9, row a, column 6; and the total in row 32(c) should be equal to or less than the sum of question 9, row a, columns 1–4 plus 6 displayed here.</i>	Q9.a(1) + Q9.a(2) + Q9.a(3) + Q9.a(4) value	Q9.a(6) value	<i>Total of question 9.a, row a, sum of columns 1–4 + 6 values</i>

If needed, use the space below to provide clarification for the data reported in this question.

13 FY 2023 obligations for R&D conduct by performer and state

What were your agency’s obligations for R&D conduct (budget activities 1–6) to the following types of performers by state in FY 2023?

- Exclude operational system development and software and digital technology pilot programs (budget activities 7–8). These will be reported in question 14.
- If the location of performance is not available, use the state in which the performing organization’s headquarters is located.
- **Change for Volume 73:** Rows have been added to collect obligations by type of performer for American Samoa, Guam, the Northern Mariana Islands, and the U.S. Virgin Islands (see rows 52–57) instead of grouping these under Other U.S. territories as had been done in previous years. Other U.S. territories now include only Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Marshall Islands, Navassa Island, Palmyra Atoll, and Wake Island.

R&D Obligations for R&D Conduct (FY 2023 Actual)
(Round to the nearest dollar)

State	(a) Federal	(b) FFRDCs	(c) Businesses	(d) Higher education	(e) Other nonprofits	(f) State and local government	(g) Total R&D conduct in state (BA 1–6)
1. Alabama	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
2. Alaska	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
3. Arizona	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
4. Arkansas	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
5. California	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
6. Colorado	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
7. Connecticut	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
8. Delaware	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
9. District of Columbia	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
10. Florida	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
11. Georgia	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
12. Hawaii	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
13. Idaho	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
14. Illinois	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
15. Indiana	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
16. Iowa	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
17. Kansas	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
18. Kentucky	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL

→ Question 13 continues on the next page.

13 FY 2023 obligations for R&D conduct by performer and state (continued)

**R&D Obligations for R&D Conduct (FY 2023 Actual)
(Round to the nearest dollar)**

State	(a) Federal	(b) FFRDCs	(c) Businesses	(d) Higher education	(e) Other nonprofits	(f) State and local government	(g) Total R&D conduct in state (BA 1–6)
19. Louisiana	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
20. Maine	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
21. Maryland	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
22. Massachusetts	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
23. Michigan	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
24. Minnesota	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
25. Mississippi	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
26. Missouri	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
27. Montana	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
28. Nebraska	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
29. Nevada	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
30. New Hampshire	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
31. New Jersey	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
32. New Mexico	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
33. New York	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
34. North Carolina	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
35. North Dakota	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
36. Ohio	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
37. Oklahoma	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
38. Oregon	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
39. Pennsylvania	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
40. Rhode Island	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
41. South Carolina	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
42. South Dakota	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
43. Tennessee	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
44. Texas	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL

➔ Question 13 continues on the next page.

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13 FY 2023 obligations for R&D conduct by performer and state (continued)

R&D Obligations for R&D Conduct (FY 2023 Actual)
(Round to the nearest dollar)

State	(a) Federal	(b) FFRDCs	(c) Businesses	(d) Higher education	(e) Other nonprofits	(f) State and local government	(g) Total R&D conduct in state (BA 1–6)
45. Utah	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
46. Vermont	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
47. Virginia	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
48. Washington	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
49. West Virginia	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
50. Wisconsin	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
51. Wyoming	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
52. American Samoa	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
53. Guam	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
54. Northern Mariana Islands	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
55. Puerto Rico	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
56. U.S. Virgin Islands	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
57. Other U.S. territories	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
58. Offices abroad • R&D performed or administered in foreign countries by the U.S. government	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
59. Undistributed • Includes DOD obligations for which location of performance cannot be reported	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
60. Total	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
<i>R&D conduct cross check: totals in row 60 above should match the totals from question 9, rows a, b, c, d, e, and f, sum of columns 1–4 displayed here.</i>	Q9.a(1) + Q9.a(2) + Q9.a(3) + Q9.a(4) value	Q9.b(1) + Q9.b(2) + Q9.b(3) + Q9.b(4) value	Q9.c(1) + Q9.c(2) + Q9.c(3) + Q9.c(4) value	Q9.d(1) + Q9.d(2) + Q9.d(3) + Q9.d(4) value	Q9.e(1) + Q9.e(2) + Q9.e(3) + Q9.e(4) value	Q9.f(1) + Q9.f(2) + Q9.f(3) + Q9.f(4) value	<i>Total of question 9, rows a–f, sum of columns 1–4 values</i>

If needed, use the space below to provide clarification for the data reported in this question.

