

47132-0001

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

FORM

**BRD-1** (01-05-2022)

# 2021 BUSINESS ENTERPRISE RESEARCH AND DEVELOPMENT SURVEY

OMB No. 0607-0912: Approval Expires 12/31/2024

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.
<b>Call</b> 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

# INTERNET REPORTING OPTION AVAILABLE Please complete this survey online at: https://portal.census.gov

(Please correct any errors in this mailing address)

#### **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.

### 

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

## 

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.

#### 

Topics include stock of capital, both tangible and intangible, your company owned and acquired.

## 

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.

## 

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

## 

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 guestionnaire
- 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-survevs/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 on or after April 1, 2021, report only for the period January 1, 2021 to the date you 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) (MM) (DD) (YYYY)
	company purchased your company
	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.SOWNED 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 on or after April 1, 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.
	□ 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.Slocated 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
	Did your company own more than 50 percent of any company operations or subsidiaries outside the 50 United States and D.C. during 2021?
	<ul><li>Yes → Include data for these operations/subsidiaries in your survey responses</li><li>No</li></ul>
1-6	Did your company have discontinued operations in 2021?
	<ul><li>Yes → Include data for these operations in your survey responses</li><li>No</li></ul>
-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
	Telephone Title Area code Number Extension
	E-mail address

	<ul><li>Include:</li><li>Full- and part-time emp</li></ul>	lovees			Number				
	Exclude:	loyees							
	Leased or temporary er	nployees and	consultants						
	How many of the employees reported in Question 1-8 were employees of your company's <u>domestic</u> operations and <u>foreign</u> operations?								
			<b>ployees</b> include all employees whose payroll was reported or rm 941, Employer's Quarterly Tax Return.						
			(1) omestic perations	(2) Foreign operations	(3) Total employees				
	Employees	00			Total equals Question				
f +L	he number reported in Q	upotion 1.0	column 1 was	fower than 10 return	·				
cer.	he number reported in O nsus Bureau - you are no	t required to	complete the i	rest of this survey.					
	ess Codes								
Ξ									
Ξ	Please describe your	company's	primary busin	ess activity during	g <b>2021</b> .				
Ξ		company's	primary busin	ess activity during	g <b>2021</b> .				
Ξ		company's	primary busin	ess activity during	g 2021.				
Ξ		company's	primary busin	ess activity during	g <b>2021</b> .				
)		company's	primary busin	ess activity during	g <b>2021</b> .				
	Please describe your o								
	Please describe your								
	Please describe your o	iness codes	s in which you	ır company operat	ted worldwide				
	List all applicable bus in 2021.  NOTE: These codes will may differ from industri	iness codes	describe both	ur company operate business activities activ	ted worldwide nd R&D activities and				
	List all applicable bus in 2021.  NOTE: These codes will may differ from industry you search for appropri	iness codes  If be used to y codes used ate business	describe both by other goves codes are avai	business activities a	ted worldwide nd R&D activities and d reports. Tools to hel				
	List all applicable bus in 2021.  NOTE: These codes will may differ from industri	iness codes  If be used to y codes used ate business	describe both by other goves codes are avai	business activities a	ted worldwide nd R&D activities and d reports. Tools to hel				
	List all applicable bus in 2021.  NOTE: These codes will may differ from industry you search for appropri https://www.census.gov	iness codes  If be used to y codes used ate business	describe both by other goves codes are avai	business activities a broment surveys and lable at bromation/brdshelp/b	ted worldwide nd R&D activities and d reports. Tools to hel				
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	List all applicable bus in 2021.  NOTE: These codes will may differ from industry you search for appropri https://www.census.gov	iness codes  If be used to y codes used ate business	describe both by other goves codes are avai	business activities a broment surveys and lable at bromation/brdshelp/b	ted worldwide nd R&D activities and d reports. Tools to hel				
	List all applicable bus in 2021.  NOTE: These codes will may differ from industry you search for appropri https://www.census.gov	iness codes  If be used to y codes used ate business	describe both by other goves codes are avai	business activities a broment surveys and lable at bromation/brdshelp/b	ted worldwide nd R&D activities and d reports. Tools to hel				
	List all applicable bus in 2021.  NOTE: These codes will may differ from industry you search for appropri https://www.census.gov	iness codes  If be used to y codes used ate business	describe both by other goves codes are avai	business activities a broment surveys and lable at bromation/brdshelp/b	ted worldwide nd R&D activities and d reports. Tools to hel				
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	List all applicable bus in 2021.  NOTE: These codes will may differ from industry you search for appropri https://www.census.gov	iness codes  If be used to y codes used ate business	describe both by other goves codes are avai	business activities a broment surveys and lable at bromation/brdshelp/b	ted worldwide nd R&D activities and d reports. Tools to hel				

1-12	What was the amou for the year 2021?	nt of your o	company's <u>w</u>	orldwide s			Th		
	Include:	_			\$Bil.	Mil.	Thou.		
	Sales and operating in the sales and operating in the sales and operating in the sales are sales.	revenues from	n discontinued (	operations					
1-13	How much of the an from domestic operation		rted in Ques	le to or originated					
	Include:  Sales and operating including foreign sub		oreign custome	rs,					
	<b>Example:</b> U.S. Manufactustomers around the woperations are located in	vorld. Howeve nside the Uni	er, because all i	ts	\$Bil.	Mil.	Thou.		
	of its sales in this quest	ion.							
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 1-1  (1)  (2)  Worldwide sales and Sales and operating revenues operating revenues from domestic operations								
	Business code	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.		
	a								
	b								
	c.								
	d								
	e								
	f								
	g								
	h.								
	i. Less eliminations the sales and revenues that are eliminated in order to consolidate the business codes								
	j. <b>Total</b>								
		Total	equals Questio	n 1-12	Total ed	quals Questic	on 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

	ride consolidated enterprise, for units or parts of your company defined by specific location), and for parts of your company defined by business co		ny (countries,
2-1	What was the worldwide R&D expense (both direct and indirect) 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.	Mil.	Thou.
2-2	Does the amount reported in Question 2-1 include any of the folia. Collaborative R&D that was reimbursed by business partners, such as through cost-sharing agreements		res 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?	Mil.	Thou.
2-4	Subtract Question 2-3 from Question 2-1 and enter the \$Bil.	Mil.	Thou.

result here. This is the total R&D paid for by your company in 2021.

\$Bil.	Mil.	Thou.		

Is the amount entered in Question 2-4:

 $$0 \rightarrow \text{(stop)}$  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.

Indi	ect 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.							
R&D paid for by your company											
2-6	Of the amount reported in Question 2-4, what were the cocode listed or amended in Question 1-11?	sts for e	each busin	ess							
	If R&D costs are applicable to more than one business code allo basis. Allocation in proportion to operating revenues is acceptable unleallocation basis is more appropriate.										
	Business code	\$Bil.	Mil.	Thou.							
	a. UUUU										
	b. 0000										
	c. 00000										
	d. 00000										
	e										
	f										
	g										
	h										
	i. <b>Total</b> (equals Question 2-4)										
2-7	Of the amount reported in Question 2-4, what costs were	incurred	l by your								
	company in the following locations?  a. Domestic United States (50 states and D.C.) [Include	\$Bil.	Mil.	Thou.							
	R&D performed by domestic operations that is paid for by foreign subsidiaries]										
	b. All other countries (also, Puerto Rico) [Include R&D performed by foreign subsidiaries that is paid for by domestic operations]										
	c. <b>Total</b> (equals Question 2-4)										

	uch of the (1) domestompany in 2021 was t								
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.									
\$Bil. a. Salaries, wa	(1)  Domestic  Mil.  Thou.  ges, and fringe benefits	<u>\$Bil.</u>	(2) Foreign Mil.	Thou.	\$Bil.	(3) Worldwide <u>Mil.</u>	Thou.		
b. Stock-based	compensation								
c. Leased empl	loyees and temporary s	taffing, incl	uding on-si	te consulta	ints, workii	ng on R&D			
d. Expensed ed	quipment (not capitalize	d)							
e. Materials an	d supplies								
f. Leased facili	ties and equipment								
a Denvesiation	and amountination on m	sanauty, play	at aguinma	nt and in	tangible se	note			
g. Depreciation	and amortization on p	operty, piai	it, equipme	ent, and ini	langible as	sets			
h Royalties an	d licensing fees (including	n navments ma	ade to others	for the use of	natents and	other forms of i	ntellectual		
property used in	n your company's R&D)	g paymonts me			patents and		Tienectual		
i Collaborative	a R&D naymonto (include	ioint dayaları	mont agrees	nto)					
i. Collaborative	e R&D payments (include	Joint develop	nent agreeme	nts)					
j. Contract R&	D (include payments to your	company's for	eign parent fo	or R&D)					
j. John det rick	, include payments to your		Sign parent lo						
k. Other purcha	ased services								
	Qu	estion cont	inues on ne	ext page					

