

**ATTACHMENT A**U.S. DEPARTMENT OF COMMERCE  
U.S. CENSUS BUREAUFORM  
**BRD-1** (08-30-2021) D4**2021 BUSINESS ENTERPRISE  
RESEARCH AND DEVELOPMENT SURVEY**

OMB No. 0607-0912: Approval Expires 02/28/2022

**DUE DATE:****Need help or have questions about filling out the form?****Visit** <https://www.census.gov/programs-surveys/brds/information.html>

Here, you can access question-by-question detailed instructions and learn more about the survey.

**Call** toll-free 1-800-416-3262, between 8:00 a.m. and 8:00 p.m. Eastern time, Monday through Friday.**Please file your form electronically** (see details below).

Or mail your completed form to:

U.S. CENSUS BUREAU  
1201 EAST 10th STREET  
JEFFERSONVILLE, IN  
47132-0001*(Please correct any errors in this mailing address)***INTERNET REPORTING OPTION AVAILABLE**  
**Please complete this survey online at: <https://portal.census.gov>****Authentication Code:**

**YOUR RESPONSE IS REQUIRED BY LAW.** Title 13, United States Code, Sections 8(b), 131, and 182, and Title 42, United States Code, Sections 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 can 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 your data.

**THIS COLLECTION HAS BEEN APPROVED** by the Office of Management and Budget (OMB). The eight-digit OMB approval number is 0607-0912 and appears at the upper right corner of this page. Without this approval, we could not conduct this survey.

We estimate this survey will take an average of 2 hours and 37 minutes to complete. More information about this estimate and an email address where you may write with comments is on the back of this form.

**THANK YOU – YOUR RESPONSE IS IMPORTANT.** Accurate and timely statistical information could not be produced without your cooperation and goodwill. Thank you.

*~ 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. ~*

# Table of Contents

This survey is divided into seven sections based on subject matter. You may need to collaborate with colleagues in different departments to complete all sections. The following table of contents summarizes the subject matter covered by each section and what is required to complete them.

## Section 1: Company Information . . . . . p.4

Topics include company ownership, business activities, revenues, and employees.

## Section 2: R&D Paid For by Your Company . . . . . p.8

Topics include geographic location and accounting details related to R&D expenses.

## Section 3: Costs Paid For by Others . . . . . p.19

Topics include customer-sponsored work and activities funded through grants and/or reimbursements.

## Section 4: Assets . . . . . p.35

Topics include company expenditures for property, plant, and equipment including capitalized software.

## Section 5: Management and Strategy of R&D . . . . . p.39

Topics include characteristics of R&D reported in Sections 2 and 3. Requires familiarity with the technical and strategic aspects of your company's R&D.

## Section 6: Human Resources . . . . . p.45

Topics include your company's employees, focusing on those who work on R&D activities.

## Section 7: Tax Topics . . . . . p.53

Topics include state and federal tax credits applied for by your company.

### Changes from the 2020 survey

Questions related to detail of R&D performed by others, as well as activities with academia were added to Section 2. Questions related to industry of business and specific federal agency funding R&D were added to Section 3. The Capital Expenditures section was renamed to Assets and questions were added related to assets. Questions that asked for percentage of R&D with specific application areas were added to Section 5. The Intellectual Property and Technology Transfer section was removed. For a list of specific changes go to <https://www.census.gov/programs-surveys/brds/about/faq.html>.

### Electronic materials

Electronic versions of the questionnaire and related information are available at <https://www.census.gov/programs-surveys/brds/information.html>.

Available materials include:

- PDF copy of the questionnaire
- Excel worksheets for each section that can be completed and uploaded
- Question-by-question instructions, definitions, and examples that provide clarification
- Answers to frequently asked questions, including how the data will be used

### Filing electronically

You may submit your survey online via a secure website. Online submission allows you to save the data as you go, so you can exit and resume later where you left off. It also allows you to save an electronic copy of your completed survey. To submit online, follow the instructions at <https://www.census.gov/programs-surveys/brds/information.html>.

## What is 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. This includes: a) activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses (basic research); b) activities aimed at solving a specific problem or meeting a specific commercial objective (applied research); and c) systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new products or processes or to improving existing products or processes (development). R&D includes both direct costs such as salaries of researchers as well as administrative and overhead costs clearly related to the company's R&D.

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

## Does R&D include development of software and Internet applications?

Research and development activity in software and Internet applications refers **only** to activities with an element of uncertainty and that are intended to close knowledge gaps and meet scientific and technological needs. Report in this survey all software R&D as defined here regardless of the eventual user (internal or external).

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, and
  - 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

## Reporting unit

The reporting unit is your company, including all subsidiaries and divisions regardless of location. Include only subsidiary companies where there is more than 50 percent ownership. If your company is owned by a foreign parent, the reporting unit for the survey is your U.S.-located company, including all your majority-owned subsidiaries and divisions regardless of location. For reporting purposes, your foreign parent and any foreign affiliates your company does not own should be treated the same as any business partner, customer, or supplier you do not own.

## Reporting period

Report data for the calendar year 2021, if possible, or for your company's fiscal year ending between April 2021 and March 2022.

## Estimates are acceptable

Please report all items to the best of your ability.

## To speak with a survey specialist, call 1-800-416-3262.

Survey specialists are available Monday through Friday, from 8:00 a.m. to 8:00 p.m. Eastern time, to help with any questions you may have.

# SECTION 1 Company Information

## 1-1 Has your company ceased operations?

Yes → Please provide the following information:

(MM) (DD) (YYYY)

Date your company ceased operations

**REPORTING INSTRUCTIONS:**

If your company ceased operations between April 1, 2021 and December 31, 2021, report only for the period January 1, 2021 to the date your company ceased operations. If your company ceased operations before April 1, 2021, complete Question 1-7 and return this form to the Census Bureau - you are not required to complete the rest of this survey.

No

## 1-2 Did another U.S. company own more than 50% of the voting interest in your company during 2021?

Yes → Please provide the following information:

Name of parent company

EIN of owner (9 digits)

Date parent company purchased your company (MM) (DD) (YYYY)

**Is the parent company a holding company or a private equity firm [shell company, investment company, and the like]?**

Yes

No

**REPORTING INSTRUCTIONS FOR U.S.-OWNED COMPANIES:**

If your company was purchased by a holding company or private equity firm you are required to complete the rest of this survey (regardless of purchase date). Otherwise, if your company was purchased between April 1, 2021 and December 31, 2021, report only for the period January 1, 2021 to the date of purchase. If your company was purchased before April 1, 2021 then complete Question 1-7 and return this form to the Census Bureau - you are not required to complete the rest of this survey unless your owner instructs you to complete this survey.

No

## 1-3 Will the information in this survey be reported for the 2021 calendar year?

Yes

No → Enter time period covered below:

(MM) (YYYY) (MM) (YYYY)

From      to

**1-4 Was your company a majority-owned subsidiary of a foreign company in 2021?**

Yes → **Please provide the following information:**

Name of parent company

**REPORTING INSTRUCTIONS FOR FOREIGN-OWNED COMPANIES:**

If your company is owned by a foreign parent, the reporting unit for the survey is your U.S.-located company, including all your majority-owned subsidiaries and divisions regardless of location. For reporting purposes, your foreign parent and any foreign affiliates your company does not own should be treated the same as any business partner, customer, or supplier you do not own.

If your company pays a foreign parent for R&D services, those costs should be included in your responses in Section 2 as "costs for purchased R&D services."

If your foreign parent pays or reimburses your company for R&D services, the costs for this R&D should be included in your responses in Section 3 as "costs funded, paid for, or reimbursed by others."

Report your survey data using U.S. Generally Accepted Accounting Principles (U.S. GAAP) as recognized by the Financial Accounting Standard Board (FASB). If your company follows International Financial Reporting Standards (IFRS), we request that you estimate any adjustments that would be required to conform to U.S. GAAP.

No

**1-5 Did your company own more than 50 percent of any company operations or subsidiaries outside the 50 United States and D.C. during 2021?**

Yes → **Include data for these operations/subsidiaries in your survey responses**

No

**1-6 Did your company have discontinued operations in 2021?**

Yes → **Include data for these operations in your survey responses**

No

**1-7 Who is the survey coordinator?**

The survey coordinator is the person at your company responsible for gathering all requested information, ensuring instructions are followed, and submitting the completed survey. The survey coordinator may not be able to personally complete the entire survey and may need to request information from other knowledgeable resources concerning your company's R&D, accounting, human resources, and legal matters.