14 FY 2023 obligations for operational system development (OSD) and software and digital technology pilot programs (SDTPP) by performer and state

What were your agency’s obligations for operational system development and software and digital technology pilot programs (budget activities 7–8) to the following types of performers by state in FY 2023?

- If the location of performance is not available, use the state in which the performing organization’s headquarters is located.
- **Change for Volume 73:** Rows have been added to collect obligations by type of performer for American Samoa, Guam, the Northern Mariana Islands, and the U.S. Virgin Islands (see rows 52–57) instead of grouping these under Other U.S. territories as had been done in previous years. Other U.S. territories now include only Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Marshall Islands, Navassa Island, Palmyra Atoll, and Wake Island.

R&D Obligations for OSD and SDTPP (FY 2023 Actual)
(Round to the nearest dollar)

State	(a) Federal	(b) FFRDCs	(c) Businesses	(d) Higher education	(e) Other nonprofits	(f) State and local government	(g) Total OSD and SDTPP in state (BA 7–8)
1. Alabama	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
2. Alaska	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
3. Arizona	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
4. Arkansas	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
5. California	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
6. Colorado	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
7. Connecticut	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
8. Delaware	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
9. District of Columbia	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
10. Florida	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
11. Georgia	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
12. Hawaii	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
13. Idaho	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
14. Illinois	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
15. Indiana	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
16. Iowa	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
17. Kansas	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
18. Kentucky	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL

➔ Question 14 continues on the next page.

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14 FY 2023 obligations for operational system development (OSD) and software and digital technology pilot programs (SDTPP) by performer and state (continued)

R&D obligations for OSD and SDTPP (FY 2023 Actual)
(Round to the nearest dollar)

State	(a) Federal	(b) FFRDCs	(c) Businesses	(d) Higher education	(e) Other nonprofits	(f) State and local government	(g) Total OSD and SDTPP in state (BA 7–8)
19. Louisiana	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
20. Maine	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
21. Maryland	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
22. Massachusetts	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
23. Michigan	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
24. Minnesota	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
25. Mississippi	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
26. Missouri	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
27. Montana	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
28. Nebraska	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
29. Nevada	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
30. New Hampshire	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
31. New Jersey	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
32. New Mexico	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
33. New York	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
34. North Carolina	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
35. North Dakota	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
36. Ohio	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
37. Oklahoma	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
38. Oregon	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
39. Pennsylvania	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
40. Rhode Island	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
41. South Carolina	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
42. South Dakota	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
43. Tennessee	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
44. Texas	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL

➔ Question 14 continues on the next page.

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14 FY 2023 obligations for operational system development (OSD) and software and digital technology pilot programs (SDTPP) by performer and state (continued)

R&D obligations for OSD and SDTPP (FY 2023 Actual)
(Round to the nearest dollar)

State	(a) Federal	(b) FFRDCs	(c) Businesses	(d) Higher education	(e) Other nonprofits	(f) State and local government	(g) Total OSD and SDTPP in state (BA 7–8)
45. Utah	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
46. Vermont	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
47. Virginia	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
48. Washington	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
49. West Virginia	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
50. Wisconsin	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
51. Wyoming	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
52. American Samoa	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
53. Guam	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
54. Northern Mariana Islands	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
55. Puerto Rico	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
56. U.S. Virgin Islands	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
57. Other U.S. territories	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
58. Offices abroad • R&D performed or administered in foreign countries by the U.S. government	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
59. Undistributed • Includes DOD obligations for which location of performance cannot be reported	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
60. Total for OSD and SDTPP	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
<i>OSD and SDTPP cross check: totals in row 60 above should match the totals from question 9, rows a, b, c, d, e, and f, column 5 displayed here.</i>	Q9.a(5) value	Q9.b(5) value	Q9.c(5) value	Q9.d(5) value	Q9.e(5) value	Q9.f(5) value	<i>Total of question 9, rows a–f, column 5 values</i>

If needed, use the space below to provide clarification for the data reported in this question.

15 FY 2023 R&D plant obligations by performer and state

What were your agency’s obligations for R&D plant to the following types of performers by state in FY 2023?

- If the location of performance is not available, use the state in which the performing organization’s headquarters is located.

**R&D Plant Obligations (FY 2023 Actual)
(Round to the nearest dollar)**

State	(a) Federal	(b) FFRDCs	(c) Businesses	(d) Higher education	(e) Other nonprofits	(f) State and local government	(g) Total R&D plant in state
1. Alabama	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
2. Alaska	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
3. Arizona	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
4. Arkansas	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
5. California	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
6. Colorado	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
7. Connecticut	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
8. Delaware	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
9. District of Columbia	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
10. Florida	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
11. Georgia	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
12. Hawaii	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
13. Idaho	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
14. Illinois	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
15. Indiana	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
16. Iowa	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
17. Kansas	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
18. Kentucky	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
19. Louisiana	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL

→ Question 15 continues on the next page.

