Attachment A



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

FORM

BRD-1 (07-03-2024)

2024 BUSINESS ENTERPRISE RESEARCH AND DEVELOPMENT SURVEY

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

	(0) 03 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.	
Call toll-free 1-800-416-3262, between 8:00 a.m. and 8:00 p.m. Eastern time, Monday through Friday.	
	(Please correct any errors in this mailing address)

Please file your form electronically 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.

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 Othersp.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 patenting, licensing, and other technology transfer activities.

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

Changes from the 2023 survey

Questions related to detail of R&D performed by others, as well as activities with academia were removed from Section 2. Questions related to industry of business and specific federal agency funding R&D were removed from Section 3. Questions related to details of assets owned or leased were removed from Section 4. Questions that asked for percentage of R&D with specific application areas were removed from Section 5. Questions related to Intellectual Property and Technology Transfer were reintroduced to Section 7.For a list of specific changes go to https://www.census.gov/programs-surveys/brds/about/fag.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-guestion instructions, definitions, and examples that provide clarification
- Answers to frequently asked questions, including how the data will be used

Filing electronically

Filing electronically via our secure website 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 majority-owned subsidiaries regardless of location. Majority ownership is defined as more than 50 percent ownership. For reporting purposes, exclude data for any companies that are minority-owned by your company. If your company is majority-owned by a company located outside the 50 United States and D.C. (foreign parent), the reporting unit for the survey is only your U.S.-located company, including all its majority-owned subsidiaries 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 2023, if possible, or for your company's fiscal year ending between April 2023 and March 2025.

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.

		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, 2023, report only for the period January 1, 2023 to the date your company ceased operations. If your company ceased operations before April 1, 2023, 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		another U.S. company own more than 50% of the voting interest in your pany during 2023?
		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.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, 2023, report only for the period January 1, 2023 to the date of purchase. If your company was purchased before April 1, 2023, 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 2023 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 2023?
	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
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 2023?
	 Yes → Include data for these operations/subsidiaries in your survey responses No
1-6	Did your company have discontinued operations in 2023?
	 Yes → Include data for these operations in your survey responses No
17	Who is the survey coordinator?
1-7	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

1-8	What was the total num period that included Ma		s employees worldw	ide for the pay
	Include:Full- and part-time emplo	yees		Number
	Exclude: • Leased or temporary emp	ployees and consultants		
1-9	How many of the employour company's domes			yees of
	Domestic operations emp first quarter filing of IRS For			ported on the
		(1) Domestic operations	(2) Foreign operations	(3) Total employees
	Employees			Total equals Question 1-8
	the number reported in Que ensus Bureau - you are not i	estion 1-9, column 1, was required to complete the	fewer than 10, return rest of this survey.	this form to the
1-10	Please describe your co	ompany's primary busir	ness activity during 2	2023.
1-11	List all applicable busin worldwide in 2023.	ess codes in which yo	ur company operated	d
	NOTE: These codes will may differ from industry you search for appropriat https://www.census.gov/p	codes used by other gover se business codes are ava	ernment surveys and r nilable at	eports. Tools to help
	Business code (see pages 53-54)		Description	

1-12	What was the amoun for the year 2023?	t of your company's <u>worldwide s</u>		
	Include:		\$Bil.	Mil. Thou.
	Sales and operating re	venues from discontinued operations		
1-13	How much of the am from domestic opera	ount reported in Question 1-12 w	as attributab	le to or originated
	Include: Sales and operating reincluding foreign subs	evenues to foreign customers, idiaries		
	customers around the wo	uring Corporation sells parts to orld. However, because all its side the United States it reports 100% on.	\$Bil.	Mil. Thou.
1-14	code listed or amend (1) Worldwide sales	and operating revenues reported ing revenues from domestic oper (1)	in Question ′ations report	I-12 ed in Question 1-13 (2)
		Worldwide sales and operating revenues	from do	operating revenues mestic operations
	Business code	\$Bil. Mil. Thou.	\$Bil.	Mil. Thou.
	a			
	b.			
	с.			
	d.			
	e.			
	f.			
	g.			
	h.			
	i. Less eliminations the sales and revenues that are eliminated in order to consolidate the business codes			
	j. Total			
		Total equals Question 1-12	Total eq	uals Question 1-13