2-8 (Continued)					
(1 Dome	estic		(2) Foreign	ΦD'I	(3) Worldwide
\$Bil. Mil.  I. All other costs (incl	Thou.		<u>Mil.</u> <u>Thou.</u>	<u>\$Bil.</u> with your co	Mil. Thou.
m. <b>Total</b>					
00 00					
Total equals Que	stion 2-7, line a	Total equals	Question 2-7, line b	Total	equals Question 2-4
	es i and j for eac performed by ot		and enter the resul	t here.	
(1 Dome	)		(2) Foreign		(3) Worldwide
\$Bil. Mil.	Thou.		Mil. Thou.	\$Bil.	Mil. Thou.
	from 2-8, line n		column and enter	the result	here.
(1 Dome	)		(2) Foreign		(3) Worldwide
\$Bil. Mil.	Thou.		Mil. Thou.	\$Bil.	Mil. Thou.
			<b>0, column 2, how</b> untries in each region see		
	us.gov/programs-surv BBil. Mil.	eys/brds/informa Thou.	ation/brdshelp.html#q2-11	 \$Bil.	Mil. Thou.
Canada					
			Finland		
Puerto Rico			France		
Puerto Rico					
	SBil. Mil.	Thou.			
	SBil. Mil.	Thou.	France		
Europe	SBil. Mil.	Thou.	France		
Europe	SBil. Mil.	Thou.	France		
Europe 4	SBil. Mil.	Thou.	France		
Europe 4 Austria Belgium	SBil. Mil.	Thou.	France		

2-11 (Continue	d)						
	\$Bil.	Mil.	Thou.		\$Bil.	Mil.	Thou.
Netherlands				Hong Kong			
Norway				India			
Poland				Indonesia			
Russia				Japan			
Spain				Malaysia			
Sweden				New Zealand			
Switzerland				Singapore			
Turkey				South Korea			
United Kingdom				Taiwan			
Other Europe				Thailand			
				Other Asia/ Pacific			
Latin America/ Other Western Hemisphere	\$Bil.	Mil.	Thou.	raciiic			
Argentina				Middle East	\$Bil.	Mil.	Thou.
Brazil				Israel			
Chile				Other Middle East			
Mexico				Africa	\$Bil.	Mil.	Thou.
Other Latin America/OWH				South Africa			
				Other Africa			
Asia and Pacific	\$Bil.	Mil.	Thou.	<b>Total</b> (equals Question 2-10,			
Australia				column 2)			
China							

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.	I	\$Bil.	Mil.	Thou.		
Alabama				Maine					
Alaska				Maryland					
Arizona				Massachusetts					
Arkansas				Michigan					
California				Minnesota					
Colorado				Mississippi					
Connecticut				Missouri					
Delaware District of				Montana					
Columbia				Nebraska					
Florida				Nevada					
Georgia				New Hampshire  New Jersey					
Idaho				New Mexico					
Illinois				New York					
Indiana				North Carolina					
lowa				North Dakota					
Kansas				Ohio					
Kentucky				Oklahoma					
Louisiana				Oregon					
		Qı	uestion conti	nues on next page					

2-12 (Continued)				40.0		
\$Bil. Pennsylvania	Mil.	Thou.	Vermont	\$Bil.	Mil.	Thou.
Rhode Island			Virginia			
South Carolina			Washington			
South Dakota			West Virginia			
Tennessee			Wisconsin			
Texas			Wyoming			
Utah			<b>Total</b> (equals Question 2-10, column 1)			
Address 2 City				State	ZIP	
2-14 How much of the column 1, was Question 2-13?	he amount rep from the locat	orted in Q	uestion 2-10, fied in	\$Bil.	Mil.	Thou.

Address 2		
City	State	ZIP
How much of the amount reported in Question :	\$Bil. 1	Mil. T
column 1, was from the location identified in Question 2-15?		
		(1)
		<b>R&amp;D</b> perforn
Business code	by yo	R&D perforn ur company
	by yo	R&D perforn ur company
Business code	by yo	R&D perforn ur company
	by yo	R&D perforn ur company
a. 0000	by yo	R&D perforn ur company
a. 00000	by yo	R&D perforn ur company
a. 0000	by yo	R&D perforn ur company
a. 0000 b. 0000 c. 0000 d. 0000	by yo	R&D perforn ur company
a. 0000	by yo	R&D perforn ur company
a. 0000 b. 0000 c. 0000 d. 0000	by yo	R&D perforn ur company
a. 0000 b. 0000 c. 0000 d. 0000 f. 00000	by yo	R&D perforn ur company
a. 0000 b. 0000 c. 0000 d. 0000	by yo	R&D perform ur company
a. 0000 b. 0000 c. 0000 d. 0000 f. 00000	by yo	R&D perform ur company
a. 0000  b. 0000  c. 0000  d. 0000  f. 0000  g. 0000	by yo	R&D perform ur company

R&D transactions between legal entities under com	mon ownership
2-18 How much of the domestic R&D performed by your com 2-10, column 1, was paid for by your company's foreign	
<ul> <li>Include:</li> <li>Costs for R&amp;D performed in the United States under contract for a foreign subsidiary</li> <li>Inter-company transactions paid to the United States from foreign subsidiaries for transfer pricing R&amp;D cost sharing arrangements</li> <li>Exclude:</li> <li>Payments in excess of the cost of R&amp;D performed (profit or fees)</li> </ul>	\$Bil. Mil. Thou.
2-19 How much of the foreign R&D performed by your compactor column 2, was paid for by your company's domestic open	
<ul> <li>Include:</li> <li>Costs for R&amp;D performed by your company's foreign subsidiaries under contract for your company's U.S. operations</li> <li>Inter-company transactions paid from the United States to foreign subsidiaries for transfer pricing R&amp;D cost sharing arrangements</li> <li>Exclude:</li> <li>Payments in excess of the cost of R&amp;D performed (profit or fees)</li> </ul>	\$Bil. Mil. Thou.
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?	\$Bil. Mil. Thou.
a. Companies located inside the United States	
b. Your company's foreign parent (if you are owned by a foreign parent)	00 000 000
c. Other companies located outside the United States	
d. U.S. federal government agencies or laboratories	. 00 000 000
e. U.S. state and local government agencies or laboratories	. <u>UUUUUU</u>
f. Universities, colleges, and academic researchers (including principal investigators) located inside the United States	. 00 000 000
g. All other organizations inside the United States	
h. All other organizations outside the United States	. <u>UUUUUU</u>
<ul> <li>Total domestic R&amp;D paid for by your company that was performed by others (equals Question 2-9, column 1)</li> </ul>	. 00 000 000