Name

Title

Telephone

Area code

Number

Extension



E-mail address

**1-8** What was the total number of your company's employees worldwide for the pay period that included March 12, 2021?

**Include:**

- Full- and part-time employees

**Exclude:**

- Leased or temporary employees and consultants

Number

--	--	--	--	--	--

**1-9** How many of the employees reported in Question 1-8 were employees of your company's domestic operations and foreign operations?

**Domestic operations employees** include all employees whose payroll was reported on the first quarter filing of IRS Form 941, Employer's Quarterly Tax Return.

	(1) Domestic operations	(2) Foreign operations	(3) Total employees																								
Employees .....	<table border="1" style="width: 100%; height: 20px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>									<table border="1" style="width: 100%; height: 20px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>									<table border="1" style="width: 100%; height: 20px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>								

Total equals Question 1-8

**TIP** If the number reported in Question 1-9, column 1, was fewer than 10, return this form to the Census Bureau - you are not required to complete the rest of this survey.

**Business Codes**

**1-10** Please describe your company's primary business activity during 2021.

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**1-11** List all applicable business codes in which your company operated worldwide in 2021.

**NOTE:** These codes will be used to describe both business activities and R&D activities and may differ from industry codes used by other government surveys and reports. Tools to help you search for appropriate business codes are available at <https://www.census.gov/programs-surveys/brds/information/brdshelp/business-codes.html>.

Business code (see pages 54-55)	Description

**1-12 What was the amount of your company's worldwide sales and revenues for the year 2021?**

**Include:**

- Sales and operating revenues from discontinued operations

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

**1-13 How much of the amount reported in Question 1-12 was attributable to or originated from domestic operations?**

**Include:**

- Sales and operating revenues to foreign customers, including foreign subsidiaries

**Example:** U.S. Manufacturing Corporation sells parts to customers around the world. However, because all its operations are located inside the United States it reports 100% of its sales in this question.

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

**1-14 How much of the 2021 sales and operating revenue amounts was for each business code listed or amended in Question 1-11:**

- (1) Worldwide sales and operating revenues reported in Question 1-12  
 (2) Sales and operating revenues from domestic operations reported in Question 1-13

	Business code	(1) Worldwide sales and operating revenues			(2) Sales and operating revenues from domestic operations		
		\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
a.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
b.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
c.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
d.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
e.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
f.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
g.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
h.	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
i.	Less eliminations the sales and revenues that are eliminated in order to consolidate the business codes. . . .	(	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	)	(	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	)
j.	<b>Total</b> . . . . .		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	

Total equals Question 1-12

Total equals Question 1-13

## SECTION 2

### R&D Paid For by Your Company

#### Who should answer this section?

Persons familiar with accounting concepts and with access to financial records related to your company's R&D activities should complete this section.

#### What does this section cover?

This section requests information about your company's R&D at multiple levels of detail: for your worldwide consolidated enterprise, for units or parts of your company defined by geography (countries, states, specific location), and for parts of your company defined by business code.

#### 2-1 What was the worldwide R&D expense (both direct and indirect) for your company in 2021?

**If your company is publicly traded**, this amount is equivalent to that disclosed on SEC Form 10-K as defined in FASB ASC Topic 730, Research and Development.

**If your company is foreign-owned**, refer to the instructions on page 5. Additional guidance, such as for **privately owned companies**, is available online at <https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q2-1>

**NOTE:** Report your company's R&D expense even if the amount is not considered material for your company's financial statements.

\$Bil.	Mil.	Thou.
<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>

#### 2-2 Does the amount reported in Question 2-1 include any of the following costs?

- |  |                          |     |  |                          |    |
|--|--------------------------|-----|--|--------------------------|----|
| a. Collaborative R&D that was reimbursed by business partners, such as through cost-sharing agreements . . . . .           | <input type="checkbox"/> | Yes |  | <input type="checkbox"/> | No |
| b. R&D paid for by grants (government or private foundations) . . . . .  | <input type="checkbox"/> | Yes |  | <input type="checkbox"/> | No |
| c. R&D paid for by customers (customer-sponsored R&D) . . . . .  | <input type="checkbox"/> | Yes |  | <input type="checkbox"/> | No |
| d. Technical services not an integral part of an R&D project (such as product support provided by R&D employees) . . . . . | <input type="checkbox"/> | Yes |  | <input type="checkbox"/> | No |
| e. Bid and proposal costs . . . . .  | <input type="checkbox"/> | Yes |  | <input type="checkbox"/> | No |
| f. Expenses for the acquisition of in-process R&D (IPR&D) or the impairment of intangible IPR&D assets . . . . .           | <input type="checkbox"/> | Yes |  | <input type="checkbox"/> | No |
| g. Phase IV clinical trials . . . . .  | <input type="checkbox"/> | Yes |  | <input type="checkbox"/> | No |

#### 2-3 If you answered "Yes" to any of the costs in Question 2-2, what was the amount of these costs that were included in your response to Question 2-1?

\$Bil.	Mil.	Thou.
<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>

#### 2-4 Subtract Question 2-3 from Question 2-1 and enter the result here. This is the total R&D paid for by your company in 2021.

\$Bil.	Mil.	Thou.
<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>

Is the amount entered in Question 2-4:

\$0 → **Skip to Section 3 on page 19.**

Less than \$1 Million → **Skip to Section 2 Worksheet on page 18 and then continue with Section 3 on page 19.**

\$1 Million or greater → **Continue with Question 2-5.**



## Indirect R&D charges

**2-5** How much of the amount reported in Question 2-4 was for R&D costs your company plans to recoup through indirect charges on U.S. federal government contracts (IR&D or independent R&D)?

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

## R&D paid for by your company

**2-6** Of the amount reported in Question 2-4, what were the costs for each business code listed or amended in Question 1-11?

If R&D costs are applicable to more than one business code allocate on a reasonable basis. Allocation in proportion to operating revenues is acceptable unless some alternative allocation basis is more appropriate.

Business code	\$Bil.	Mil.	Thou.
a. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
d. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
e. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
f. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
g. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
h. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
i. <b>Total</b> (equals Question 2-4)	<input type="text"/>	<input type="text"/>	<input type="text"/>

**2-7** Of the amount reported in Question 2-4, what costs were incurred by your company in the following locations?

	\$Bil.	Mil.	Thou.
a. Domestic United States (50 states and D.C.) [Include R&D performed by domestic operations that is paid for by foreign subsidiaries] . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. All other countries (also, Puerto Rico) [Include R&D performed by foreign subsidiaries that is paid for by domestic operations] . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. <b>Total</b> (equals Question 2-4). . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**2-8 How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by your company in 2021 was for each of the following types of costs?**

**Indirect costs that are allocated to R&D** should be reported in the "All other costs" line only if no other category is applicable. Refer to the question instructions for specific examples.

	(1) Domestic			(2) Foreign			(3) Worldwide		
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
a. Salaries, wages, and fringe benefits	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. Stock-based compensation	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. Leased employees and temporary staffing, including on-site consultants, working on R&D	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
d. Expensed equipment (not capitalized)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
e. Materials and supplies	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
f. Leased facilities and equipment	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
g. Depreciation and amortization on property, plant, equipment, and intangible assets	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
h. Royalties and licensing fees (including payments made to others for the use of patents and other forms of intellectual property used in your company's R&D)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
i. Collaborative R&D payments (include joint development agreements)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
j. Contract R&D (include payments to your company's foreign parent for R&D)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
k. Other purchased services	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Question continues on next page

**2-8 (Continued)**

	(1) Domestic			(2) Foreign			(3) Worldwide		
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
i. All other costs (including administrative and overhead costs <b>clearly associated with your company's R&amp;D</b> )	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
m. <b>Total</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<i>Total equals Question 2-7, line a</i>			<i>Total equals Question 2-7, line b</i>			<i>Total equals Question 2-4</i>		

**2-9 Add 2-8, lines i and j for each column, and enter the result here. This is R&D performed by others.**

	(1) Domestic			(2) Foreign			(3) Worldwide		
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**2-10 Subtract 2-9 from 2-8, line m, for each column and enter the result here. This is R&D performed by your company.**

	(1) Domestic			(2) Foreign			(3) Worldwide		
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**2-11 Of the amount reported in Question 2-10, column 2, how much R&D was performed in the following locations?** For full list of countries in each region see Question by Question Guidance at <https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q2-11>.