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.

states,	specific location), and for parts of your company defined by bus	iness code.		
2-1	What was the worldwide R&D expense (both direct and i company in 2023?	ndirect) for	your	
	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.	\$Bil.	Mil.	Thou.
	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.			
2-2	Does the amount reported in Question 2-1 include any of	f the follow	ing costs?	
	a. Collaborative R&D that was reimbursed by business partner such as through cost-sharing agreements		Yes	□ No
	b. R&D paid for by grants (government or private foundations)		☐ Yes	□ No
	c. R&D paid for by customers (customer-sponsored R&D)		□ Yes	□ No
	d. Technical services not an integral part of an R&D project (su product support provided by R&D employees)		Yes	□ No
	e. Bid and proposal costs		☐ Yes	□ No
	f. Expenses for the acquisition of in-process R&D (IPR&D) or t impairment of intangible IPR&D assets		□ Yes	□ No
	g. Phase IV clinical trials		Yes	□ No
2-3	If you answered "Yes" to any of the costs in Question	\$Bil.	Mil.	Thou.
	2-2, what was the amount of these costs that were included in your response to Question 2-1?			
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 2023.	\$Bil.	Mil.	Thou.
	Is the amount entered in Question 2-4: \$0 → Stop Skip to Section 3 on page 19.			
	Less than \$1 Million → Stop Skip to Section 2 Worksheet continue with Section 3 on page 19.	on page 18	3 and then	
	\$1 Million or greater → Continue with Question 2-5.			

Indi	rect R&D charges				
2-5	How much of the amount report was for R&D costs your compan through indirect charges on U.S contracts (IR&D or independent	y plans to recoup . federal government	\$Bil.	Mil.	Thou.
R&D	paid for by your company				
2-6	Of the amount reported in Quest code listed or amended in Quest	tion 2-4, what were the ci	osts for ea	ach busine	ess
	If R&D costs are applicable to more basis. Allocation in proportion to opera allocation basis is more appropriate.				
	Business code		\$Bil.	Mil.	Thou.
	a. 00000				
	b				
	c				
	d				
	e				
	f. COOO				
	g				
	h				
	i. Total (equals Question 2-4)				
2-7	Of the amount reported in Quest company in the following location				
	a. Domestic United States (50 states R&D performed by domestic oper for by foreign subsidiaries]	rations that is paid	\$Bil.	Mil.	Thou.
	b. All other countries (also, Puerto I performed by foreign subsidiarie by domestic operations]	s that is paid for			
	c. Total (equals Question 2-4)				

2-8	How much of the (1) dom by your company in 2023						
	Indirect costs that are alloc if no other category is applical						У
	(1) Domestic \$Bil. Mil. Thou.	\$Bil.	(2) Foreign Mil.	Thou	\$Bil.	(3) Worldwide Mil.	Thou
a. S	alaries, wages, and fringe bene		<u>IVIII.</u>	Thou.	<u>ФВП.</u>	<u>iviii.</u>	Thou.
b. S	tock-based compensation						
c l	eased employees and temporar	y staffing in	cluding on-	site consult:	ants work	ing on R&D	
0. L		, stanning, in			arito, work	mg on nab	
d. E	xpensed equipment (not capita	lized)					
	00 000 000						
e. N	laterials and supplies						
£ 1							
T. L	eased facilities and equipment						
g. D	epreciation and amortization or	n property, p	lant, equipr	ment, and in	tangible a	ssets	
	00 000 000						
h. R	oyalties and licensing fees (incluoperty used in your company's R&D)	uding payments	made to othe	rs for the use o	f patents and	d other forms of	intellectual
i. C	ollaborative R&D payments (inc	lude joint devel	opment agree	ments)			
i C	ontract R&D (include payments to y	YOUR COMPANY'S	foreign parent	for R&D)			
j. C	Citate Ties (include payments to y	Company's	Toreign parent	. TOT ROD)			
k. C	ther purchased services						
	00 000 000						
		Question co	ntinues on	next page			