Activities with academia	
2-21 In addition to the amount reported in Question 2-20, line from monetary gifts to U.S. universities or colleges in 2021 that  ☐ 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.
Projected R&D for 2022	
2-23 What are your company's projected 2022 costs for (1) dor (3) worldwide R&D paid for by your company?	mestic, (2) foreign, and
NOTE: These amounts are the 2022 projections for the amounts Question 2-8, line m.	s reported in
(1) Domestic  \$Bil.  Mil.  Thou.  \$Bil.  Mil.  Thou.	(3) Worldwide \$Bil. Mil. Thou.
00 000 000 000 000	00 000 000
2-24 How much of the amount reported in Question 2-23, columns for projected contract R&D services and projected payr to business partners for collaborative R&D?	
NOTE: This amount is the 2022 projection for the amount reported in Question 2-9, column 1.	
2-25 Who was primarily responsible for completing this section	n?
Same person mentioned in Question 1-7	
Another person → Please provide the following inform	ation:
Name Company C	
Telephone Title Area code Number	Extension

CECTION O MODICULET		
SECTION 2 WORKSHEET		
Complete if amount reported in Question 2-4 is less than	\$1 Milli	on
Of the total R&D paid for by your company reported in Question 2-4 were incurred in the following locations?	1, what co	sts
Domestic United States (50 states and D.C.) [Include R&D performed by domestic operations that is paid for by foreign subsidiaries]	\$Mil.	Thou.
b. All other countries (also, Puerto Rico) [Include R&D performed by foreign subsidiaries that is paid for by domestic operations]		
c. <b>Total</b>		
How much of the amount reported in Question 1, line a, was for each	ch 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 clearly associated with your company's R&D)		
f. <b>Total</b> (equals Question 1, line a)		
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.
Of the domestic R&D paid for and performed by your company repo Question 3, how much was for the following categories?	orted in	
Basic research activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses	\$Mil.	Thou.
<ul> <li>b. Applied research activities aimed at solving a specific problem or meeting a specific commercial objective</li> <li>c. Development systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new products or processes</li> </ul>		
or to improving existing products or processes		

# **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	th	hat were your company's worldwide costs (both direct a e following that were funded, paid for, or reimbursed by our company?			
	•	<b>xclude:</b> Costs that were paid for by your company, such as those reported in Payments in excess of the actual cost of the work performed (such a			
			\$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			
		<ul> <li>Exclude:</li> <li>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</li> </ul>			
	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			
		<ul> <li>Exclude:</li> <li>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</li> </ul>			
	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			
	j.	Total			

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 → [stop] 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 → Step 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.)
	b. All other countries (also, Puerto Rico)
	c. <b>Total</b> (equals Question 3-1, line j)
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) (2) (3) Domestic Foreign Worldwide
	<u>BBil. Mil. Thou. \$Bil. Mil. Thou.</u> <u>\$Bil. Mil. Thou.</u> aries, wages, and fringe benefits
b. Sto	ck-based compensation
c. Leas	sed employees and temporary staffing, including on-site consultants, working on R&D
d. Exp	ensed equipment (not capitalized)
e. Mat	erials and supplies
	Question continues on next page

\$Bil. f. Leased facil	nued) (1) Domestic Mil. Thou. lities and equipment	<u>\$Bil.</u>	(2) Foreign <u>Mil.</u>	Thou.	<u>\$Bil.</u>	(3) Worldwide <u>Mil.</u> <u>Thou.</u>
000						
g. Depreciatio	n and amortization on	property, p	olant, equipm	ent, and in	tangible a	ssets
h. Royalties ar	nd licensing fees (includ in your company's R&D)	ling payments	made to others	for the use o	f patents and	d other forms of intellectual
i. Collaborativ	ve R&D payments (inclu	ide joint devel	onment agreem	ents)		
j. Contract R8	kD (include payments to	your compan	y's foreign par	ent for R&D)		
k. Other purch	nased services					
I. All other co	ests (including administration	ve and overhea	ad costs <b>clearly</b>	associated	with your c	company's R&D)
00 (						
m. <b>Total</b>						
Total equ	als Question 3-2, line a	Total equ	uals Question .	3-2, line b	Total ed	quals Question 3-1, line j
	-3, lines i and j for e R&D performed by (1)					(3)
\$Bil.	Domestic Mil. Thou.	\$Bil.	Foreign Mil.	Thou.	\$Bil.	<b>Worldwide</b> Mil. Thou.
3-5 Subtra	act 3-4 from 3-3, line	m for co	ch column	and enter	the recul	t horo
	R&D performed by		pany that w (2)			
\$Bil.	Domestic Mil. Thou.	\$Bil.	Foreign Mil.	Thou.	\$Bil.	Worldwide Mil. Thou.

in the foll	owing l	ocations?	For full list of cou	, column 2, how m intries in each region see ition/brdshelp.html#q3-6.			
nttps.//www.c	\$Bil.	Mil.	Thou.	<u></u>	\$Bil.	Mil.	Thou.
Canada				Switzerland			
Puerto Rico				Turkey			
Europe	\$Bil.	Mil.	Thou.	United Kingdom			
Austria				Other Europe			
Belgium				Latin America/ Other Western Hemisphere	\$Bil.	Mil.	Thou.
Czech Rep				Argentina			
Denmark				Brazil			
Finland				Chile			
France				Mexico			
Germany				Other Latin America/OWH			
Hungary				Asia and Pacific	\$Bil.	Mil.	Thou.
Ireland				Australia			
Italy				China			
Luxembourg				Hong Kong			
Netherlands				India			
Norway				Indonesia			
Poland				Japan			
Russia				Malaysia			
Spain				New Zealand			
Sweden		Q	uestion contin	Singapore			

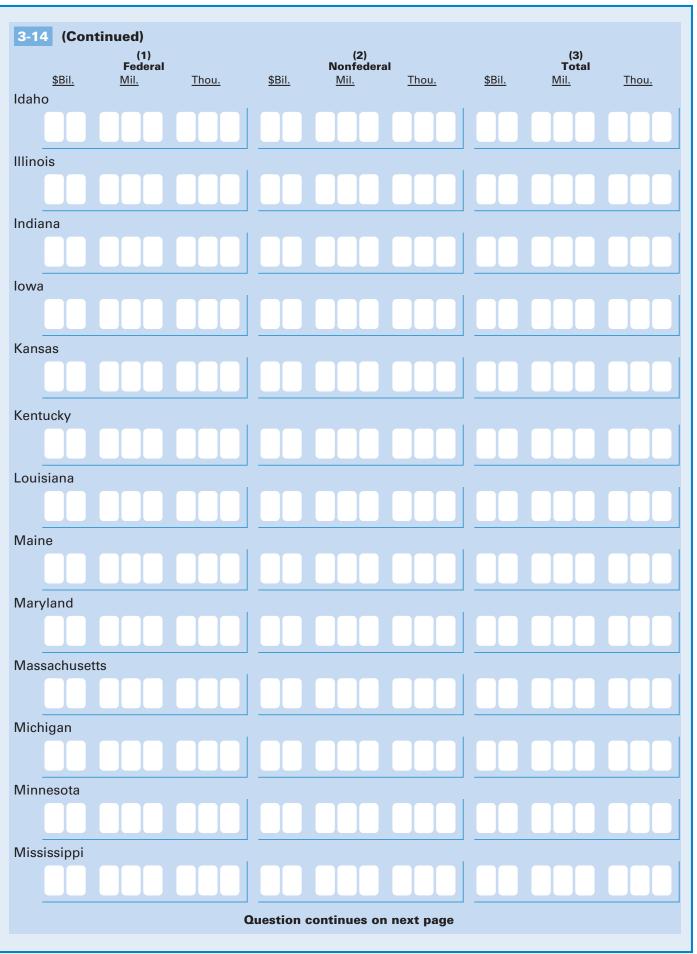
3-6 (Continue	ed)						
	\$Bil.	Mil.	Thou.	Africa	\$Bil.	Mil.	Thou.
South Korea				South Africa			
Taiwan				Other Africa			
Thailand				<b>Total</b> (equals Question 3-5, column 2)			
Other Asia/ Pacific							
Middle East	\$Bil.	Mil.	Thou.				
Israel							
Other Middle East							
amended  If R&D is  Allocation	in Quest	ion 1-11?  to more the on to operati	nan one busin	1, was for each b ness code allocate or s acceptable unless sor	ı a reason	able basis.	
Busin	ess code				\$Bil.	Mil.	Thou.
a. Busine	ess code				\$Bil.	Mil.	Thou.
	ess code				\$Bil.	Mil.	Thou.
a	ess code				\$Bil.	Mil.	Thou.
a	ess code				\$Bil.	Mil.	Thou.
a	ess code				\$Bil.	Mil.	Thou.
a	ess code				\$Bil.	Mil.	Thou.
a	ess code				\$Bil.	Mil.	Thou.
a	ess code				\$Bil.		Thou.
a					\$Bil.		Thou.  Thou.