15 FY 2023 R&D plant obligations by performer and state (continued)

**R&D Plant Obligations (FY 2023 Actual)
(Round to the nearest dollar)**

State	(a) Federal	(b) FFRDCs	(c) Businesses	(d) Higher education	(e) Other nonprofits	(f) State and local government	(g) Total R&D plant in state
20. Maine	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
21. Maryland	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
22. Massachusetts	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
23. Michigan	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
24. Minnesota	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
25. Mississippi	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
26. Missouri	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
27. Montana	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
28. Nebraska	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
29. Nevada	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
30. New Hampshire	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
31. New Jersey	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
32. New Mexico	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
33. New York	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
34. North Carolina	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
35. North Dakota	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
36. Ohio	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
37. Oklahoma	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
38. Oregon	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
39. Pennsylvania	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
40. Rhode Island	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
41. South Carolina	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
42. South Dakota	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
43. Tennessee	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL

→ Question 15 continues on the next page.

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15 FY 2023 R&D plant obligations by performer and state (continued)

R&D Plant Obligations (FY 2023 Actual)
(Round to the nearest dollar)

State	(a) Federal	(b) FFRDCs	(c) Businesses	(d) Higher education	(e) Other nonprofits	(f) State and local government	(g) Total R&D plant in state
44. Texas	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
45. Utah	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
46. Vermont	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
47. Virginia	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
48. Washington	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
49. West Virginia	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
50. Wisconsin	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
51. Wyoming	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
52. American Samoa	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
53. Guam	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
54. Northern Mariana Islands	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
55. Puerto Rico	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
56. U.S. Virgin Islands	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
57. Other U.S. territories	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
58. Offices abroad • R&D performed or administered in foreign countries by the U.S. government	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
59. Undistributed • Includes DOD obligations for which location of performance cannot be reported	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
60. Total for R&D plant	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
<i>R&D plant cross check: totals in row 60 above should match the totals from question 9, rows a, b, c, d, e, and f, column 6, displayed here.</i>	Q9.a(6) value	Q9.b(6) value	Q9.c(6) value	Q9.d(6) value	Q9.e(6) value	Q9.f(6) value	<i>Total of question 9, rows a–f, column 6 values</i>

If needed, use the space below to provide clarification for the data reported in this question.

16 FY 2023 R&D conduct and plant obligations to non-U.S. performers by country

What were your agency’s obligations for R&D conduct and R&D plant to non-U.S. performers of R&D by country in FY 2023?

- Report based on the country of the R&D performing organization. If an R&D obligation was performed in multiple countries, then prorate the funding based on the countries involved.

Include:

- Obligations to foreign businesses and governments.
- Obligations to foreign higher education organizations.
- Obligations to foreign nonprofits.

Exclude:

- Obligations for operational system development and software and digital technology pilot programs (budget activities 7–8).
- Obligations to U.S. higher education institutions.

**R&D Obligations to Non-U.S. Performers
(FY 2023 Actual)
(Round to the nearest dollar)**

International organization or country	(1) R&D conduct (BA 1–6)	(2) R&D plant	(3) Total R&D conduct and plant
a. International organizations (such as North Atlantic Treaty Organization (NATO), United Nations Educational, Scientific, and Cultural Organization (UNESCO), and the World Health Organization (WHO)).	\$ _____	\$ _____	TOTAL
b. Report individually for each country, using the search box on the web questionnaire.	\$ _____	\$ _____	TOTAL
c. Total to non-U.S. performers	TOTAL	TOTAL	TOTAL
<i>Cross check: totals in row c above should match the amounts from question 9, row g, columns 1–4, and column 6 displayed here.</i>	<i>Q9.g(1) + Q9.g(2) + Q9.g(3) + Q9.g(4) value</i>	<i>Q9.g(6) value</i>	<i>Total of question 9, row g, sum of columns 1–4 + 6 values</i>

If needed, use the space below to provide clarification for the data reported in this question.

17 FY 2023 obligations for R&D conduct to U.S. higher education institutions by type of work and detailed field of R&D

What were your agency’s obligations to U.S. higher education institutions for basic research, applied research, and experimental development in the following fields of R&D in FY 2023?

- Experimental development includes advanced technology development (budget activity 3) and major systems development (budget activities 4–6). EXCLUDE operational system development and software and digital technology pilot programs (budget activities 7–8).
- If an obligation was intended to support R&D in multiple fields (i.e., interdisciplinary research), please prorate the obligation for each field involved when possible. Do not double-count funds across multiple fields.
- Examples of fields and disciplines are provided in the Reference Materials section on the Home page of the survey website.