	\$Bil.	Mil.	Thou.		\$Bil.	Mil.	Thou.
Canada . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Finland . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Puerto Rico . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	France . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Europe</b>	\$Bil.	Mil.	Thou.	Germany . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Austria . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Hungary . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Belgium . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ireland . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Czech Rep . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Italy . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Denmark . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Luxembourg . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

Question continues on next page

**2-11 (Continued)**

	\$Bil.	Mil.	Thou.
Netherlands . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Norway . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Poland . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Russia . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Spain . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sweden . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Switzerland . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Turkey . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
United Kingdom . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Europe . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Latin America/  
Other Western  
Hemisphere**

	\$Bil.	Mil.	Thou.
Argentina . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Brazil . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Chile . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Mexico . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Latin America/OWH . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Asia and Pacific**

	\$Bil.	Mil.	Thou.
Australia . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
China . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

	\$Bil.	Mil.	Thou.
Hong Kong . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
India . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Indonesia . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Japan . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Malaysia . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
New Zealand . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Singapore . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
South Korea . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Taiwan . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Thailand . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Asia/ Pacific . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Middle East**

	\$Bil.	Mil.	Thou.
Israel . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Middle East . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Africa**

	\$Bil.	Mil.	Thou.
South Africa . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Africa . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Total** (equals Question 2-10, column 2). . . . .

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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**2-12** How much of the amount reported in Question 2-10, column 1, was performed in each state (including D.C.) in 2021?

	\$Bil.	Mil.	Thou.		\$Bil.	Mil.	Thou.
Alabama . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Maine . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Alaska . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Maryland . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Arizona . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Massachusetts . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Arkansas . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Michigan . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
California . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Minnesota . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Colorado . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Mississippi . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Connecticut . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Missouri . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Delaware . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Montana . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
District of Columbia . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Nebraska . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Florida . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Nevada . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Georgia . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	New Hampshire . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Hawaii . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	New Jersey . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Idaho . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	New Mexico . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Illinois . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	New York . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Indiana . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	North Carolina . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Iowa . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	North Dakota . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Kansas . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ohio . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Kentucky . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Oklahoma . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Louisiana . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Oregon . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

Question continues on next page

**2-12 (Continued)**

	\$Bil.	Mil.	Thou.		\$Bil.	Mil.	Thou.
Pennsylvania . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Vermont . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Rhode Island . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Virginia . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
South Carolina . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Washington . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
South Dakota . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	West Virginia . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tennessee . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Wisconsin . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Texas . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	Wyoming . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Utah . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	<b>Total</b> (equals Question 2-10, column 1) . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**2-13 At what domestic location did your company perform the largest dollar amount of R&D in 2021?**

**Address 1**

**Address 2**

**City**

**State**

**ZIP**

**2-14 How much of the amount reported in Question 2-10, column 1, was from the location identified in Question 2-13?**

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



**R&D transactions between legal entities under common ownership**

**2-18 How much of the domestic R&D performed by your company reported in Question 2-10, column 1, was paid for by your company's foreign subsidiaries?**

**Include:**

- Costs for R&D performed in the United States under contract for a foreign subsidiary
- Inter-company transactions paid **to** the United States **from** foreign subsidiaries for transfer pricing R&D cost sharing arrangements

**Exclude:**

- Payments in excess of the cost of R&D performed (profit or fees)

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

**2-19 How much of the foreign R&D performed by your company reported in Question 2-10, column 2, was paid for by your company's domestic operations?**

**Include:**

- Costs for R&D performed by your company's foreign subsidiaries under contract for your company's U.S. operations
- Inter-company transactions paid **from** the United States **to** foreign subsidiaries for transfer pricing R&D cost sharing arrangements

**Exclude:**

- Payments in excess of the cost of R&D performed (profit or fees)

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

**R&D performed by others**

**2-20 How much of the domestic R&D performed by others reported in Question 2-9, column 1, was performed by the following types of organizations?**

- a. Companies located inside the United States . . . . .
- b. Your company's foreign parent (if you are owned by a foreign parent). . . . .
- c. Other companies located outside the United States . . . . .
- d. U.S. federal government agencies or laboratories. . . . .
- e. U.S. state and local government agencies or laboratories. . .
- f. Universities, colleges, and academic researchers (including principal investigators) located inside the United States . . . .
- g. All other organizations inside the United States . . . . .
- h. All other organizations outside the United States . . . . .
- i. **Total domestic R&D paid for by your company that was performed by others** (equals Question 2-9, column 1). . . . .

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



## Activities with academia

**2-21** In addition to the amount reported in Question 2-20, line f, did your company make monetary gifts to U.S. universities or colleges in 2021 that included support for R&D?

Yes → Continue with Question 2-22

No → Skip to Question 2-23

**2-22** What was the amount of monetary gifts made by your company to U.S. universities or colleges in 2021 that was for R&D?

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

## Projected R&D for 2022

**2-23** What are your company's projected 2022 costs for (1) domestic, (2) foreign, and (3) worldwide R&D paid for by your company?

**NOTE:** These amounts are the 2022 projections for the amounts reported in Question 2-8, line m.

(1) Domestic			(2) Foreign			(3) Worldwide		
\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**2-24** How much of the amount reported in Question 2-23, column 1, is for projected contract R&D services and projected payments to business partners for collaborative R&D?

**NOTE:** This amount is the 2022 projection for the amount reported in Question 2-9, column 1.

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

**2-25** Who was primarily responsible for completing this section?

Same person mentioned in Question 1-7

Another person → Please provide the following information:

Name

Title

Telephone

Area code      Number

Extension

# SECTION 2 WORKSHEET

Complete if amount reported in Question 2-4 is less than \$1 Million

## 1 Of the total R&D paid for by your company reported in Question 2-4, what costs were incurred in the following locations?

	\$Mil.	Thou.
a. Domestic United States (50 states and D.C.) [Include R&D performed by domestic operations that is paid for by foreign subsidiaries]. . . . .	<input type="text"/>	<input type="text"/>
b. All other countries (also, Puerto Rico) [Include R&D performed by foreign subsidiaries that is paid for by domestic operations] . . . . .	<input type="text"/>	<input type="text"/>
c. <b>Total</b> . . . . .	<input type="text"/>	<input type="text"/>

## 2 How much of the amount reported in Question 1, line a, was for each of the following types of costs?

	\$Mil.	Thou.
a. Salaries, wages, and fringe benefits. . . . .	<input type="text"/>	<input type="text"/>
b. Depreciation and amortization on property, plant, equipment, and intangible assets. . . . .	<input type="text"/>	<input type="text"/>
c. Collaborative R&D payments (include joint development agreements) . . . . .	<input type="text"/>	<input type="text"/>
d. Contract R&D (include payments to your company's foreign parent for R&D) . . . . .	<input type="text"/>	<input type="text"/>
e. All other costs (including administrative and overhead costs <b>clearly associated with your company's R&amp;D</b> ) . . . . .	<input type="text"/>	<input type="text"/>
f. <b>Total</b> (equals Question 1, line a) . . . . .	<input type="text"/>	<input type="text"/>

## 3 Add Question 2, lines a, b, and e, and enter the result here. This is the domestic R&D paid for and performed by your company in 2021.

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

## 4 Of the domestic R&D paid for and performed by your company reported in Question 3, how much was for the following categories?

	\$Mil.	Thou.
a. <u>Basic research</u> activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses. . . . .	<input type="text"/>	<input type="text"/>
b. <u>Applied research</u> activities aimed at solving a specific problem or meeting a specific commercial objective. . . . .	<input type="text"/>	<input type="text"/>
c. <u>Development</u> systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new products or processes or to improving existing products or processes. . . . .	<input type="text"/>	<input type="text"/>
d. <b>Total</b> (equals Question 3) . . . . .	<input type="text"/>	<input type="text"/>

# SECTION 3

## Costs Paid For by Others

**Who should answer this section?**

Persons familiar with accounting concepts and with access to financial records related to your company's activities paid for by others should complete this section.

**What does this section cover?**

Topics include customer-sponsored work and activities funded through grants, contracts, and/or reimbursements. Costs for these activities are requested at multiple levels of detail: for your worldwide consolidated enterprise, for units or parts of your company defined by geography (countries, states), and for parts of your company defined by business code.

