



U.S. DEPARTMENT OF COMMERCE
U.S. CENSUS BUREAU

FORM
ABS-1 (04/04/2022)

2022 ANNUAL BUSINESS SURVEY

DUE DATE:

Need help or have questions?

- **Visit** <https://www.census.gov/abs/help>
- **Call** 1-888-824-9954, between 8 a.m. and 8 p.m., Eastern time, Monday through Friday.

¿Necesita ayuda?

Si usted habla español y necesita ayuda para completar su cuestionario, llame sin cargo alguno al 1-888-824-9954, entre las 8 a.m. y las 8 p.m., hora del Este, de lunes a viernes.

(Please correct any errors in this mailing address.)

YOUR RESPONSE IS REQUIRED BY LAW. Title 13, United States Code, Sections 8(b), 131, and 182; Title 42, United States Code, Section 1861-76 (National Science Foundation Act of 1950, as amended); and Section 505 within the America COMPETES Reauthorization Act of 2010, authorize this collection. Sections 224 and 225 of Title 13 require your response. The U.S. Census Bureau is required by Section 9 of Title 13 to keep your information confidential and use your responses only to produce statistics. The Census Bureau is not permitted to publicly release your responses in a way that could identify your business, organization, or institution. Per the Federal Cybersecurity Enhancement Act of 2015, your data are protected from cybersecurity risks through screening of the systems that transmit data.

COMPLETE THIS SURVEY ONLINE

- Go to: <https://portal.census.gov>

This survey is jointly conducted by the U.S. Census Bureau and the National Center for Science and Engineering Statistics (NCSES) within the National Science Foundation.



The next questions ask about research performed and/or funded by your organization. Please read the information below before continuing.

By research we mean...

For the purposes of this survey, research includes **research and experimental development**.

Research and experimental development comprise creative and systematic work to:

- Increase the stock of knowledge, including knowledge of humankind, culture, and society OR
- Devise new applications of available knowledge, including materials, products, devices, processes, systems, or services

Research activities must be...

- **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

May meet the criteria for research

- Laboratory or animal studies
- Clinical trials
- Prototype development
- Outcomes research
- Development/measurement of new methods to deliver/measure social service outcomes
- Policy research
- Humanities research
- Research traineeships
- Other experimental studies

Most likely do not meet the criteria for research

- Internal program monitoring or evaluation
- Public service grants or outreach programs
- Education or training programs
- Quality control testing
- Market research
- Management studies/efficiency surveys
- Literary, artistic, or historical projects, such as films, music, or books and other publications
- Feasibility studies, unless included as part of an overall research project

C.5 Research Performed by Your Organization

Did your organization perform research in FY 2021?

Include:

- Research performed by your organization’s employees or contract employees. (Contract employees are individuals contracted to work on projects otherwise fully performed by your organization’s staff.)

Exclude:

- Research performed outside your organization by subcontractors or subawardees. (**Report in C.6 Research Performed by Others** on page 22.)

Yes

No

If you would like to add additional detail or clarification to your response, please comment in the space provided below.



C.6 Research Performed by Others

Did your organization fund research performed by others outside your organization in FY 2021?

Include:

- All grants, contracts, subcontracts, and subawards awarded by your organization to external recipients to perform research

Exclude:

- Research performed by your organization’s employees
- Research performed by contract employees (Contract employees are individuals contracted to work on projects otherwise fully performed by your organization’s staff.)

Yes

No

If you would like to add additional detail or clarification to your response, please comment in the space provided below.

If you reported “No” for ‘C.5 Research Performed by Your Organization’ AND “No” for ‘C.6 Research Performed by Others,’ skip to ‘C.20 Burden Estimate’ on page 29.

If you reported “No” for ‘C.5 Research Performed by Your Organization’ AND “Yes” for ‘C.6 Research Performed by Others,’ skip to ‘C.16 Funding for Research Performed by Other Organizations’ on page 28.

All others continue to ‘C.7 Funding for Research Performed by This Organization.’

C.7 Funding for Research Performed by This Organization

In FY 2021, how much was spent on research performed within your organization?

Round to the nearest one thousand dollars. If none, report zero.