**R&D Obligations to U.S. Higher Education Institutions
(FY 2023 Actual)
(Round to the nearest dollar)**

Field of R&D	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Experimental development (BA 3–6)	(d) Total R&D conduct
a. Computer and information sciences	\$ _____	\$ _____	\$ _____	TOTAL
b. Geosciences, atmospheric sciences, and ocean sciences				
1. Atmospheric science and meteorology	\$ _____	\$ _____	\$ _____	TOTAL
2. Geological and earth sciences	\$ _____	\$ _____	\$ _____	TOTAL
3. Ocean sciences and marine sciences	\$ _____	\$ _____	\$ _____	TOTAL
4. Other geosciences, atmospheric sciences, and ocean sciences	\$ _____	\$ _____	\$ _____	TOTAL
5. Total geosciences, atmospheric sciences, and ocean sciences	TOTAL	TOTAL	TOTAL	TOTAL
c. Life sciences				
1. Agricultural sciences	\$ _____	\$ _____	\$ _____	TOTAL
2. Biological and biomedical sciences	\$ _____	\$ _____	\$ _____	TOTAL
3. Health sciences	\$ _____	\$ _____	\$ _____	TOTAL
4. Natural resources and conservation	\$ _____	\$ _____	\$ _____	TOTAL
5. Other life sciences	\$ _____	\$ _____	\$ _____	TOTAL
6. Total life sciences	TOTAL	TOTAL	TOTAL	TOTAL
d. Mathematics and statistics	\$ _____	\$ _____	\$ _____	TOTAL
e. Physical sciences				
1. Astronomy and astrophysics	\$ _____	\$ _____	\$ _____	TOTAL
2. Chemistry	\$ _____	\$ _____	\$ _____	TOTAL
3. Materials science	\$ _____	\$ _____	\$ _____	TOTAL
4. Physics	\$ _____	\$ _____	\$ _____	TOTAL
5. Other physical sciences	\$ _____	\$ _____	\$ _____	TOTAL
6. Total physical sciences	TOTAL	TOTAL	TOTAL	TOTAL

→ Question 17 continues on the next page.

17 FY 2023 obligations for R&D conduct to U.S. higher education institutions by type of work and detailed field of R&D (continued)

**R&D Obligations to U.S. Higher Education Institutions
(FY 2023 Actual)
(Round to the nearest dollar)**

Field of R&D	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Experimental development (BA 3–6)	(d) Total R&D conduct
f. Psychology				
1. Biological aspects	\$ _____	\$ _____	\$ _____	TOTAL
2. Social aspects	\$ _____	\$ _____	\$ _____	TOTAL
3. Other psychological sciences	\$ _____	\$ _____	\$ _____	TOTAL
4. Total psychology	TOTAL	TOTAL	TOTAL	TOTAL
g. Social sciences				
1. Anthropology	\$ _____	\$ _____	\$ _____	TOTAL
2. Economics	\$ _____	\$ _____	\$ _____	TOTAL
3. Political science and government	\$ _____	\$ _____	\$ _____	TOTAL
4. Sociology, demography, and population studies	\$ _____	\$ _____	\$ _____	TOTAL
5. Other social sciences	\$ _____	\$ _____	\$ _____	TOTAL
6. Total social sciences	TOTAL	TOTAL	TOTAL	TOTAL
h. Engineering				
1. Aerospace, aeronautical, and astronautical engineering	\$ _____	\$ _____	\$ _____	TOTAL
2. Bioengineering and biomedical engineering	\$ _____	\$ _____	\$ _____	TOTAL
3. Chemical engineering	\$ _____	\$ _____	\$ _____	TOTAL
4. Civil engineering	\$ _____	\$ _____	\$ _____	TOTAL
5. Electrical, electronics, and communications engineering	\$ _____	\$ _____	\$ _____	TOTAL
6. Industrial and manufacturing engineering	\$ _____	\$ _____	\$ _____	TOTAL
7. Mechanical engineering	\$ _____	\$ _____	\$ _____	TOTAL
8. Metallurgical and materials engineering	\$ _____	\$ _____	\$ _____	TOTAL
9. Other engineering	\$ _____	\$ _____	\$ _____	TOTAL
10. Total engineering	TOTAL	TOTAL	TOTAL	TOTAL

→ Question 17 continues on the next page.