**3-1 What were your company's worldwide costs (both direct and indirect) in 2021 for the following that were funded, paid for, or reimbursed by others not owned by your company?**

**Exclude:**

- Costs that were paid for by your company, such as those reported in Question 2-4
- Payments in excess of the actual cost of the work performed (such as profit or fees)

	\$Bil.	Mil.	Thou.
a. R&D reimbursed by your company's foreign parent (if you are owned by a foreign parent) . . . . .	□ □	□ □ □	□ □ □
b. Collaborative R&D reimbursed by business partners, such as through cost-sharing agreements . . . . .	□ □	□ □ □	□ □ □
c. R&D paid for by grants (government or private foundations). . . . .	□ □	□ □ □	□ □ □
d. Defense R&D goods or services provided as a prime or as a sub, to the government and/or government contractors. . . . .	□ □	□ □ □	□ □ □

**Exclude:**

- Costs for projects that have achieved technical feasibility, such as low-rate initial production. Additional guidance is available online at <https://www.census.gov/programs-surveys/brds/information.html>

e. Medical clinical trial Phase I-III services provided to others not owned by your company (include pass-through costs) . . . . .	□ □	□ □ □	□ □ □
f. Medical R&D services, other than clinical trials, provided to others not owned by your company . . . . .	□ □	□ □ □	□ □ □
g. Nondefense custom software development and/or computer systems designed for others not owned by your company. . . . .	□ □	□ □ □	□ □ □

**Exclude:**


- Software development that does not depend on a scientific or technological advance, such as adding functionality to existing application programs, debugging systems, and adapting existing software


h. Prototype development, production, and testing for customer's products prior to their introduction to the market (excluding defense-related prototyping reported in line d) . . . . .	□ □	□ □ □	□ □ □
i. All other R&D services provided to the Federal Government or to others not owned by your company . . . . .	□ □	□ □ □	□ □ □
<b>j. Total.</b> . . . . .	□ □	□ □ □	□ □ □

SECTION 3

**3-1 (Continued)**

The amount entered in Question 3-1, line j is the total R&D paid for by others in 2021. Is this amount:

\$0 →  **If Question 2-4 was also \$0, then you have completed this survey, otherwise skip to Section 4 on page 35.**

Less than \$1 Million →  **Skip to Section 3 Worksheet on page 33 and then continue with Section 4 on page 35.**

\$1 Million or greater → **Continue with Question 3-2.**

**R&D paid for by others**

**3-2 Of the amount reported in Question 3-1, line j, what costs were incurred by your company in the following locations?**

	\$Bil.	Mil.	Thou.
a. Domestic United States (50 states and D.C.) . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. All other countries (also, Puerto Rico) . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. <b>Total</b> (equals Question 3-1, line j) . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**3-3 How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by others in 2021 was for each of the following types of costs?**

**Indirect costs that are allocated to R&D** should be reported in the "All other costs" line only if no other category is applicable. Refer to the question instructions for specific examples.

	(1) Domestic			(2) Foreign			(3) Worldwide		
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
a. Salaries, wages, and fringe benefits	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. Stock-based compensation	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. Leased employees and temporary staffing, including on-site consultants, working on R&D	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
d. Expensed equipment (not capitalized)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
e. Materials and supplies	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Question continues on next page**

**3-3 (Continued)**

	(1) Domestic			(2) Foreign			(3) Worldwide		
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
f. Leased facilities and equipment	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
g. Depreciation and amortization on property, plant, equipment, and intangible assets	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
h. Royalties and licensing fees (including payments made to others for the use of patents and other forms of intellectual property used in your company's R&D)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
i. Collaborative R&D payments (include joint development agreements)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
j. Contract R&D (include payments to your company's foreign parent for R&D)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
k. Other purchased services	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
l. All other costs (including administrative and overhead costs <b>clearly associated with your company's R&amp;D</b> )	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
m. <b>Total</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<i>Total equals Question 3-2, line a</i>			<i>Total equals Question 3-2, line b</i>			<i>Total equals Question 3-1, line j</i>		

**3-4 Add 3-3, lines i and j for each column, and enter the result here. This is R&D performed by others (e.g., subcontracted/passed-through R&D costs).**

	(1) Domestic			(2) Foreign			(3) Worldwide		
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**3-5 Subtract 3-4 from 3-3, line m, for each column and enter the result here. This is R&D performed by your company that was paid for by others.**

	(1) Domestic			(2) Foreign			(3) Worldwide		
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

3-6

**Of the amount reported in Question 3-5, column 2, how much R&D was performed in the following locations?** For full list of countries in each region see Question by Question Guidance at <https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q3-6>.

	\$Bil.	Mil.	Thou.
Canada . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Puerto Rico . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Europe</b>	\$Bil.	Mil.	Thou.
Austria . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Belgium . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Czech Rep . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Denmark . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Finland . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
France . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Germany . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Hungary . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Ireland . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Italy . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Luxembourg . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Netherlands . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Norway . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Poland . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Russia . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Spain . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sweden . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

	\$Bil.	Mil.	Thou.
Switzerland . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Turkey . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
United Kingdom . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Europe . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Latin America/ Other Western Hemisphere</b>	\$Bil.	Mil.	Thou.
Argentina . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Brazil . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Chile . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Mexico . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Latin America/OWH . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Asia and Pacific</b>	\$Bil.	Mil.	Thou.
Australia . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
China . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Hong Kong . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
India . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Indonesia . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Japan . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Malaysia . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
New Zealand . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Singapore . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

Question continues on next page

SECTION 3

**3-6 (Continued)**

	\$Bil.	Mil.	Thou.
South Korea . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Taiwan . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Thailand . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Asia/ Pacific . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

<b>Middle East</b>	\$Bil.	Mil.	Thou.
Israel . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Middle East . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

<b>Africa</b>	\$Bil.	Mil.	Thou.
South Africa . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Africa . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Total</b> (equals Question 3-5, column 2). . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**3-7 How much of the domestic R&D performed by your company that was paid for by others reported in Question 3-5, column 1, was for each business code listed or amended in Question 1-11?**

**If R&D is applicable to more than one business code allocate** on a reasonable basis. Allocation in proportion to operating revenues is acceptable unless some alternative allocation basis is more appropriate.

<b>Business code</b>	\$Bil.	Mil.	Thou.
a. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
d. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
e. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
f. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
g. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
h. <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
i. <b>Total</b> (equals Question 3-5, column 1) . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**3-8**

**How much of the amount reported in Question 3-5, column 1, was paid for by each of the following?**

**If your company is a subcontractor or subgrantee, report the original source of funds.**

**Example:** Company Sub Inc. performs custom software development for a large defense company as a subcontractor on a contract with the U.S. Dept. of Defense. Even though Sub Inc. is working directly for the defense company, it reports the cost of this development in line d because the Dept. of Defense was the original source of funds.

	\$Bil.	Mil.	Thou.
a. Other companies located <u>inside</u> the United States . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. Your company's foreign parent (if you are owned by a foreign parent) . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. Other companies located <u>outside</u> the United States . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
d. U.S. federal government agencies or laboratories . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
e. U.S. state and local government agencies or laboratories . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
f. Foreign government agencies or laboratories . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
g. Universities, colleges, and academic researchers (including principal investigators) located <u>inside</u> the United States . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
h. Universities and colleges located <u>outside</u> the United States . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
i. All other organizations <u>inside</u> the United States . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
j. All other organizations <u>outside</u> the United States . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
k. <b>Total</b> (equals Question 3-5, column 1) . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**3-9**

**Add Question 3-8, lines a, b, and c, and enter the result here. This is the domestic R&D performed by your company that was paid for by other companies.**

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



**3-10**

**Using the list of business codes printed below, allocate the amount reported in Question 3-9 based on the industries of the companies that paid for the R&D. As needed, enter additional codes from pages 54-55 in the spaces provided.**

Business code		Description	\$Bil.	Mil.	Thou.
a.	3 2 5 4 3	Biotechnology-based pharmaceutical and biological products (except diagnostics) . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
b.	3 2 5 4 1	Pharmaceutical, medicinal, and botanical products manufacturing . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
c.	3 3 5 0 0	Electrical equipment, appliances, and components manufacturing . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
d.	3 3 4 4 0	Semiconductor and other electronic components manufacturing . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
e.	3 3 9 1 0	Medical equipment and supplies manufacturing . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
f.	3 3 6 1 0	Motor vehicles manufacturing . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
g.	<input type="text"/>	<input type="text"/> ..	<input type="text"/>	<input type="text"/>	<input type="text"/>
h.	<input type="text"/>	<input type="text"/> ..	<input type="text"/>	<input type="text"/>	<input type="text"/>
i.	<input type="text"/>	<input type="text"/> ..	<input type="text"/>	<input type="text"/>	<input type="text"/>
j.	<b>Total</b> (equals Question 3-9) . . . . .		<input type="text"/>	<input type="text"/>	<input type="text"/>