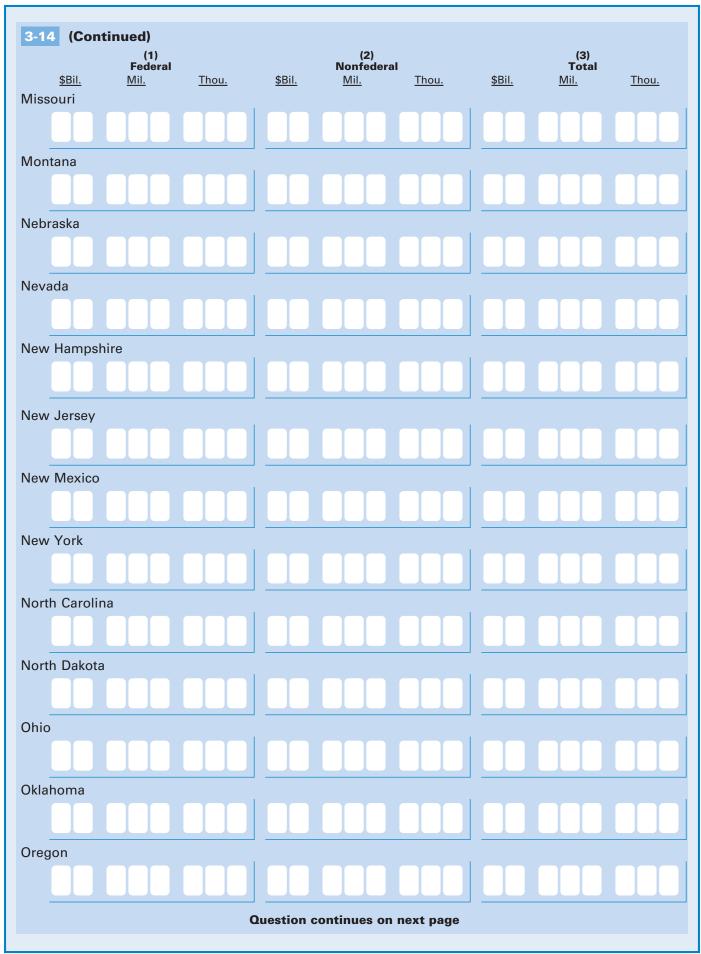
3-8	How much of the amount reported in Question 3-5, colum of the following?	n 1, was	paid for I	by each
	If your company is a subcontractor or subgrantee, report the or	iginal sou	irce of fund	ds.
	<b>Example:</b> Company Sub Inc. performs custom software development a subcontractor on a contract with the U.S. Dept. of Defense. Even tho for the defense company, it reports the cost of this development in line was the original source of funds.	ugh Sub Ir	nc. is workin	g directly
		\$Bil.	Mil.	Thou.
	a. Other 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. Foreign government agencies or laboratories			
	g. Universities, colleges, and academic researchers (including principal investigators) located inside the United States			
	h. Universities and colleges located outside the United States			
	i. All other organizations inside the United States			
	j. All other organizations outside the United States			
	k. <b>Total</b> (equals Question 3-5, column 1)			
3-9	Add Question 3-8, lines a, b, and c, and enter the	\$Bil.	Mil.	Thou.
	result here. This is the <u>domestic R&amp;D performed by</u> your company that was paid for by other companies.			

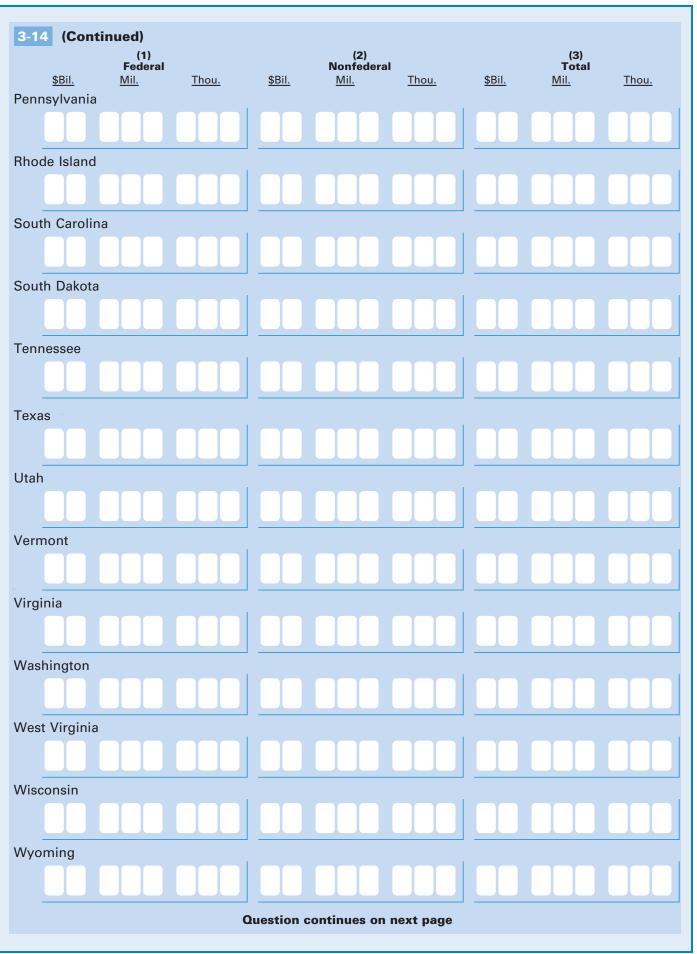
a. 3 2 5 4 3 Biotechnology-based pharmaceutical and biological products (except diagnostics)		В	Busin	ess	cod	e	Description	\$Bil.	Mil.	Thou.
b. 3 2 3 7 1 botanical products manufacturing	a.	3	2	5	4	3	and biological products (except			
c. 3 3 6 1 0 Motor vehicles manufacturing  d. 3 3 4 4 0 Semiconductor and other electronic components manufacturing  Medical equipment and supplies manufacturing  Motor vehicles manufacturing  Motor vehicles manufacturing  i.	b.	3	2	5	4	1	Pharmaceutical, medicinal, and botanical products manufacturing			
d. 3 3 4 4 0 components manufacturing  e. 3 3 9 1 0 Medical equipment and supplies manufacturing  f. 3 3 6 1 0 Motor vehicles manufacturing  g	c.	3	3	5	0	0	Electrical equipment, appliances, and components manufacturing			
e. 33770 manufacturing	d.	3	3	4	4	0				
g	e.	3	3	9	1	0	Medical equipment and supplies manufacturing			
h. 0000 00000	f.	3	3	6	1	0	Motor vehicles manufacturing			
i. 00000 00 000 00	g.									
	h.									
j. <b>Total</b> (equals Question 3-9)	i.						]			
	j.	To	tal (	(equ	ıals	Que	estion 3-9)			