Include:

- Direct costs, such as salaries and wages, travel, equipment, supplies, consulting, and other expenditures directly supporting your organization’s research projects
- Indirect costs associated with research expenditures, such as general and administrative salaries and wages, fringe benefits, facility costs, depreciation, etc. These should be calculated using your organization’s applicable fringe, overhead, and General and Administrative (G&A) or Facilities and Administrative (F&A) rates

Exclude:

- Capital expenditures (i.e., costs for construction or renovation of facilities). Report Capital expenditures in ‘C.17 -C.19’ on pages 28-29.
- Payments/funds in excess of the actual cost of the research work performed (e.g., fees)
- Payments made by your organization to subcontractors or subawardees performing research outside your organization

Total

\$Bil.	Mil.	Thou.	Dol.
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/>

If you would like to add additional detail or clarification to your response, please comment in the space provided below.

If ‘C.7 Funding for Research Performed by This Organization’ are less than \$50,000, then skip to ‘C.20 Burden Estimate’ on page 29.



C.8 Research Funding Sources

How much of the 'C.7 Funding for Research Performed by This Organization' in funding for research performed by this organization came from each of the following sources?

Round to the nearest one thousand dollars. If none, report zero.

	\$Bil.	Mil.	Thou.	Dol.
a. Internal funds: Your organization's own funds from your endowment, general donations, or other unrestricted sources	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
b. Individual donors: Gifts designated by the donors for research.	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
c. Federal government: Any agency of the United States government. Include funds your organization received as a subcontractor or subawardee for research activities on federal projects	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
d. State and local government: Any state, county, municipality, or other local government entity in the United States.	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
e. Businesses: Domestic or foreign for-profit organizations. Report funds from a company's nonprofit foundation in Row f	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
f. Foundations: Domestic or foreign nonprofit grant-making organizations.	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
g. Universities: Domestic or foreign degree-granting institutions.	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
h. All other nonprofits: Domestic or foreign public charities and other nonprofit organizations not reported in Row f or g	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
i. Other, (specify) <input checked="" type="checkbox"/> All other sources not reported above. . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
<input type="text"/>				
Total	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0



C.9 Research Performance by Field

How much of the 'C.7 Funding for Research Performed by This Organization' in funding for research performed by this organization was spent in each of the following fields?

Round to the nearest one thousand dollars. If none, report zero.

<p>a. Agricultural Sciences and Natural Resources and Conservation: e.g., Agricultural sciences, Animal sciences, Applied horticulture, Fishing and fisheries science, Food science and technology, Forestry, Natural resources and conservation, Plant sciences, or Soil sciences</p>	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 12.5%;">\$Bil.</td> <td style="width: 12.5%;">Mil.</td> <td style="width: 12.5%;">Thou.</td> <td style="width: 12.5%;">Dol.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td>0 0 0</td> </tr> </table>	\$Bil.	Mil.	Thou.	Dol.				0 0 0
\$Bil.	Mil.	Thou.	Dol.						
			0 0 0						
<p>b. Biological, Biomedical, and Health Sciences: e.g., Biochemistry, biophysics, molecular biology; Biotechnology; Botany; Cell biology; Epidemiology; Genetics; Medicine; Neuroscience; Public health; Veterinary medicine; or Zoology</p>	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;">0 0 0</td> </tr> </table>				0 0 0				
			0 0 0						
<p>c. Engineering: e.g., Aerospace, aeronautical, and astronomical engineering; Bioengineering and biomedical engineering; Chemical engineering; Civil engineering; Electrical, electronic, and communications engineering; Industrial and manufacturing engineering; Mechanical engineering; or Metallurgical and materials engineering.</p>	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;">0 0 0</td> </tr> </table>				0 0 0				
			0 0 0						
<p>d. Geosciences, Atmospheric Sciences, and Ocean Sciences: e.g., Atmospheric sciences and meteorology, Geological and earth sciences, or Ocean and marine sciences</p>	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;">0 0 0</td> </tr> </table>				0 0 0				
			0 0 0						
<p>e. Mathematics, Statistics, and Computer and Information Sciences: e.g., Computer sciences, Information sciences, Information technology, Mathematics, or Statistics</p>	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;">0 0 0</td> </tr> </table>				0 0 0				
			0 0 0						
<p>f. Physical Sciences: e.g., Astronomy and astrophysics, Chemistry, Materials science, or Physics</p>	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;">0 0 0</td> </tr> </table>				0 0 0				
			0 0 0						
<p>g. Psychology and Social Sciences: e.g., Anthropology; Archaeology; City, urban, community, and regional planning; Criminology; Economics; Geography; Linguistics; Political science and government; Psychology; Public policy analysis; or Sociology, demography, and population studies</p>	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;">0 0 0</td> </tr> </table>				0 0 0				
			0 0 0						
<p>h. Humanities: e.g., English language and literature, letters; Foreign languages and literature; History; or Philosophy and religious studies.</p>	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;">0 0 0</td> </tr> </table>				0 0 0				
			0 0 0						
<p>i. Other Fields: e.g., Business management and business administration, Communication and communications technologies, Education, Law, Library science, Social work, or Visual and performing arts</p>	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;">0 0 0</td> </tr> </table>				0 0 0				
			0 0 0						
<p>Total</p>	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;"> </td> <td style="width: 12.5%;">0 0 0</td> </tr> </table>				0 0 0				
			0 0 0						