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17 FY 2023 obligations for R&D conduct to U.S. higher education institutions by type of work and detailed field of R&D (continued)

**R&D Obligations to U.S. Higher Education Institutions
(FY 2023 Actual)
(Round to the nearest dollar)**

Field of R&D	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Experimental development (BA 3–6)	(d) Total R&D conduct
i. Other fields				
1. Business management and business administration	\$ _____	\$ _____	\$ _____	TOTAL
2. Communication and communications technologies	\$ _____	\$ _____	\$ _____	TOTAL
3. Education research	\$ _____	\$ _____	\$ _____	TOTAL
4. Humanities	\$ _____	\$ _____	\$ _____	TOTAL
5. Law	\$ _____	\$ _____	\$ _____	TOTAL
6. Social work	\$ _____	\$ _____	\$ _____	TOTAL
7. Visual and performing arts	\$ _____	\$ _____	\$ _____	TOTAL
8. All other fields	\$ _____	\$ _____	\$ _____	TOTAL
9. Total other fields	TOTAL	TOTAL	TOTAL	TOTAL
j. Total for U.S. higher education institutions, all fields of R&D conduct	TOTAL	TOTAL	TOTAL	TOTAL
<i>Cross check: totals in row j above should match the amounts from question 9, row d, columns 1, 2, 3, and 4 displayed here.</i>	<i>Q9.d(1) value</i>	<i>Q9.d(2) value</i>	<i>Q9.d(3) + Q9.d(4) value</i>	<i>Total of question 9, row d, sum of columns 1–4 values</i>

If needed, use the space below to provide clarification for the data reported in this question.

18 FY 2023 RDT&E and R&D plant obligations to individual FFRDCs by type of work

What were your agency’s obligations to all FFRDCs by type of RDT&E and for R&D plant in FY 2023?

- Include your agency's obligations to all FFRDCs, regardless of whether your agency sponsors the FFRDC.
- Information on each FFRDC is available at <https://www.nsf.gov/statistics/ffrdclist/>; besides an alphabetical list of FFRDCs, there are tabs for Sponsoring agency and Administrator type.

RDT&E Obligations to FFRDCs (FY 2023 Actual)
(Round to the nearest dollar)

FFRDC	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Advanced technology development (BA 3)	(d) Major systems development (BA 4–6)	(e) OSD and software pilot programs (BA 7–8)	(f) R&D plant	(g) Total RDT&E and R&D plant
1. Aerospace Federally Funded Research and Development Center (El Segundo, CA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
2. Ames Laboratory (Ames, IA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
3. Argonne National Laboratory (Argonne, IL)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
4. Arroyo Center (Santa Monica, CA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
5. Brookhaven National Laboratory (Upton, NY)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
6. Center for Advanced Aviation System Development (McLean, VA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
7. Center for Communications and Computing (Alexandria, VA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
8. Center for Enterprise Modernization (McLean, VA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
9. Center for Naval Analyses (Arlington, VA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____

→ Question 18 continues on the next page.

18 FY 2023 RDT&E and R&D plant obligations to individual FFRDCs by type of work (continued)

**RDT&E Obligations to FFRDCs (FY 2023 Actual)
(Round to the nearest dollar)**

FFRDC	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Advanced technology development (BA 3)	(d) Major systems development (BA 4–6)	(e) OSD and software pilot programs (BA 7–8)	(f) R&D plant	(g) Total RDT&E and R&D plant
10. Center for Nuclear Waste Regulatory Analyses (San Antonio, TX)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
11. CMS Alliance to Modernize Healthcare (Baltimore, MD)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
12. Fermi National Accelerator Laboratory (Batavia, IL)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
13. Frederick National Laboratory for Cancer Research (Frederick, MD)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
14. Green Bank Observatory (Green Bank, WV)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
15. Homeland Security Operational Analysis Center (Arlington, VA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
16. Homeland Security Systems Engineering and Development Institute (McLean, VA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
17. Idaho National Laboratory (Idaho Falls, ID)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
18. Jet Propulsion Laboratory (Pasadena, CA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
19. Lawrence Berkeley National Laboratory (Berkeley, CA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL

→ Question 18 continues on the next page.

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18 FY 2023 RDT&E and R&D plant obligations to individual FFRDCs by type of work (continued)

**RDT&E obligations to FFRDCs (FY 2023 Actual)
(Round to the nearest dollar)**

FFRDC	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Advanced technology development (BA 3)	(d) Major systems development (BA 4–6)	(e) OSD and software pilot programs (BA 7–8)	(f) R&D plant	(g) Total RDT&E and R&D plant
20. Lawrence Livermore National Laboratory (Livermore, CA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
21. Lincoln Laboratory (Lexington, MA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
22. Los Alamos National Laboratory (Los Alamos, NM)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
23. National Biodefense Analysis and Countermeasures Center (Frederick, MD)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
24. National Center for Atmospheric Research (Boulder, CO)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
25. National Cybersecurity Center of Excellence (Rockville, MD)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
26. National Defense Research Institute (Santa Monica, CA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
27. National Radio Astronomy Observatory (Charlottesville, VA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
28. National Renewable Energy Laboratory (Golden, CO)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
29. National Security Engineering Center -- Bedford, MA Laboratory	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
30. National Security Engineering Center -- McLean, VA Laboratory	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
31. National Solar Observatory (Boulder, CO)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL

→ Question 18 continues on the next page.