SECTION 3

**3-11 How much of the amount reported in Question 3-8, line d, was paid for by the following agencies?**

	\$Bil.	Mil.	Thou.
a. Department of Defense . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. Department of Energy . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. National Aeronautics and Space Administration . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
d. National Institutes of Health . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
e. Department of Homeland Security . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
f. Department of Transportation . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
g. Environmental Protection Agency . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
h. National Science Foundation . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
i. All other, please specify: <input type="text"/> . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
j. <b>Total</b> (equals Question 3-8, line d) . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**3-12 How much of the amount reported in Question 3-8, line d, was performed under the following types of agreements?**

	\$Bil.	Mil.	Thou.
a. Contracts (include direct or prime contracts and subcontracts). . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. Grants, reimbursements, and all other agreements . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. <b>Total</b> (equals Question 3-8, line d) . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**3-13 Subtract Question 3-8, line d, from Question 3-8, line k, and enter the result here. This is the domestic R&D performed by your company that was paid for by nonfederal sources.**

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

**3-14**

How much of the following three amounts was performed in each state (including D.C.):

- (1) Domestic R&D paid for by the U.S. federal government reported in Question 3-8, line d
- (2) Domestic R&D paid for by nonfederal sources reported in Question 3-13
- (3) Total domestic R&D performed by your company that was paid for by others reported in Question 3-5, column 1

	(1) Federal			(2) Nonfederal			(3) Total		
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
Alabama	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Alaska	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Arizona	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Arkansas	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
California	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Colorado	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Connecticut	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Delaware	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
District of Columbia	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Florida	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Georgia	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Hawaii	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Question continues on next page

**3-14 (Continued)**

	<b>(1) Federal</b>			<b>(2) Nonfederal</b>			<b>(3) Total</b>		
	<u>\$Bil.</u>	<u>Mil.</u>	<u>Thou.</u>	<u>\$Bil.</u>	<u>Mil.</u>	<u>Thou.</u>	<u>\$Bil.</u>	<u>Mil.</u>	<u>Thou.</u>
Idaho	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Illinois	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Indiana	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Iowa	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Kansas	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Kentucky	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Louisiana	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Maine	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Maryland	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Massachusetts	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Michigan	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Minnesota	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Mississippi	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Question continues on next page

**3-14 (Continued)**

	(1) Federal			(2) Nonfederal			(3) Total		
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
Missouri	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Montana	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Nebraska	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Nevada	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
New Hampshire	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
New Jersey	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
New Mexico	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
New York	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
North Carolina	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
North Dakota	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Ohio	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Oklahoma	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Oregon	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Question continues on next page

**3-14 (Continued)**

	<b>(1) Federal</b>			<b>(2) Nonfederal</b>			<b>(3) Total</b>		
	<u>\$Bil.</u>	<u>Mil.</u>	<u>Thou.</u>	<u>\$Bil.</u>	<u>Mil.</u>	<u>Thou.</u>	<u>\$Bil.</u>	<u>Mil.</u>	<u>Thou.</u>
Pennsylvania	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Rhode Island	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
South Carolina	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
South Dakota	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Tennessee	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Texas	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Utah	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Vermont	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Virginia	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Washington	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
West Virginia	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Wisconsin	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Wyoming	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Question continues on next page

**3-14 (Continued)**

	(1) Federal			(2) Nonfederal			(3) Total		
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
<b>Total</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<i>Total equals Question 3-8, line d</i>			<i>Total equals Question 3-13</i>			<i>Total equals Question 3-5, column 1</i>		

**3-15 At what domestic location did your company perform the largest dollar amount of R&D that was paid for by others in 2021?**

Address 1

Address 2

City

State

ZIP

**3-16 How much of the amount reported in Question 3-5, column 1, was from the location identified in Question 3-15?**

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

**3-17 At what domestic location did your company perform the second largest dollar amount of R&D that was paid for by others in 2021?**

Address 1

Address 2

City

State

ZIP

**3-18 How much of the amount reported in Question 3-5, column 1, was from the location identified in Question 3-17?**

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

**R&D performed by others**

**3-19** Of the domestic R&D performed by others reported in Question 3-4, column 1, how much was paid for by U.S. federal government agencies or laboratories?

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

**Projected R&D paid for by others in 2022**

**3-20** What are your company's projected 2022 costs for R&D that will be paid for by others?

**NOTE:** This amount is the 2022 projection for what is reported in Question 3-1, line j.

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

**3-21** How much of the projected costs in 2022 for R&D that will be paid for by others reported in Question 3-20 will be performed by your company in the United States?

**NOTE:** This amount is the 2022 projection for what is reported in Question 3-5, column 1.

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

**3-22** How much of the projected costs in 2022 for domestic R&D performed by your company reported in Question 3-21 will be paid for by the U.S. federal government?

**NOTE:** This amount is the 2022 projection for what is reported in Question 3-8, line d.

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

**3-23** Who was primarily responsible for completing this section?

Same person mentioned in Question 1-7

Another person → **Please provide the following information:**

Name

Title

Telephone Area code  Number  Extension



# SECTION 3 WORKSHEET

Complete if amount reported in Question 3-1, line j is less than \$1 Million

**1** Of the total R&D paid for by others reported in Question 3-1, line j, what costs were incurred in the following locations?

	\$Mil.	Thou.
a. Domestic United States (50 states and D.C.) .....	□ □ □	□ □ □
b. All other countries (also, Puerto Rico) .....	□ □ □	□ □ □
c. <b>Total</b> .....	□ □ □	□ □ □

**2** How much of the amount reported in Question 1, line a, was for each of the following types of costs?

	\$Mil.	Thou.
a. Salaries, wages, and fringe benefits .....	□ □ □	□ □ □
b. Depreciation and amortization on property, plant, equipment, and intangible assets .....	□ □ □	□ □ □
c. Collaborative R&D payments (include joint development agreements) .....	□ □ □	□ □ □
d. Contract R&D (include payments to your company's foreign parent for R&D) .....	□ □ □	□ □ □
e. All other costs (including administrative and overhead costs <b>clearly associated with your company's R&amp;D</b> ) .....	□ □ □	□ □ □
f. <b>Total</b> (equals Question 1, line a) .....	□ □ □	□ □ □

**3** Add Question 2, lines a, b, and e, and enter the result here. This is the domestic R&D performed by your company that was paid for by others in 2021.

	\$Mil.	Thou.
	□ □ □	□ □ □

4

**How much of the amount reported in Question 3, was paid for by each of the following?**

**If your company is a subcontractor or subgrantee, report the original source of funds.**

**Example:** Company Sub Inc. performs custom software development for a large defense company as a subcontractor on a contract with the U.S. Dept. of Defense. Even though Sub Inc. is working directly for the defense company, it reports the cost of this development in line d because the Dept. of Defense was the original source of funds.

	\$Mil.	Thou.
a. Other companies located <u>inside</u> the United States . . . . .	□ □ □	□ □ □
b. Your company's foreign parent (if you are owned by a foreign parent) . . . . .	□ □ □	□ □ □
c. Other companies located <u>outside</u> the United States . . . . .	□ □ □	□ □ □
d. U.S. federal government agencies or laboratories . . . . .	□ □ □	□ □ □
e. U.S. state and local government agencies or laboratories . . . . .	□ □ □	□ □ □
f. Foreign government agencies or laboratories . . . . .	□ □ □	□ □ □
g. Universities, colleges, and academic researchers (including principal investigators) located <u>inside</u> the United States . . . . .	□ □ □	□ □ □
h. Universities and colleges located <u>outside</u> the United States . . . . .	□ □ □	□ □ □
i. All other organizations <u>inside</u> the United States . . . . .	□ □ □	□ □ □
j. All other organizations <u>outside</u> the United States . . . . .	□ □ □	□ □ □
k. <b>Total</b> (equals Question 3) . . . . .	□ □ □	□ □ □

5

**Of the domestic R&D performed by your company that was paid for by others reported in Question 3, how much was for the following categories?**

	\$Mil.	Thou.
a. <u>Basic research</u> activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses . . . . .	□ □ □	□ □ □
b. <u>Applied research</u> activities aimed at solving a specific problem or meeting a specific commercial objective . . . . .	□ □ □	□ □ □
c. <u>Development</u> systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new products or processes or to improving existing products or processes . . . . .	□ □ □	□ □ □
d. <b>Total</b> (equals Question 3) . . . . .	□ □ □	□ □ □

# SECTION 4

## Assets

**Who should answer this section?**

Persons familiar with your company's accounting for capital expenditures and with access to records related to those expenditures should complete this section.

**What does this section cover?**

The purpose of this section is to measure the stock of capital, both tangible and intangible, your company owns and uses in the course of its business and the investments it has made in these assets during 2021. Many of the questions in this section will tie directly to your company's financial statements.