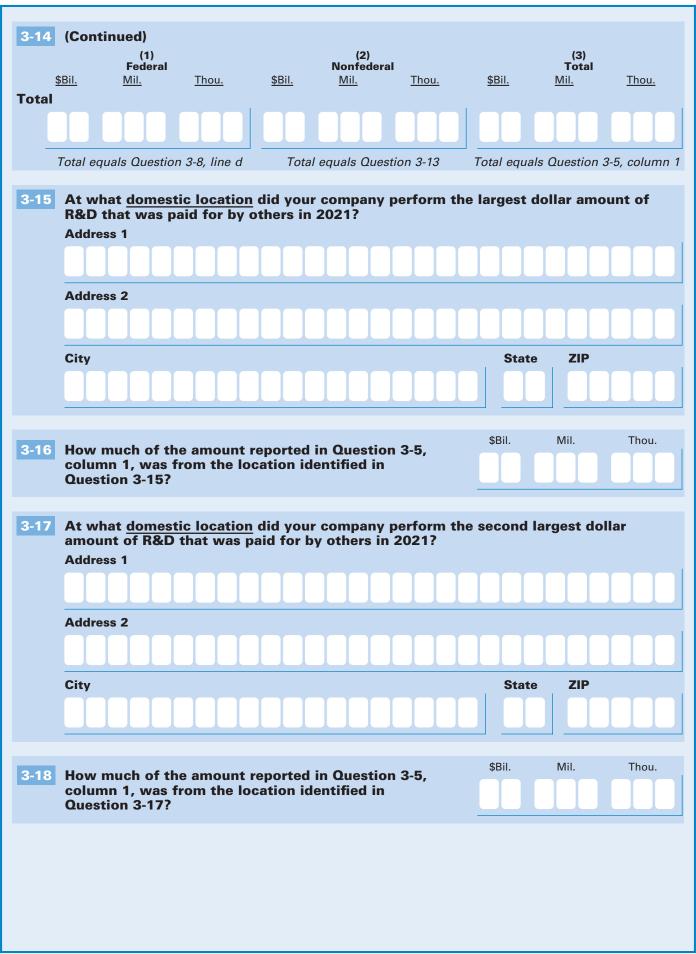
3-11 How much of the amount reported in Question 3-8, line d, was paid for by the following agencies?			
was paid for by the following agencies:	\$Bil.	Mil.	Thou.
a. Department of Defense			
b. Department of Energy			
c. National Aeronautics and Space Administration			
d. National Institutes of Health			
e. Department of Homeland Security			
f. Department of Transportation			
g. Environmental Protection Agency			
h. National Science Foundation			
i. All other, please specify:			
j. <b>Total</b> (equals Question 3-8, line d)			
3-12 How much of the amount reported in Question 3-8, line d, was performed under the following types of agreements?			
a. Contracts (include direct or prime contracts and subcontracts)	\$Bil.	Mil.	Thou.
b. Grants, reimbursements, and all other agreements			
c. <b>Total</b> (equals Question 3-8, line d)			
c. Total (equals Question 5-6, fille a)			
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.

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								
(3) T		tic R&D pe	rformed	by your co	rces reporte ompany tha			ers
\$Bil.	(1) Federal Mil.	Thou.	\$Bil.	(2) Nonfedera Mil.	<b>al</b> Thou.	\$Bil.	<b>(3)</b> <b>Total</b> Mil.	Thou.
Alabama	<u>IVIII.</u>	<u>1110u.</u>	<u>фБП.</u>	<u>iviii.</u>	<u>1110u.</u>	<u>ФБП.</u>	<u>wiii.</u>	<u>1110u.</u>
Alaska								
Arizona								
Arkansas								
California								
Calavada								
Colorado								
Connecticut								
Delaware								
District of Co	lumbia							
Florida								
Georgia								
Hawaii								
Question continues on next page								









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.		
Projected R&D paid for by others in 2022					
What are your company's projected 2022 costs for R&D that will be paid for by others?	\$Bil.	Mil.	Thou.		
NOTE: This amount is the 2022 projection for what is reported in Question 3-1, line j.					
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?	\$Bil.	Mil.	Thou.		
NOTE: This amount is the 2022 projection for what is reported in Question 3-5, column 1.					
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.		
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					
Telephone Title Area code Number		Exte	ension		

Co	SECTION 3 WORKSHEET omplete if amount reported in Question 3-1, line j is less to	than \$1 I	Million
1	Of the total R&D paid for by others reported in Question 3-1, line j	what cos	ets
•	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 eafollowing types of costs?	nch of the	
		\$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 clearly associated with your company's R&D)		
	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 following?	each of the	•
	If your company is a subcontractor or subgrantee, report the original sou	rce of fund	s.
	<b>Example:</b> 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 reported in Question 3, how much was for the following categorie		'S
	Basic research activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses	\$Mil.	Thou.
	b. Applied research 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 assets and with access to records related to those 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.

Statemi				
4-1	What was the net worldwide value of the following assets your company at the end of 2021, according to your balan			by
	<ul><li>Include:</li><li>Assets classified as discontinued operations</li></ul>	\$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 a following assets owned or leased by your business at the			ne
	<b>3</b>	\$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 decharges, disposals, or retirement in 2021?	ue to im	pairment	
	<ul> <li>Include:</li> <li>Assets classified as discontinued operations</li> <li>Assets considered sold under capital lease arrangements</li> </ul>	\$Bil.	Mil.	Thou.
	a. Property, plant, and equipment			
	b. Goodwill			
	c. Identifiable intangible assets			
	d. <b>Total</b>			

4-4	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					
	b. Goodwill					
	c. Identifiable intangible assets					
	d. <b>Total</b>					
4-5	What were your company's total worldwide expenditures to capitalized assets in 2021?	for the fol	lowing			
	<ul> <li>Include:</li> <li>Estimated cost of new structures and equipment acquired as the lessee under lease arrangements entered into during 2021.</li> <li>Capitalized internal software development costs.</li> <li>Exclude:</li> <li>Investment in operating leases (expenditures for fixed assets leased to others).</li> </ul>					
		\$Bil.	Mil.	Thou.		
	a. Property, plant, and equipment					
	b. Identifiable intangible assets					
	c. Total					
4-6	How much of the expenditures for capitalized assets in Quassets that were deployed in the following locations?	uestion 4-5	were for			
a. Pro	(1)  Domestic  SBil.  Mil.  Thou.  Sperty, plant, and equipment	<u>\$Bil.</u>	(3) Worldwide <u>Mil.</u>	<u>Thou.</u>		
b. Ide	entifiable intangible assets					
c. <b>To</b>	tal					

4-7	Of the amounts reported in Question 4-6, Column 1 (Dome R&D operations?	estic), ho	w much v	vas for
	<ul> <li>Include:</li> <li>Expenditures for business operations that research and develop new and improved products for sale by your company.</li> <li>Expenditures for business operations that research and develop new and improved processes and software for use by your company.</li> </ul>			
	<ul> <li>Expenditures for business operations that conduct R&amp;D that is paid for by customers, business partners, or other third parties.</li> </ul>			
	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			
	b. Identifiable intangible assets			
	c. <b>Total</b>			
			41 6 11	
4-8	How much of the amount reported in Question 4-7, line c,	\$Bil.	Mil.	Thou.
	a. Land acquisition			
	b. Buildings and land improvement			
	c. Machinery and equipment			
	d. Capitalized software			
	e. Other intellectual property			
	f. All other capital expenditures for R&D operations			
	g. <b>Total</b> (equals Question 4-7, line c)			
4-9	Was any of the amount reported in Question 4-7 funded, property for, or reimbursed by others not owned by your company (including a foreign parent)?		☐ Yes	s 🗆 No

4-10	Who was primarily responsible for completing this section?
	Same person mentioned in Question 1-7
	□ Another person → Please provide the following information:
	Name
	Telephone Title Area code Number Extension

# **SECTION 5**

## **Management and Strategy of R&D**

					4 8 8	4. 3
v	vno	Shoiii	<b>a</b>	answer	thie	section?
		311041	•	diisaaci		300610111

Persons familiar with the technical, managerial, and strategic aspects of your company's R&D should complete this section.