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18 FY 2023 RDT&E and R&D plant obligations to individual FFRDCs by type of work
(continued)

RDT&E obligations to FFRDCs (FY 2023 Actual)
(Round to the nearest dollar)

FFRDC	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Advanced technology develop- ment (BA 3)	(d) Major systems develop- ment (BA 4–6)	(e) OSD and software pilot programs (BA 7–8)	(f) R&D plant	(g) Total RDT&E and R&D plant
32. NSF's National Optical-Infrared Astronomy Research Laboratory (Tucson, AZ)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
33. Oak Ridge National Laboratory (Oak Ridge, TN)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
34. Pacific Northwest National Laboratory (Richland, WA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
35. Princeton Plasma Physics Laboratory (Princeton, NJ)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
36. Project Air Force (Santa Monica, CA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
37. Sandia National Laboratories (Albuquerque, NM)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
38. Savannah River National Laboratory (Aiken, SC)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
39. Science and Technology Policy Institute (Washington, DC)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
40. SLAC National Accelerator Laboratory (Menlo Park, CA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
41. Software Engineering Institute (Pittsburgh, PA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
42. Systems and Analyses Center (Alexandria, VA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
43. Thomas Jefferson National Accelerator Facility (Newport News, VA)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
44. Total to FFRDCs	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL

➔ Question 18 continues on the next page.

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18 FY 2023 RDT&E and R&D plant obligations to individual FFRDCs by type of work (continued)

**RDT&E Obligations to FFRDCs (FY 2023 Actual)
(Round to the nearest dollar)**

FFRDC	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Advanced technology development (BA 3)	(d) Major systems development (BA 4–6)	(e) OSD and software pilot programs (BA 7–8)	(f) R&D plant	(g) Total RDT&E and R&D plant
<i>Cross check: totals in row 44 above should match the amounts from question 9, row b, columns 1, 2, 3, 4, 5, 6, and 7 displayed here.</i>	<i>Q9.b(1) value</i>	<i>Q9.b(2) value</i>	<i>Q9.b(3) value</i>	<i>Q9.b(4) value</i>	<i>Q9.b(5) value</i>	<i>Q9.b(6) value</i>	<i>Q9.b(7) value</i>

OSD = Operational system development (Budget Activity 7).

If needed, use the space below to provide clarification for the data reported in this question.

19 FY 2023 RDT&E and R&D plant obligations to individual University Affiliated Research Centers (UARC)s by type of work

What were your agency’s obligations to all UARC)s by type of RDT&E and for R&D plant in FY 2023?

- Include your agency's obligations to all University Affiliated Research Centers (UARC)s. These obligations should also be entered in Question 20, either under these organization codes or combined with any other obligations to these universities.

RDT&E Obligations to UARC)s (FY 2023 Actual)
(Round to the nearest dollar)

UARC	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Advanced technology develop- ment (BA 3)	(d) Major systems develop- ment (BA 4–6)	(e) OSD and software pilot programs (BA 7–8)	(f) R&D plant	(g) Total RDT&E and R&D plant
1. Georgia Institute of Technology Georgia Tech Research Institute (Organization code 502546)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
2. Howard University Research Institute for Tactical Autonomy (Organization code 910235)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
3. Johns Hopkins University Applied Physics Laboratory (Organization code 500594)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
4. Massachusetts Institute of Technology Institute for Soldier Nanotechnologies (Organization code 502547)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
5. Pennsylvania State University Applied Research Laboratory (Organization code 502550)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
6. Stevens Institute of Technology Systems Engineering Research Center (Organization code 502555)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
7. University of Alaska Geophysical Detection of Nuclear Proliferation (Organization code 700110)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL

→ Question 19 continues on the next page.

19 FY 2023 RDT&E and R&D plant obligations to individual University Affiliated Research Centers (UARC)s by type of work

**RDT&E Obligations to UARCs (FY 2023 Actual)
(Round to the nearest dollar)**

UARC	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Advanced technology develop- ment (BA 3)	(d) Major systems develop- ment (BA 4–6)	(e) OSD and software pilot programs (BA 7–8)	(f) R&D plant	(g) Total RDT&E and R&D plant
8. University of California Santa Barbara Institute for Collaborative Biotechnologies (Organization code 502548)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
9. University of Hawaii at Manoa Applied Research Laboratory (Organization code 502551)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
10. University of Maryland College Park Applied Research Laboratory for Intelligence and Security (Organization code 502556)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
11. University of Nebraska National Strategic Research Institute (Organization code 502365)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
12. University of Southern California Institute for Creative Technologies (Organization code 502549)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
13. University of Texas at Austin Applied Research Laboratories (Organization code 502552)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
14. University of Washington Applied Physics Laboratory (Organization code 502553)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL
15. Utah State University Space Dynamics Laboratory (Organization code 502554)	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____	TOTAL

→ Question 19 continues on the next page.