C.10 Research Performance by Type of Research

How much of the 'C.7 Funding for Research Performed by This Organization' in funding for research performed by this organization was for basic research, applied research, and experimental development?

Round to the nearest one thousand dollars. If none, report zero.

(1) Federal

(2) Nonfederal

(3) Total

a. **Basic research:** Experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.

\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.
			000				000				000

b. **Applied research:** Original investigation undertaken in order to acquire new knowledge. It is directed primarily towards a specific, practical aim or objective.

\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.
			000				000				000

c. **Experimental development:** Systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed to producing new products or processes or to improving existing products or processes.

\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.
			000				000				000

Total: Total for column (1) should equal the amount entered for 'C.8.a. Research Funding Sources – Federal Government.' Total for column (3) should equal the amount entered for 'C.7 Funding for Research Performed by This Organization.'

\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.
			000				000				000

If you would like to add additional detail or clarification to your response, please comment in the space provided below.

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



C.11 Research Performance by Type of Cost

How much of the 'C.7 Funding for Research Performed by This Organization' spent on research performed within your organization was for each of the following types of costs?

	\$Bil.	Mil.	Thou.	Dol.
a. Salaries, wages, and fringe benefits.	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
<ul style="list-style-type: none"> • Include costs for all compensation and benefits of employees that are included in the total reported on C.7. • Include payroll taxes, such as Social Security and medicare. 				
b. Depreciation and amortization on property, plant, equipment, and intangible assets	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
<ul style="list-style-type: none"> • Include depreciation on tangible research assets, such as buildings or equipment, as well as the amortization of intangible assets such as patents. 				
c. All other costs	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
<ul style="list-style-type: none"> • Include administrative and overhead costs clearly associated with your organization's research. 				
Total	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0

C.12 Research Employees for Nonprofit Organizations

Of the 'C.3 Number of Employees' employees reported, how many worked on research activities in FY 2021?

Include:

- Only your organization's paid employees.

Exclude:

- Contract employees. (Report in 'C.14 Research Contract Employees for Nonprofit Organizations.')

	Number
a. Researchers (including scientists, engineers, and their managers): Professionals engaged in the conception or creation of new knowledge.	<input type="text"/>
b. Research technicians: Staff who work under the supervision of researchers to conduct research activities	<input type="text"/>
c. Other support personnel (clerical and other): Staff who provide direct support services for the research project.	<input type="text"/>
Total	<input type="text"/>



C.13 Research Full-time Equivalents for Nonprofit Organizations

How many full-time equivalents (FTEs) worked on **research activities** in FY 2021?

FTE research personnel are calculated as the total working (paid) hours spent working on research during a specific reference period (usually a calendar year) divided by the number of hours representing a full-time schedule within the same period. Include only your organization's paid employees. For example, if you have three people working 20, 30, and 40 hours in a week on research activities and a full-time schedule is 40 hours a week at your organization, your research FTE calculation is $(20 + 30 + 40)/40 = 2.25$ FTE.

	Number of FTEs
a. Researchers (including scientists, engineers, and their managers): Professionals engaged in the conception or creation of new knowledge.	<input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
b. Research technicians: Staff who work under the supervision of researchers to conduct research activities.	<input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
c. Other support personnel (clerical and other): Staff who provide direct support services for the research project	<input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
Total	<input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>

C.14 Research Contract Employees for Nonprofit Organizations

a. Did any contract employees work on your **research activities** in FY 2021?

Contract employees are individuals contracted to work on projects otherwise fully performed by your organization staff.

- Yes
- No

b. If "Yes," how many contract employees worked on your **research activities** during FY 2021?

Employees

C.15 Research Volunteers for Nonprofit Organizations

a. Did any volunteers work on your **research activities** in FY 2021?