#### What does this section cover?

This section requests information about the characteristics of the R&D reported in Sections 2 and 3. This section requests information about your company's worldwide consolidated R&D and the R&D your company performs in the domestic United States.

If the amount reported in Question 2-4 was less than \$1 Million, skip to Question 5-16 on page 41.

5-1 What percentage of the total R&D paid for by your company reported in Question 2-4 was directed toward business areas or product lines that are new to your company?

**Example:** Company A manufactures laptop computers. In 2021, Company A's management decided to attempt to enter the cellular phone market and used a portion of the company's R&D budget to develop cellular phones. Because this was a new line of business in 2021, Company A reports this R&D in this question.



Thou.

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

- 5-2 Copy the amount from Question 2-10, column 1.
  This is the domestic R&D paid for and performed by your company.
- \$Bil. Mil. Thou.

Mil.

\$Bil.

- How much of the amount reported in Question 5-2 was for the following categories?
  - a. Research planned, systematic pursuit of new knowledge or understanding.....
- . 00 000 000
- c. **Total** (equals Question 5-2).....
- If you reported any research in Question 5-3, 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. . . . . .

фон.	IVIII.	mou.

		ur 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)?	
	<b>Example:</b> 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?	%
	hnology focus of domestic R&D paid for and performed by your o	company
5-10	What percentage of the amount reported in Question 5-2 was for	
5-10		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?  What percentage of the amount reported in Question 5-2 was for biotechnology? For list-based definition see Question by Question Guidance at	
5-10 5-11 5-12	What percentage of the amount reported in Question 5-2 was for software products or software embedded in other projects or products?  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	%
5-11	What percentage of the amount reported in Question 5-2 was for software products or software embedded in other projects or products?  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.  What percentage of the amount reported in Question 5-2 was for nanotechnology? For list-based definition see Question by Question Guidance at	%
5-11 5-12 5-13	What percentage of the amount reported in Question 5-2 was for software products or software embedded in other projects or products?  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.  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,	%

Characteristics of foreign R&D paid for and performe	d by yo	ur comp	pany
5-14 Copy the amount from Question 2-10, column 2. This is the <u>foreign R&amp;D paid for and performed by your company</u> .	\$Bil.	Mil.	Thou.
5-15 How much of the <u>foreign R&amp;D paid for and performed</u> <u>by your company</u> reported in Question 5-14 was for the following categories?	\$Bil.	Mil.	Thou.
a. Research planned, systematic pursuit of new knowledge or understanding			
b. <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.			
c. <b>Total</b> (equals Question 5-14)			
Domestic R&D performed by your company that was  If the amount reported in Question 3-1, line j was less than \$1 Million	-		
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.
5-17 How much of the amount reported in Question 5-16 was for the following categories?	\$Bil.	Mil.	Thou.
a. Research planned, systematic pursuit of new knowledge or understanding			
<ul> <li>b. <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</li> </ul>			
c. <b>Total</b> (equals Question 5-16)			
5-18 If you reported any research in Question 5-17, line a, how much of that research was for the following categories?	\$Bil.	Mil.	Thou.
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. <b>Total</b> (equals Question 5-17, line a)			

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?
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?
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
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.
5-25 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
<ul> <li>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</li> <li>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.</li> <li>What percentage of the amount reported in Question 5-16 was for nanotechnology? For list-based definition see Question by Question Guidance at</li> </ul>
## State
<ul> <li>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</li> <li>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.</li> <li>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</li> <li>Nanotechnology The application of science and technology to organisms, organic and inorganic materials, as well as parts, products, and models thereof,</li> </ul>

Domestic R&D performed by your company that was U.S. federal government	paid f	or by the	
5-28 Copy the amount from Question 3-8, line d. This is	\$Bil.	Mil.	Thou.
the domestic R&D performed by your company that was paid for by the U.S. federal government.			
5-29 How much of the amount reported in Question 5-28 was for the following categories?	\$Bil.	Mil.	Thou.
a. Research planned, systematic pursuit of new knowledge or understanding			
b. <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			
c. <b>Total</b> (equals Question 5-28)			
5-30 If you reported any research in Question 5-29, line a, how much was for the following categories?	\$Bil.	Mil.	Thou.
a. Applied research activities aimed at solving a specific problem or meeting a specific commercial objective			
<ul> <li><u>Basic research</u> activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses</li></ul>			
c. <b>Total</b> (equals Question 5-29, line a)			
5-31 What percentage of the amount reported in Question 5-28 for software products or software embedded in other proor products?			%
Characteristics of foreign R&D performed by your cofor by others	mpany	/ that was	paid
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.
5-33 How much of the amount reported in Question 5-32 was for the following categories?	\$Bil.	Mil.	Thou.
a. Research planned, systematic pursuit of new knowledge or understanding			
b. <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			
c. <b>Total</b> (equals Question 5-32)			

5-34 Who was primarily responsible for completing this section?
☐ Same person mentioned in Question 1-7
□ Another person → Please provide the following information:
Name
Telephone Title Area code Number Extension

# **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.

vnich		than 50 percent.		
6-1	How many employees remany were all other em		l-9 were <u>R&amp;D employe</u>	es and how
	<b>R&amp;D</b> employees include al to R&D, such as researchers, to R&D groups. <b>Exclude</b> em corporate personnel, security	R&D managers, technicia ployees who provide only	ans, clerical staff, and others indirect support to R&D, su	assigned
		(1) Domestic operations	(2) Foreign operations	(3) Total employees
	a. R&D employees	. <u>                                    </u>		
	b. All other employees	. 000000	000000	000000
	c. Total employees	. <u>                                    </u>		
			Total line equals Question 1	1-9
6-2	How many of the emploreach state (including D.		stion 6-1, column 1, we	ere employed in
	out otato (moraamig Di	C.)f		
	(1)	(2) Total employees	(1) R&D employees Colorado	(2) Total employees
	(1) R&D employees	(2)	R&D employees	
	(1) R&D employees	(2)	R&D employees	
	(1) R&D employees Alabama	(2)	R&D employees Colorado	
	(1) R&D employees Alabama	(2)	R&D employees Colorado	
	(1) R&D employees Alabama Alaska	(2)	R&D employees Colorado Connecticut	
	(1) R&D employees Alabama Alaska	(2)	R&D employees Colorado Connecticut	
	(1) R&D employees Alabama Alaska Arizona	(2)	Connecticut  Delaware	

**Question continues on next page** 

(1) R&D employees	(2) Total employees	(1) R&D employees	(2) Total employe
Georgia		Minnesota	
Hawaii		Mississippi	
Idaho		Missouri	
Illinois		Montana	
Indiana		Nebraska	
lowa		Nevada	
Kansas		New Hampshire	
Kentucky		New Jersey	
Louisiana		New Mexico	
Maine		New York	
Maryland		North Carolina	
Massachusetts		North Dakota	
Michigan		Ohio	
	Question continue		

-2 (Continued)	(2)	(1)	(2)
R&D employees	Total employees	R&D employees	Total employees
Oklahoma		Utah	
Oregon	ı	Vermont	
Pennsylvania		Virginia	
Rhode Island		Washington	
000000			
South Carolina	ı	West Virginia	
South Dakota		Wisconsin	
000000			
Tennessee		Wyoming	
Texas		Total	
How many of the em	nployees reported in O ling Puerto Rico)?	duestion 6-1, column 2, we	ere employed in
(1) R&D employees	(2) Total employees	(1) R&D employees	(2) Total employees
Canada	i otai empioyees	Czech Rep	rotar emproyees
Puerto Rico		Denmark	
Europe		Finland	
Austria			
		France	
Belgium			