19 FY 2023 RDT&E and R&D plant obligations to individual University Affiliated Research Centers (UARC) by type of work

**RDT&E Obligations to UARCs (FY 2023 Actual)
(Round to the nearest dollar)**

UARC	(a) Basic research (BA 1)	(b) Applied research (BA 2)	(c) Advanced technology develop- ment (BA 3)	(d) Major systems develop- ment (BA 4–6)	(e) OSD and software pilot programs (BA 7–8)	(f) R&D plant	(g) Total RDT&E and R&D plant
16. Total to UARCs	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
<i>Cross check: totals in row 16 above should be less than or equal to the amounts from question 9.d, columns 1, 2, 3, 4, 5, 6, and 7, displayed here.</i>	<i>Q9.d(1) value</i>	<i>Q9.d(2) value</i>	<i>Q9.d(3) value</i>	<i>Q9.d(4) value</i>	<i>Q9.d(5) value</i>	<i>Q9.d(6) value</i>	<i>Q9.d(7) value</i>

OSD = Operational system development (Budget Activity 7).

If needed, use the space below to provide clarification for the data reported in this question.

20 FY 2023 RDT&E obligations and science and engineering (S&E) support to individual U.S. higher education institutions and consortia

What were your agency’s obligations for RDT&E and science and engineering (S&E) support to U.S. higher education institutions in FY 2023?

Report all obligations in terms of the immediate recipient, even if these funds were later passed on to subgrantees or subcontractors.

Enter each organization code only once. Combine all obligations for that organization as a single entry.

Include:

- Awards to individuals. Report these in column 4, Research; column 9, S&E fellowships, traineeships, and training grants); or column 11, Other general support for S&E. If there is no institution name associated with the awards to individuals, please select "Institution unknown" for column 1.
- Awards to University Affiliated Research Centers (UARCs) can be listed individually (they have their own organization codes—see question 19) or included in the totals to the respective institutions of higher education.

Exclude:

- Obligations to FFRDCs, even those administered by universities, colleges, or university consortia. Report those on question 9, row b, and question 18.
- Obligations to foreign higher education institutions. Report those on question 9, row g (non-U.S. performers), and list the obligations by country on question 16.

Higher education institutions: Institutions that engage primarily in providing resident and/or accredited instruction for a not less than a 2-year program above the secondary school level that is acceptable for full credit toward a bachelor’s degree or that provide not less than a 1-year program of training above the secondary school level that prepares students for gainful employment in a recognized occupation. Included are colleges of liberal arts; schools of arts and sciences; professional schools, as in engineering and medicine, including hospitals, clinics, and research centers that are financial constituents of universities; and agricultural experiment stations.

NSF has also labeled some institutions that are technically nonprofits as higher education performers because they support a university or college. For example, Georgia Southern University Research and Service Foundation, Inc., Humboldt State University Sponsored Programs Foundation, or Research Foundation of the City University of New York. Check the type of organization in the *Organization Codes for Higher Education and Nonprofit Institutions* (downloadable from the Reference Materials section on the Home page of the survey website) or the organization search tool.

Consortia: Organizations formed by the membership of several institutions from one or more types of performers (i.e., higher education or nonprofit) in order to promote and support efforts to enhance knowledge in one or more disciplines. If a consortium’s members are not primarily academic or nonprofit, but the consortium is legally organized as a nonprofit, NSF classifies that consortium as a nonprofit institution. To find out the status of an institution for the purposes of this survey, use either *Organization Codes for Higher Education and Nonprofit Institutions* or the organization search tool.

Organization code: This code can be found in the organization search tool. (If you cannot find the organization, please contact survey support to have a code assigned.)

S&E fellowships, traineeships, and training grants: These types of support are primarily for the development of the scientific or technical workforce. Exclude awards supporting research; these should be reported as R&D conduct.

Facilities and equipment for instruction in S&E: Programs whose principal purpose is to provide support for construction, acquisition, renovation, modification, repair, or rental of facilities, land, works, or equipment, for use in S&E instruction. If the facilities or equipment are used for mixed purposes, report only the amount used for S&E instruction here.

→ Question 20 continues on the next page.

INFORMATION ONLY – DO NOT USE TO REPORT

NSF Survey of Federal Funds for Research and Development (DOD Form) – Volume 73 (FYs 2023–24)

20 FY 2023 RDT&E obligations and science and engineering (S&E) support to individual U.S. higher education institutions and consortia (continued)

Other general support for S&E: Activities that provide general or nonspecific support related to scientific research and education. These include projects awarded through the NIH Minority Biomedical Research Support for Undergraduate Colleges and NIH Biomedical Support Grants. Also includes S&E activities that cannot be assigned to one of the above categories, including support for scientific conferences, teacher institutes, and S&E activities for precollege and undergraduate students.