**4-1 What was the net worldwide value of the following assets owned or leased by your company at the end of 2021, according to your balance sheet?**

**Include:**

- Assets classified as discontinued operations

	\$Bil.	Mil.	Thou.
a. Property, plant, and equipment. . . . .	□ □	□ □ □	□ □ □
b. Goodwill . . . . .	□ □	□ □ □	□ □ □
c. Identifiable intangible assets . . . . .	□ □	□ □ □	□ □ □
d. <b>Total.</b> . . . . .	□ □	□ □ □	□ □ □

**4-2 What was your company's accumulated depreciation and amortization for the following assets owned or leased by your business at the end of 2021?**

	\$Bil.	Mil.	Thou.
a. Property, plant, and equipment. . . . .	□ □	□ □ □	□ □ □
b. Identifiable intangible assets . . . . .	□ □	□ □ □	□ □ □
c. <b>Total.</b> . . . . .	□ □	□ □ □	□ □ □

**4-3 What was the reduction in value of the following assets due to impairment charges, disposals, or retirement in 2021?**

**Include:**

- Assets classified as discontinued operations
- Assets considered sold under capital lease arrangements

	\$Bil.	Mil.	Thou.
a. Property, plant, and equipment. . . . .	□ □	□ □ □	□ □ □
b. Goodwill . . . . .	□ □	□ □ □	□ □ □
c. Identifiable intangible assets . . . . .	□ □	□ □ □	□ □ □
d. <b>Total.</b> . . . . .	□ □	□ □ □	□ □ □

**4-4** What was the book value of the following assets acquired through mergers and acquisitions in 2021?

	\$Bil.	Mil.	Thou.
a. Property, plant, and equipment . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. Goodwill . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. Identifiable intangible assets . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
d. <b>Total</b> . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**4-5** What were your company's total worldwide expenditures for the following capitalized assets in 2021?

**Include:**

- Estimated cost of new structures and equipment acquired as the lessee under lease arrangements entered into during 2021.
- Capitalized internal software development costs.

**Exclude:**

- Investment in operating leases (expenditures for fixed assets leased to others).

	\$Bil.	Mil.	Thou.
a. Property, plant, and equipment . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. Identifiable intangible assets . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. <b>Total</b> . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**4-6** How much of the expenditures for capitalized assets in Question 4-5 were for assets that were deployed in the following locations?

	(1) Domestic			(2) Foreign			(3) Worldwide		
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
a. Property, plant, and equipment	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. Identifiable intangible assets	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. <b>Total</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**4-7**

**Of the amounts reported in Question 4-6, Column 1 (Domestic), how much was for R&D operations?**

**Include:**

- Expenditures for business operations that research and develop new and improved products for sale by your company.
- Expenditures for business operations that research and develop new and improved processes and software for use by your company.
- Expenditures for business operations that conduct R&D that is paid for by customers, business partners, or other third parties.

Companies should allocate capital expenditures that benefit both R&D operations and other company operations on a reasonable basis.

	\$Bil.	Mil.	Thou.
a. Property, plant, and equipment. . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. Identifiable intangible assets. . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. <b>Total</b> . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**4-8**

**How much of the amount reported in Question 4-7 was for the following?**

	\$Bil.	Mil.	Thou.
a. Land acquisition . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. Buildings and land improvement. . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. Machinery and equipment. . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
d. Capitalized software . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
e. Other intellectual property. . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
f. All other capital expenditures for R&D operations. . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
g. <b>Total</b> (equals Question 4-7, line c). . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>

**4-9**

**Was any of the amount reported in Question 4-7 funded, paid for, or reimbursed by others not owned by your company (including a foreign parent)? . . . . .**

Yes  No





## Areas of application for domestic R&D paid for and performed by your company

**NOTE:** You may report the same R&D in multiple areas for Questions 5-5 to 5-9.

**5-5** What percentage of the amount reported in Question 5-2 had energy applications, including energy production, distribution, storage, and efficiency (excluding exploration and prospecting)?

**Example:** Company B is a semiconductor manufacturer. Its products are not designed specifically for energy applications. In 2021, 10% of the domestic R&D performed by the company was focused on improving the energy efficiency of its products. Based on this, Company B reports "10%" for this question.

%

**5-6** What percentage of the amount reported in Question 5-2 had environmental protection applications, including pollution abatement?

%

**5-7** What percentage of the amount reported in Question 5-2 had defense applications, including military applications and homeland security-related R&D?

%

**5-8** What percentage of the amount reported in Question 5-2 had health or medical applications?

%

**5-9** What percentage of the amount reported in Question 5-2 had agricultural applications?

%

## Technology focus of domestic R&D paid for and performed by your company

**NOTE:** You may report the same R&D in multiple areas for Questions 5-10 to 5-13.

**5-10** What percentage of the amount reported in Question 5-2 was for software products or software embedded in other projects or products?

%

**5-11** What percentage of the amount reported in Question 5-2 was for biotechnology? For list-based definition see Question by Question Guidance at

<https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-11>

**Biotechnology** The application of science and technology to living organisms, as well as parts, products and models thereof, to alter living or non-living materials for the production of knowledge, goods and services.

%

**5-12** What percentage of the amount reported in Question 5-2 was for nanotechnology? For list-based definition see Question by Question Guidance at

<https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-12>

**Nanotechnology** The application of science and technology to organisms, organic and inorganic materials, as well as parts, products, and models thereof, at the nanometer-scale (but not exclusively below 1000 nanometers).

%

**5-13** What percentage of the amount reported in Question 5-2 was for artificial intelligence (AI)? For a detailed definition see Question by Question Guidance at

<https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-13>

**Artificial Intelligence (AI)** A branch of computer science and engineering devoted to making machines intelligent. Intelligence is that quality that enables an entity to perceive, analyze, determine response, and act appropriately in its environment.

%



**Characteristics of foreign R&D paid for and performed by your company**

**5-14** Copy the amount from Question 2-10, column 2. This is the foreign R&D paid for and performed by your company.

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

**5-15** How much of the foreign R&D paid for and performed by your company reported in Question 5-14 was for the following categories?

- a. Research planned, systematic pursuit of new knowledge or understanding. . . . .
- b. Development systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new products or processes or to improving existing products or processes. . . . .
- c. **Total** (equals Question 5-14). . . . .

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

**Domestic R&D performed by your company that was paid for by others**

**TIP** If the amount reported in Question 3-1, line j was less than \$1 Million, skip to Section 6 on page 45.

**5-16** Copy the amount from Question 3-5, column 1. This is the domestic R&D performed by your company that was paid for by others.

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

**5-17** How much of the amount reported in Question 5-16 was for the following categories?

- a. Research planned, systematic pursuit of new knowledge or understanding. . . . .
- b. Development systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new products or processes or to improving existing products or processes. . . . .
- c. **Total** (equals Question 5-16). . . . .

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

**5-18** If you reported any research in Question 5-17, line a, how much of that research was for the following categories?

- a. Applied research activities aimed at solving a specific problem or meeting a specific commercial objective. . . . .
- b. Basic research activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses . . . . .
- c. **Total** (equals Question 5-17, line a). . . . .

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

**NOTE: You may report the same R&D in multiple areas for Questions 5-19 to 5-23.**

**5-19** What percentage of the amount reported in Question 5-16 had energy applications, including energy production, distribution, storage, and efficiency (excluding exploration and prospecting)?     %

**5-20** What percentage of the amount reported in Question 5-16 had environmental protection applications, including pollution abatement?     %

**5-21** What percentage of the amount reported in Question 5-16 had defense applications, including military applications and homeland security-related R&D?     %

**5-22** What percentage of the amount reported in Question 5-16 had health or medical applications?     %

**5-23** What percentage of the amount reported in Question 5-16 had agricultural applications?     %

### Technology focus of domestic R&D performed by your company that was paid for by others

**NOTE: You may report the same R&D in multiple areas for Questions 5-24 to 5-27.**

**5-24** What percentage of the amount reported in Question 5-16 was for software products or software embedded in other projects or products?     %

**5-25** What percentage of the amount reported in Question 5-16 was for biotechnology? For list-based definition see Question by Question Guidance at <https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-25>

**Biotechnology** The application of science and technology to living organisms, as well as parts, products and models thereof, to alter living or non-living materials for the production of knowledge, goods and services.

%

**5-26** What percentage of the amount reported in Question 5-16 was for nanotechnology? For list-based definition see Question by Question Guidance at <https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-26>

**Nanotechnology** The application of science and technology to organisms, organic and inorganic materials, as well as parts, products, and models thereof, at the nanometer-scale (but not exclusively below 1000 nanometers).