PX-D amployage	(2)	(1) R&D employees	(2)
R&D employees Germany	Total employees	United Kingdom	Total employees
Germany			
Hungary		Other Europe	
Ireland		Latin America/Other W	lestern Hemisphere
		Argentina	
Italy			
		Brazil	
Luxembourg			
		Chile	
Netherlands			
		Marrian	
Namusu		Mexico	
Norway			
		Other Latin America/O	WH
Poland			
		Asia and Pacific	
Russia		Australia	
Spain		China	
Sweden		Hong Kong	
Switzerland		India	
Turkey		Indonesia	
	Question continue		

(Conti	nued) (1) Demployees	(2) Total employees	(1) R&D employees	(2) Total employees
Japan			Middle East	
			Israel	
Malays	sia			
			Other Middle East	
New Z	ealand			
			Africa	
Singap	ore		South Africa	
South	Korea		Other Africa	
Taiwar	1		Total	
Thailar	nd			
Othor	Asia/Pacific			
Other /	ASIA/FACITIC			
L How n		<u>employees</u> reported in employees?	n Question 6-1, line a,	were <u>female</u>
-		(1) Domestic Operations	(2) Foreign Operations	(3) Total R&D employee
a. Fem	nale R&D employe	es		
I- N/I-I	- D0 Dl			
b. iviai	e R&D employees			
c Tot	al R&D employe	000		
0. 101	ai nab employe		tal line equals Question 6-1,	line a
		700	ar me equale Queenen e 1,	inic d

a.	Researchers (including	(1) Domestic Operations	(2) Foreign Operations	(3) Total R&D employee
	R&D scientists, engineers, and their managers)			
b.	. R&D technicians and equivalent staff			
c.	R&D support staff (clerical and other)			
d.	. Total R&D employees			
		Total	line equals Question 6-1,	line a
6 H	ow many of the researc	hers renorted in Oues	stion 6-5 line a had	the following
	evel of education?	(1)	(2)	(3)
		Domestic Operations	Foreign Operations	Total
	hD (excluding MD, D, and EdD)			
w ei ei	of the domestic R&D employees, other full-times mployees, other full-times mployees?	me equivalents (FTEs) e employees not wor	for R&D activity for	r full-time R&D
w ei ei	as the number of full-time mployees, other full-time	me equivalents (FTEs) e employees not wor nployees	) for R&D activity fo king solely on R&D,	r full-time R&D and part-time Number
w ei ei	vas the number of full-time mployees, other full-time mployees?  . FTEs for full-time R&D en	me equivalents (FTEs) e employees not wor nployees time employees who w	for R&D activity for king solely on R&D,	r full-time R&D and part-time Number
w ei ei a.	vas the number of full-time mployees, other full-time mployees?  FTEs for full-time R&D en Count the number of full-	me equivalents (FTEs) e employees not worked only on R&D = 5	of for R&D activity for king solely on R&D,  work only on R&D	r full-time R&D and part-time Number
w ei ei a.	was the number of full-time mployees, other full-time mployees?  FTEs for full-time R&D en Count the number of full-  Example: 50 full-time R&D employees	me equivalents (FTEs) e employees not work imployees s worked only on R&D = 5 imployees not working s they work on R&D to o	of for R&D activity for king solely on R&D, work only on R&D	r full-time R&D and part-time Number
w ei ei a.	was the number of full-time mployees, other full-time mployees?  FTEs for full-time R&D en Count the number of full-Example: 50 full-time R&D employees  FTEs for other full-time en Use the share of the time	me equivalents (FTEs) e employees not work mployees time employees who was worked only on R&D = 5 mployees not working sethey work on R&D to complete the control of the co	of for R&D activity for king solely on R&D	r full-time R&D and part-time Number
a.	was the number of full-time mployees, other full-time mployees?  FTEs for full-time R&D en Count the number of full-Example: 50 full-time R&D employees  FTEs for other full-time en Use the share of the time number of FTEs	me equivalents (FTEs) e employees not work  mployees time employees who was worked only on R&D = 5  mployees not working set they work on R&D to contain the contains and the co	of for R&D activity for king solely on R&D	r full-time R&D and part-time Number
a.	was the number of full-time mployees, other full-time mployees?  FTEs for full-time R&D en Count the number of full-Example: 50 full-time R&D employees  FTEs for other full-time e Use the share of the time number of FTEs	me equivalents (FTEs) e employees not work mployees who we sworked only on R&D = 5 mployees not working se they work on R&D to describe the sworking of R&D to describe the sworking of R&D to	or R&D activity for king solely on R&D,  ork only on R&D  for FTEs  solely on R&D  calculate the  calculate the  time on R&D = 15 FTEs  urs) that they work	Number
ei a. b.	ras the number of full-time mployees, other full-time mployees?  FTEs for full-time R&D en Count the number of full-Example: 50 full-time R&D employees  FTEs for other full-time en Use the share of the time number of FTEs  Example: 60 full-time employees ave  FTEs for part-time employees the share of a full-time employees.	me equivalents (FTEs) e employees not work mployees who was worked only on R&D = 5 mployees not working se they work on R&D to contaged one-fourth of their to yees working on R&D ne week (such as 40 homeone).	or R&D activity for king solely on R&D,  ork only on R&D  or FTEs  solely on R&D  calculate the  time on R&D = 15 FTEs  urs) that they work	Number
we en	was the number of full-time mployees, other full-time mployees?  FTEs for full-time R&D en Count the number of full-Example: 50 full-time R&D employees  FTEs for other full-time en Use the share of the time number of FTEs  Example: 60 full-time employees ave  FTEs for part-time employees ave  FTEs for part-time employees the share of a full-time on R&D to calculate the FExample:	me equivalents (FTEs) e employees not work  mployees time employees who w s worked only on R&D = 5  mployees not working s e they work on R&D to contraged one-fourth of their t yees working on R&D ne week (such as 40 ho eraged 20 hours a week or	of for R&D activity for king solely on R&D	r full-time R&D and part-time  Number

6-8	the number of full-time	chers reported in Questic equivalents (FTEs) for R me employees not work	&D activity for full	-time R&D and part-time
	a. FTEs for full-time resea	rchers Ill-time employees who wo	ork only on R&D	Number
	<b>Example:</b> 50 full-time R&D scientist	ts worked only on R&D = 50 F	TEs	
	Use the share of the tir	researchers not working s ne they work on R&D to ca	alculate the	.00000
	<b>Example:</b> 60 full-time managers av	eraged one-fourth of their tim	ne on R&D = 15 FTEs	
		archers working on R&D time week (such as 40 hou e FTEs		
	<b>Example:</b> 20 part-time employees a	averaged 20 hours a week on	R&D activities = 10 FTE	s
	d. <b>Total FTEs</b>			n 6-5, line a, column 1.
6-9		stic researchers reporte employed in the United		
	Researchers employed ur	nder a temporary visa		
6-10		employees reported in O emporary staff, includin d below?		
	a. Researchers (including R&D scientists, engineers, and their managers)	(1) Domestic Operations	(2) Foreign Operations	(3) Total leased and temporary employees working on R&D
	b. R&D technicians and equivalent staff	. 000000		000000
	c. R&D support staff (clerical and other)	. 000000		
	d. Total leased and temporary employees working on R&D			000000

6-11 Who was primarily responsible for completing this section?													
	☐ Same person mentioned in Question 1-7												
	<ul> <li>Another person → Please provide the following information:</li> </ul>												
	Name												
							Telepho	ne					
	Title						Area coo	le	Number			Extension	

# **SECTION 7**

# **Tax Topics**

#### Who should answer this section?

Persons familiar with your company's tax filings.