RDT&E Obligations to Individual U.S. Higher Education Institutions and Consortia (FY 2023 Actual)
(Round to the nearest dollar)

Institution information (1–3), RDT&E and R&D plant obligations (4–8), Obligations for S&E (not including RDT&E) (9–11)

(1) Institution or consortium name	(2) 6-digit organization code	(3) State	(4) Research (BA 1–2)	(5) Advanced technology development (BA 3)	(6) Major systems development (BA 4–6)	(7) Operational system development and software pilot programs (BA 7–8)	(8) R&D plant	(9) S&E fellowships, traineeships, and training grants	(10) Facilities and equipment for instruction in S&E	(11) Other general support for S&E
a. <input style="width: 90%;" type="text"/>	<input style="width: 90%;" type="text"/>	Autofill on website	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>
b. <input style="width: 90%;" type="text"/>	<input style="width: 90%;" type="text"/>	Autofill on website	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>
			TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL

<i>Cross check: totals across organizations should match amounts from question 9, row d, columns 1–2, 3, 4, 5, and 6 displayed here.</i>	Q9.d(1) + Q9.d(2)	Q9.d(3)	Q9.d(4)	Q9.d(5)	Q9.d(6)
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If needed, use the space below to provide clarification for the data reported in this question, including why it may not match your higher education totals from question 9.

21

FY 2023 RDT&E and R&D plant obligations to individual U.S. nonprofit organizations other than higher education institutions

What were your agency’s obligations for RDT&E and R&D plant to U.S. nonprofit organizations in FY 2023?

This question applies only if you are reporting RDT&E or R&D plant obligations to U.S. nonprofit organizations in question 9e.

Report all obligations in terms of the immediate recipient, even if these funds were later passed on to subgrantees or subcontractors.

Enter each organization code only once. Combine all obligations for that organization as a single entry.

Include:

- Obligations to nonprofit consortia. See question 20 for definitions of consortia. To find out the status of an institution for the purposes of this survey, use either *Organization Codes for Higher Education and Nonprofit Institutions* or the ORGANIZATION SEARCH TOOL.

Exclude:

- Support for science and engineering (S&E) other than RDT&E and R&D plant.
- Funds your agency transferred to other federal agencies, who then obligated the funds to nonprofit organizations.
- Obligations to FFRDCs, even those administered by other nonprofits. Report those on question 9, row b, and question 18.
- Obligations to foreign nonprofit institutions. Report those on question 9 row g. non-U.S. performers and list the obligations by country on question 16.

Nonprofit organization: A business granted tax-exempt status by the IRS. Nonprofits pay no income tax on the donations they receive or on any money that they earn through fundraising activities. Nonprofit organizations are sometimes called NPOs or 501(c) organizations, based on the section of the tax code that permits them to operate.

Organization code: This code can be found in the ORGANIZATION SEARCH TOOL. *(If you cannot find the organization code, please contact survey support to have one assigned.)*

→ Question 21 continues on the next page.

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NSF Survey of Federal Funds for Research and Development (DOD Form) – Volume 73 (FYs 2023–24)

21 FY 2023 RDT&E and R&D plant obligations to individual U.S. nonprofit organizations other than higher education institutions

**RDT&E Obligations to Other U.S. Nonprofit Institutions and Consortia
(FY 2023 Actual) (Round to the nearest dollar)**

(1) Organization or consortium name	(2) 6-digit organization code	(3) State	(4) Research (BA 1–2)	(5) Advanced technology development (BA 3)	(6) Major systems development (BA 4–6)	(7) Operational system development and software pilot programs (BA 7–8)	(8) R&D plant
a. <input style="width: 90%;" type="text"/>	<input style="width: 80%;" type="text"/>	Autofill on website	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>
b. <input style="width: 90%;" type="text"/>	<input style="width: 80%;" type="text"/>	Autofill on website	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>
c. <input style="width: 90%;" type="text"/>	<input style="width: 80%;" type="text"/>	Autofill on website	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>	\$ <input style="width: 80%;" type="text"/>
			TOTAL	TOTAL	TOTAL	TOTAL	TOTAL

<i>Cross check: totals across organizations should match amounts from question 9, row e, columns 1 plus 2, 3, 4, 5, and 6 displayed here.</i>	Q9.e(1) + Q9.e(2)	Q9.e(4)	Q9.e(5)	Q9.e(6)	Q9.e(7)
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If needed, use the space below to provide clarification for the data reported in this question, including why it may not match your other nonprofits totals from question 9.