%

**5-27** What percentage of the amount reported in Question 5-16 was for artificial intelligence (AI)? For a detailed definition see Question by Question Guidance at <https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-27>

**Artificial Intelligence (AI)** A branch of computer science and engineering devoted to making machines intelligent. Intelligence is that quality that enables an entity to perceive, analyze, determine response, and act appropriately in its environment.

%

**Domestic R&D performed by your company that was paid for by the U.S. federal government**

**5-28** Copy the amount from Question 3-8, line d. This is the domestic R&D performed by your company that was paid for by the U.S. federal government.

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

**5-29** How much of the amount reported in Question 5-28 was for the following categories?

- a. Research planned, systematic pursuit of new knowledge or understanding. . . . .
- b. Development systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new products or processes or to improving existing products or processes. . . . .
- c. **Total** (equals Question 5-28). . . . .

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

**5-30** If you reported any research in Question 5-29, line a, how much was for the following categories?

- a. Applied research activities aimed at solving a specific problem or meeting a specific commercial objective. . . . .
- b. Basic research activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses. . . . .
- c. **Total** (equals Question 5-29, line a). . . . .

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

**5-31** What percentage of the amount reported in Question 5-28 was for software products or software embedded in other projects or products?

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
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**Characteristics of foreign R&D performed by your company that was paid for by others**

**5-32** Copy the amount from Question 3-5, column 2. This is the foreign R&D performed by your company and paid for by others.

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

**5-33** How much of the amount reported in Question 5-32 was for the following categories?

- a. Research planned, systematic pursuit of new knowledge or understanding. . . . .
- b. Development systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new products or processes or to improving existing products or processes. . . . .
- c. **Total** (equals Question 5-32). . . . .

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



# SECTION 6

## Human Resources

**Who should answer this section?**

Persons familiar with human resources concepts and with access to records related to your company's employees should complete this section.

**What does this section cover?**

This section requests information about your company's employees, focusing on those who worked on R&D activities either full-time or part-time. Include employment data for operations or subsidiaries for which your company owned more than 50 percent.

**6-1 How many employees reported in Question 1-9 were R&D employees and how many were all other employees?**

**R&D employees include** all employees who work on R&D or who provide direct support to R&D, such as researchers, R&D managers, technicians, clerical staff, and others assigned to R&D groups. **Exclude** employees who provide only indirect support to R&D, such as corporate personnel, security guards, and cafeteria workers.

	(1) Domestic operations	(2) Foreign operations	(3) Total employees
a. R&D employees . . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
b. All other employees . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
c. <b>Total employees</b> . . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

*Total line equals Question 1-9*

**6-2 How many of the employees reported in Question 6-1, column 1, were employed in each state (including D.C.)?**

	(1) R&D employees	(2) Total employees		(1) R&D employees	(2) Total employees
Alabama	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Colorado	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Alaska	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Connecticut	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Arizona	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Delaware	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Arkansas	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	District of Columbia	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
California	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Florida	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

**Question continues on next page**

6-2

(Continued)

(1) R&D employees	(2) Total employees
Georgia <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Hawaii <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Idaho <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Illinois <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Indiana <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Iowa <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Kansas <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Kentucky <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Louisiana <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Maine <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Maryland <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Massachusetts <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Michigan <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

(1) R&D employees	(2) Total employees
Minnesota <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Mississippi <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Missouri <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Montana <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Nebraska <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Nevada <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
New Hampshire <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
New Jersey <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
New Mexico <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
New York <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
North Carolina <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
North Dakota <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Ohio <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

Question continues on next page

SECTION 6

6-2

(Continued)

(1)  
R&D employees

(2)  
Total employees

Oklahoma

Oregon

Pennsylvania

Rhode Island

South Carolina

South Dakota

Tennessee

Texas

(1)  
R&D employees

(2)  
Total employees

Utah

Vermont

Virginia

Washington

West Virginia

Wisconsin

Wyoming

Total

6-3

How many of the employees reported in Question 6-1, column 2, were employed in each location (including Puerto Rico)?

(1)  
R&D employees

(2)  
Total employees

Canada

Puerto Rico

Europe

Austria

Belgium

(1)  
R&D employees

(2)  
Total employees

Czech Rep

Denmark

Finland

France

Question continues on next page

6-3

(Continued)

(1) R&D employees	(2) Total employees
Germany	
Hungary	
Ireland	
Italy	
Luxembourg	
Netherlands	
Norway	
Poland	
Russia	
Spain	
Sweden	
Switzerland	
Turkey	

(1) R&D employees	(2) Total employees
United Kingdom	
Other Europe	
<b>Latin America/Other Western Hemisphere</b>	
Argentina	
Brazil	
Chile	
Mexico	
Other Latin America/OWH	
<b>Asia and Pacific</b>	
Australia	
China	
Hong Kong	
India	
Indonesia	

Question continues on next page



6-3

(Continued)

	(1) R&D employees	(2) Total employees	(1) R&D employees	(2) Total employees
Japan	<input type="text"/>	<input type="text"/>	<b>Middle East</b>	
Malaysia	<input type="text"/>	<input type="text"/>	Israel	<input type="text"/>
New Zealand	<input type="text"/>	<input type="text"/>	Other Middle East	<input type="text"/>
Singapore	<input type="text"/>	<input type="text"/>	<b>Africa</b>	
South Korea	<input type="text"/>	<input type="text"/>	South Africa	<input type="text"/>
Taiwan	<input type="text"/>	<input type="text"/>	Other Africa	<input type="text"/>
Thailand	<input type="text"/>	<input type="text"/>	<b>Total</b>	<input type="text"/>
Other Asia/Pacific	<input type="text"/>	<input type="text"/>		

**R&D employees**

6-4 How many of the R&D employees reported in Question 6-1, line a, were female employees and male employees?

	(1) Domestic Operations	(2) Foreign Operations	(3) Total R&D employees
a. Female R&D employees	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. Male R&D employees . .	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. <b>Total R&amp;D employees</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Total line equals Question 6-1, line a

6-5

**How many of the R&D employees reported in Question 6-1, line a, worked in the occupations listed below?**

	(1) Domestic Operations	(2) Foreign Operations	(3) Total R&D employees
a. Researchers (including R&D scientists, engineers, and their managers) . . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
b. R&D technicians and equivalent staff . . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
c. R&D support staff (clerical and other) . . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
d. <b>Total R&amp;D employees</b>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

Total line equals Question 6-1, line a

6-6

**How many of the researchers reported in Question 6-5, line a, had the following level of education?**

	(1) Domestic Operations	(2) Foreign Operations	(3) Total
PhD (excluding MD, JD, and EdD) . . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

**Domestic full-time equivalents (FTEs)**

6-7

**Of the domestic R&D employees reported in Question 6-1, line a, column 1, what was the number of full-time equivalents (FTEs) for R&D activity for full-time R&D employees, other full-time employees not working solely on R&D, and part-time employees?**

	Number
a. FTEs for full-time R&D employees Count the number of full-time employees who work only on R&D. . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<b>Example:</b> 50 full-time R&D employees worked only on R&D = 50 FTEs	
b. FTEs for other full-time employees not working solely on R&D Use the share of the time they work on R&D to calculate the number of FTEs. . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<b>Example:</b> 60 full-time employees averaged one-fourth of their time on R&D = 15 FTEs	
c. FTEs for part-time employees working on R&D Use the share of a full-time week (such as 40 hours) that they work on R&D to calculate the FTEs. . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<b>Example:</b> 20 part-time employees averaged 20 hours a week on R&D activities = 10 FTEs	
d. <b>Total FTEs</b> . . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

Total FTEs should not exceed Question 6-1, line a, column 1.

**6-8**

**Of the domestic researchers reported in Question 6-5, line a, column 1, what was the number of full-time equivalents (FTEs) for R&D activity for full-time R&D employees, other full-time employees not working solely on R&D, and part-time employees?**

a. FTEs for full-time researchers Number  
 Count the number of full-time employees who work only on R&D. . . . .

**Example:**  
 50 full-time R&D scientists worked only on R&D = 50 FTEs

b. FTEs for other full-time researchers not working solely on R&D  
 Use the share of the time they work on R&D to calculate the number of FTEs . . . . .

**Example:**  
 60 full-time managers averaged one-fourth of their time on R&D = 15 FTEs

c. FTEs for part-time researchers working on R&D  
 Use the share of a full-time week (such as 40 hours) that they work on R&D to calculate the FTEs. . . . .