Volunteers are unpaid workers contributing appreciable and essential activity to research performed by your organization. Their research skills should be comparable to those of your employees. Individuals funded by other sources to conduct research at your organization should not be considered volunteers.

- Yes
- No

b. If "Yes," how many volunteers worked on your **research activities** during FY 2021? . . .

Number

If you reported "No" for 'C.6 Research Performed by Others,' skip to 'C.20 Burden Estimate' on page 29.



C.16 Funding for Research Performed by Other Organizations

In FY 2021, how much funding did your organization provide to others to perform research activities?

Include:

- All grants, contracts, subcontracts, and subawards awarded by your organization to external recipients to perform research.
- For multi-year awards, include only the amount paid to the external recipients in FY 2021.

Exclude:

- Research performed by contract employees.

a. **Research grants or contracts:** Include grants and contracts awarded by your organization to external recipients to perform independent research.

\$Bil.	Mil.	Thou.	Dol.
<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0

b. **Subcontracts and subawards:** Include subcontracts and subawards awarded by your organization to external recipients to support your research activities.

<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
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Total

<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
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If you would like to add additional detail or clarification to your response, please comment in the space provided below.

C.17 Total Capital Expenditures for Your Organization

What was the amount of your organization's capital expenditures in FY 2021?

Total

\$Bil.	Mil.	Thou.	Dol.
<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0

C.18 Total Capital Expenditures for Research Operations

How much of the 'C.17 Total Capital Expenditures for Your Organization' in capital expenditures was for research operations?

- Organizations should allocate capital expenditures that benefit both research and other operations on a reasonable basis.
- None of the costs reported here should be included in 'C.7 Funding for Research Performed by This Organization.'

Total

\$Bil.	Mil.	Thou.	Dol.
<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0



C.19 Capital Expenditures for Research Operations by Type of Cost

How much of the 'C.18 Total Capital Expenditures for Research Operations' in capital expenditures for research operations was for the following?

	\$Bil.	Mil.	Thou.	Dol.
a. Land acquisition.	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
b. Buildings and land improvement.	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
c. Equipment.	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
d. Capitalized software.	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
e. All other capital expenditures for research operations.	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0
Total	<input type="text"/>	<input type="text"/>	<input type="text"/>	0 0 0

C.20 Burden Estimate

What was the total amount of staff time it took your organization to complete this section?

Include:

- The time spent reading the instructions, working on the questions, and obtaining information.
- The time spent by all employees in collecting and providing this information.

Hours Minutes

<input type="text"/>	:	<input type="text"/>
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SECTION I: CONTACT INFORMATION

Enter the first and last name of the person who is filling out this survey. We request a telephone number so we can contact you if there is a question.

Contact Name

Title

Area code

Phone number

-

Ext.

Email address

Additional Remarks: Please use this space for any explanations that may be essential in understanding your reported data.

Thank you for completing the 2022 Annual Business Survey form.



Definitions**Domestic (or U.S.-located):**

Refers to a location in any of the U.S. 50 states and the District of Columbia.

Foreign parent (of a U.S.-located business):

The first entity outside the United States in an affiliate's ownership chain that has a direct or indirect investment interest of more than 50 percent of the affiliate's voting securities.

Intellectual property:

Includes patents, processes, and trade secrets; books and music; trademarks; recorded performances and events, such as radio and television programs and motion pictures; broadcast and recorded live performances and events and their content; general use computer software; franchise fees; and other (e.g., digital media).

Research and Development (R&D):

Research and development (R&D) comprise creative and systematic work undertaken in order to increase the stock of knowledge and to devise new applications of available knowledge.

The term R&D does NOT include expenditures for:

- Costs for routine product testing, quality control, and technical services unless they are an integral part of an R&D project
- Market research
- Efficiency surveys or management studies
- Literary, artistic, or historical projects, such as films, music, or books and other publications
- Prospecting or exploration for natural resources

R&D activity in software INCLUDES:

- Software development or improvement activities that expand scientific or technological knowledge
- Construction of new theories and algorithms in the field of computer science

R&D activity in software EXCLUDES:

- Software development that does not depend on a scientific or technological advance, such as
 - supporting or adapting existing systems
 - adding functionality to existing application programs
 - routine debugging of existing systems and software
- Creation of new software based on known methods and applications
- Conversion or translation of existing software and software languages
- Adaptation of a product to a specific client, unless knowledge that significantly improved the base program was added in that process



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