#### What does this section cover?

This section requests information about state and federal tax credits for which your company may have filed.

#### Are responses to this survey confidential?

Yes. Your responses are completely confidential under Title 13, United States Code, Section 9, and can only be used to produce statistics. The Census Bureau is not permitted to publicly release your responses in a way that could identify your business. The law also provides that copies of reports retained in your files are immune from legal process. In addition, reported data are exempt from requests made under the Freedom of Information Act.

7-1	Did your company file for the tax cr research activities (IRS Form 6765)		☐ Yes ☐ No
7-2	Did your company file for any U.S. sresearch activities in 2021?		☐ Yes ☐ No
7-3	Was your company charged for R&D subsidiaries in 2021 as part of any of		☐ Yes ☐ No
7-4	Did your company charge foreign so company performed in 2021 as part arrangement?	t of any cost sharing	☐ Yes ☐ No
7-5	Who was primarily responsible for of Same person mentioned in Question   ☐ Another person → Please provide Name	on 1-7	
	Title	Telephone Area code Number	Extension

Business codes	Consumer Goods
(used in Sections 1, 2, and 3)	33333 Digital cameras manufacturing
Aerospace and Defense	33430 Audio and video equipment manufacturing
33642 Aircraft engine and engine parts manufacturing	31210 Beverage manufacturing
33641 Aircraft manufacturing	33200 Fabricated metal products manufacturing
33644 Guided missiles, space vehicles, and parts	31100 Food manufacturing 33700 Furniture and related products manufacturing
manufacturing	32300 Printing and related support activities
33692 Military armored vehicle, tank, and tank	32591 Soap, cleaning compound, and toilet
components manufacturing 33452 Search, detection, navigation, guidance,	preparations manufacturing
aeronautical, and nautical system and	31990 Textile, apparel, and leather products
instruments manufacturing	manufacturing
33660 Ship and boat building	31220 Tobacco manufacturing 33990 Miscellaneous manufacturing not listed
33643 Other aircraft parts and auxiliary equipment	elsewhere (games, office supplies,
manufacturing	slot machines, etc.)
Automobiles, Motorcycles, and Components	
33620 Motor vehicle body and trailer manufacturing	Energy and Mining
33630 Motor vehicle parts manufacturing	33360 Engine, turbine, and power transmission
33610 Motor vehicles manufacturing	equipment manufacturing
33691 Motorcycle, bicycle, and parts manufacturing	21200 Mining
33651 Railroad rolling stock manufacturing	33319 Mining, oil, and gas field machinery and equipment manufacturing
33660 Ship and boat building 33699 All other transportation equipment	21100 Oil and gas extraction
manufacturing	32401 Petroleum refineries
ľ	21300 Support activities for mining,
Capital Equipment	including oil and gas
33311 Agricultural machinery and equipment manufacturing	Finance, Insurance, and Real Estate
33332 Commercial, service industry, temperature control, and airflow control machinery	52200 Finance: banking and credit intermediation 52400 Insurance carriers and related activities
manufacturing	53100 Real estate
33312 Construction machinery manufacturing 33500 Electrical equipment, appliances, and	52310 Securities, commodity contracts, and other
components manufacturing	financial investments and related activities (including funds and trusts)
33360 Engine, turbine, and power transmission	(moldaling rands and trusts)
equipment manufacturing	Healthcare
33322 Industrial machinery manufacturing, except	32543 Biotechnology-based pharmaceutical and
semiconductor machinery 33390 Metalworking and other general purpose	biological products (except diagnostics)
machinery manufacturing	33451 Electromedical, electrotherapeutic, and
33319 Mining, oil, and gas field machinery and	irradiation apparatus manufacturing
equipment manufacturing	62200 Hospitals and nursing care facilities 32542 In vitro diagnostic substances manufacturing
33331 Photographic and photocopying equipment	62150 Medical and diagnostic laboratories
manufacturing	33910 Medical equipment and supplies manufacturing
Chemicals and Materials	62110 Offices of physicians
32402 Asphalt paving, roofing, and saturated	32541 Pharmaceutical, medicinal, and botanical
materials manufacturing	products manufacturing 54173 Research and development services
32510 Basic chemicals manufacturing	in biotechnology (except nanotechnology)
32790 Cement, concrete, lime, gypsum, and other nonmetallic mineral product manufacturing	54175 Research and development services in
32710 Clay and glass products manufacturing	nanotechnology
21200 Mining	54174 Research and development services
32592 Paint, adhesive, and other chemical	in physical, engineering, and life sciences (except nanotechnology and biotechnology)
manufacturing	62199 Other ambulatory health care services
32200 Paper manufacturing 32530 Pesticide, fertilizer, and other agricultural	(ambulance, dental, home health care)
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	

32403 Other petroleum and coal products

manufacturing, including motor oil, hydraulic fluid, and charcoal

Inform	nation Technology - Goods and Services	Other	Services
33333	Digital cameras manufacturing	72000	Accommodation and food services
51801	Cloud computing applications and internet	56100	Administrative and support services
	based software services	71000	
54150	Computer systems design and related services	23000	
	Computers and peripheral equipment	49200	
33412	manufacturing, including magnetic and	43200	services
	optical media	53300	
519NN	Data processing, hosting, and related services	33300	(including patent licensing)
33500	Electrical equipment, appliances, and	55100	Management of companies and enterprise
33300	components manufacturing	42300	Merchant wholesalers, durable goods
45411	Electronic shopping and mail-order houses	42400	Merchant wholesalers, nondurable goods
		51200	
33459	Measuring and control instruments	51200	Motion picture and sound recording
00400	manufacturing (not listed elsewhere)	F4440	(except Internet)
33422	Radio, television, and wireless	51110	Newspaper, periodical, book, and
00440	communication equipment manufacturing		directory publishers (except Internet)
33440	Semiconductor and other electronic	53200	3 · · · · · · · · · · · · · · · · · · ·
	components manufacturing	44000	
33321	Semiconductor machinery manufacturing		and mail-order houses
51120	Software publishers (except Internet)	62400	
33421	Telephone apparatus manufacturing	21300	11
	including routers, modems, and gateways		including oil and gas
42500	Wholesale electronic markets and	48000	
	agents and brokers (business to business)	49300	
33429	Other communication equipment	81000	Other services (not listed elsewhere)
	manufacturing (except radio, television,		
	and wireless communication equipment)		
51910	Other information services, including		
	Internet publishing, broadcasting,		
	and web search portals		
Profes	ssional, 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,		
04111	bookkeeping and payroll services		
54160	Management, scientific, and		
34100	technical consulting services		
5/100	Professional, scientific, and technical services		
34130	(not listed elsewhere)		
E/172	Research and development services in		
54175	histochnology (except panetachnology)		
54175	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		
Teleco	ommunications and Utilities		
51500	Broadcasting (except Internet)		
	Satellite telecommunications		
	Utilities		
	Waste management and remediation services		
	Wired telecommunications carriers		

#### Form BRD-1

51720

Wireless telecommunications carriers

51790 Other telecommunications (not listed elsewhere)

(except satellite)

Approximately how long did it take to complete this survey?	Hours	Minutes
<b>Remarks</b> (Please use this space below for any explanations that may be essential in uncreported data.)	derstanding	g your
Thank You – Your Response is Important		
Accurate and timely statistical information could not be produced without your conti and goodwill. Thank you.	nued coop	peration
We estimate this survey will take between 15 minutes and 18 hours, with an average of 2 minutes to complete, including the time for reviewing instructions, searching existing dat gathering and maintaining the data needed, and completing and reviewing the collection You may email comments regarding this burden estimate or any other aspect of this coll information, including suggestions for reducing this burden, to erd.survey.comments@ceto use "ERD Survey Comments 0607-0912" as the subject.	ta sources, of informa ection of	ation.