**Example:**  
 20 part-time employees averaged 20 hours a week on R&D activities = 10 FTEs

d. **Total FTEs** . . . . .

*Total FTEs should not exceed Question 6-5, line a, column 1.*

**6-9**

**How many of the domestic researchers reported in Question 6-5, line a, column 1, were non-U.S. citizens employed in the United States under a temporary visa, such as H-1B or L-1?**

(1)  
 Domestic Operations

Researchers employed under a temporary visa . . . . .

**6-10**

**In addition to the R&D employees reported in Question 6-1, line a, how many leased employees and temporary staff, including on-site consultants, worked in the occupations listed below?**

	(1) Domestic Operations	(2) Foreign Operations	(3) Total leased and temporary employees working on R&D
a. Researchers (including R&D scientists, engineers, and their managers) . . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
b. R&D technicians and equivalent staff . . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
c. R&D support staff (clerical and other) . . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
d. <b>Total leased and temporary employees working on R&amp;D</b> . . . . .	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>





**Business codes**

(used in Sections 1, 2, and 3)

**Aerospace and Defense**

- 33642 Aircraft engine and engine parts manufacturing
- 33641 Aircraft manufacturing
- 33644 Guided missiles, space vehicles, and parts manufacturing
- 33692 Military armored vehicle, tank, and tank components manufacturing
- 33452 Search, detection, navigation, guidance, aeronautical, and nautical system and instruments manufacturing
- 33660 Ship and boat building
- 33643 Other aircraft parts and auxiliary equipment manufacturing

**Automobiles, Motorcycles, and Components**

- 33620 Motor vehicle body and trailer manufacturing
- 33630 Motor vehicle parts manufacturing
- 33610 Motor vehicles manufacturing
- 33691 Motorcycle, bicycle, and parts manufacturing
- 33651 Railroad rolling stock manufacturing
- 33660 Ship and boat building
- 33699 All other transportation equipment manufacturing

**Capital Equipment**

- 33311 Agricultural machinery and equipment manufacturing
- 33332 Commercial, service industry, temperature control, and airflow control machinery manufacturing
- 33312 Construction machinery manufacturing
- 33500 Electrical equipment, appliances, and components manufacturing
- 33360 Engine, turbine, and power transmission equipment manufacturing
- 33322 Industrial machinery manufacturing, except semiconductor machinery
- 33390 Metalworking and other general purpose machinery manufacturing
- 33319 Mining, oil, and gas field machinery and equipment manufacturing
- 33331 Photographic and photocopying equipment manufacturing

**Chemicals and Materials**

- 32402 Asphalt paving, roofing, and saturated materials manufacturing
- 32510 Basic chemicals manufacturing
- 32790 Cement, concrete, lime, gypsum, and other nonmetallic mineral product manufacturing
- 32710 Clay and glass products manufacturing
- 21200 Mining
- 32592 Paint, adhesive, and other chemical manufacturing
- 32200 Paper manufacturing
- 32530 Pesticide, fertilizer, and other agricultural chemical manufacturing
- 32600 Plastics and rubber products manufacturing
- 33100 Primary metal manufacturing
- 32520 Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing
- 32591 Soap, cleaning compound, and toilet preparations manufacturing
- 32100 Wood products manufacturing
- 32403 Other petroleum and coal products manufacturing, including motor oil, hydraulic fluid, and charcoal

**Consumer Goods**

- 33333 Digital cameras manufacturing
- 33430 Audio and video equipment manufacturing
- 31210 Beverage manufacturing
- 33200 Fabricated metal products manufacturing
- 31100 Food manufacturing
- 33700 Furniture and related products manufacturing
- 32300 Printing and related support activities
- 32591 Soap, cleaning compound, and toilet preparations manufacturing
- 31990 Textile, apparel, and leather products manufacturing
- 31220 Tobacco manufacturing
- 33990 Miscellaneous manufacturing not listed elsewhere (games, office supplies, slot machines, etc.)

**Energy and Mining**

- 33360 Engine, turbine, and power transmission equipment manufacturing
- 21200 Mining
- 33319 Mining, oil, and gas field machinery and equipment manufacturing
- 21100 Oil and gas extraction
- 32401 Petroleum refineries
- 21300 Support activities for mining, including oil and gas

**Finance, Insurance, and Real Estate**

- 52200 Finance: banking and credit intermediation
- 52400 Insurance carriers and related activities
- 53100 Real estate
- 52310 Securities, commodity contracts, and other financial investments and related activities (including funds and trusts)

**Healthcare**

- 32543 Biotechnology-based pharmaceutical and biological products (except diagnostics)
- 33451 Electromedical, electrotherapeutic, and irradiation apparatus manufacturing
- 62200 Hospitals and nursing care facilities
- 32542 In vitro diagnostic substances manufacturing
- 62150 Medical and diagnostic laboratories
- 33910 Medical equipment and supplies manufacturing
- 62110 Offices of physicians
- 32541 Pharmaceutical, medicinal, and botanical products manufacturing
- 54173 Research and development services in biotechnology (except nanotechnology)
- 54175 Research and development services in nanotechnology
- 54174 Research and development services in physical, engineering, and life sciences (except nanotechnology and biotechnology)
- 62199 Other ambulatory health care services (ambulance, dental, home health care)

**Information Technology - Goods and Services**

33333 Digital cameras manufacturing  
51801 Cloud computing applications and internet based software services  
54150 Computer systems design and related services  
33412 Computers and peripheral equipment manufacturing, including magnetic and optical media  
51800 Data processing, hosting, and related services  
33500 Electrical equipment, appliances, and components manufacturing  
45411 Electronic shopping and mail-order houses  
33459 Measuring and control instruments manufacturing (not listed elsewhere)  
33422 Radio, television, and wireless communication equipment manufacturing  
33440 Semiconductor and other electronic components manufacturing  
33321 Semiconductor machinery manufacturing  
51120 Software publishers (except Internet)  
33421 Telephone apparatus manufacturing including routers, modems, and gateways  
42500 Wholesale electronic markets and agents and brokers (business to business)  
33429 Other communication equipment manufacturing (except radio, television, and wireless communication equipment)  
51910 Other information services, including Internet publishing, broadcasting, and web search portals

**Professional, Scientific, and Technical Services**

54180 Advertising and related services  
54130 Architectural, engineering, and related services  
54150 Computer systems design and related services  
54111 Legal, accounting, tax preparation, bookkeeping and payroll services  
54160 Management, scientific, and technical consulting services  
54190 Professional, scientific, and technical services (not listed elsewhere)  
54173 Research and development services in biotechnology (except nanotechnology)  
54175 Research and development services in nanotechnology  
54174 Research and development services in physical, engineering, and life sciences (except nanotechnology and biotechnology)  
54172 Research and development services in social sciences and humanities  
54140 Specialized design services

**Telecommunications and Utilities**

51500 Broadcasting (except Internet)  
51740 Satellite telecommunications  
22100 Utilities  
56200 Waste management and remediation services  
51710 Wired telecommunications carriers  
51720 Wireless telecommunications carriers (except satellite)  
51790 Other telecommunications (not listed elsewhere)

**Other Services**

72000 Accommodation and food services  
56100 Administrative and support services  
71000 Arts, entertainment, and recreation  
23000 Construction  
49200 Couriers, messengers, and express delivery services  
53300 Lessors of nonfinancial intangible assets (including patent licensing)  
55100 Management of companies and enterprises  
42300 Merchant wholesalers, durable goods  
42400 Merchant wholesalers, nondurable goods  
51200 Motion picture and sound recording (except Internet)  
51110 Newspaper, periodical, book, and directory publishers (except Internet)  
53200 Rental and leasing services  
44000 Retail trade, except electronic shopping and mail-order houses  
62400 Social assistance services  
21300 Support activities for mining, including oil and gas  
48000 Transportation  
49300 Warehousing and storage  
81000 Other services (not listed elsewhere)

**Approximately how long did it take to complete this survey?**

Hours	Minutes
<input type="text"/>	<input type="text"/>
:	<input type="text"/>
<input type="text"/>	<input type="text"/>

**Remarks** (Please use this space below for any explanations that may be essential in understanding your reported data.)

**Thank You – Your Response is Important**

Accurate and timely statistical information could not be produced without your continued cooperation and goodwill. Thank you.

We estimate this survey will take between 15 minutes and 18 hours, with an average of 2 hours and 37 minutes to complete, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. You may email comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to [erd.survey.comments@census.gov](mailto:erd.survey.comments@census.gov). Be sure to use "ERD Survey Comments 0607-0912" as the subject.