2-8 (Continued)					
(1) Domestic		(2) Foreign		(3) Worldwid	9
\$Bil. Mil.	Thou. \$Bil.	Mil. Thou.	<u>\$Bil.</u>	Mil.	<u>Thou.</u>
I. All other costs (including	administrative and overh	nead costs clearly associate	ed with your c	ompany's R	&D)
00 000					
m. Total					
Total equals Question	2-7, line a Total ed	quals Question 2-7, line b	Tota	l equals Que	estion 2-4
2-9 Add 2-8, lines i a This is R&D perfe		mn, and enter the res	sult here.		
(1) Domestic		(2) Foreign		(3) Worldwide	_
\$Bil. Mil.	Thou. \$Bil.	Mil. Thou.	\$Bil.	Mil.	Thou.
00 000					
	n 2-8, line m, for e ormed by your con	each column and ente npany.	er the resul	t here.	
(1)		(2)		(3)	_
Domestic		Foreign		Worldwide	8
\$Bil. Mil.	Thou. \$Bil.	Foreign Mil. Thou.	\$Bil.	Worldwide Mil.	Thou.
	Thou. \$Bil.	· · · · · · · · · · · · · · · · · · ·	\$Bil.		
\$Bil. Mil. 2-11 Of the amount rein the following	eported in Question locations? For full list	Mil. Thou. n 2-10, column 2, ho t of countries in each region	w much R8 see Question b	Mil.	Thou.
\$Bil. Mil. 2-11 Of the amount rein the following	eported in Question locations? For full list	Mil. Thou. n 2-10, column 2, ho t of countries in each region nformation/brdshelp.html#q2	w much R8 see Question b	Mil.	Thou.
2-11 Of the amount rein the following https://www.census.gov	eported in Question locations? For full list //programs-surveys/brds/i	Mil. Thou. n 2-10, column 2, ho t of countries in each region nformation/brdshelp.html#q2	w much R8 see Question br 2-11. \$Bil.	Mil. kD was pe	Thou. rformed uidance at
\$Bil. Mil. 2-11 Of the amount rein the following https://www.census.gov \$Bil. Canada	eported in Question locations? For full list //programs-surveys/brds/i	Mil. Thou. n 2-10, column 2, ho t of countries in each region nformation/brdshelp.html#q2 Finland	w much R8 see Question b 2-11. \$Bil.	Mil. kD was pe	Thou. rformed uidance at
2-11 Of the amount rein the following https://www.census.gov\$Bil.	eported in Question locations? For full list //programs-surveys/brds/i	Mil. Thou. n 2-10, column 2, ho t of countries in each region nformation/brdshelp.html#q2	w much R8 see Question b 2-11. \$Bil.	Mil. kD was pe	Thou. rformed uidance at
\$Bil. Mil. 2-11 Of the amount rein the following https://www.census.gov \$Bil. Canada	eported in Question locations? For full list //programs-surveys/brds/i	Mil. Thou. n 2-10, column 2, ho t of countries in each region nformation/brdshelp.html#q2 I. Finland France	w much R8 see Question b 2-11. \$Bil.	Mil. kD was pe	Thou. rformed uidance at
\$Bil. Mil. 2-11 Of the amount rein the following https://www.census.gov. \$Bil. Canada	eported in Question locations? For full list //programs-surveys/brds/in Mil. Thou	Mil. Thou. n 2-10, column 2, ho t of countries in each region nformation/brdshelp.html#q2 I. Finland France	w much R8 see Question by 2-11. \$Bil.	Mil. kD was pe	Thou. rformed uidance at
\$Bil. Mil. 2-11 Of the amount rein the following https://www.census.gov \$Bil. Canada	eported in Question locations? For full list //programs-surveys/brds/in Mil. Thou	Mil. Thou. n 2-10, column 2, ho t of countries in each region nformation/brdshelp.html#q2 . Finland France Germany	w much R8 see Question by 2-11. \$Bil	Mil. kD was pe	Thou. rformed uidance at
\$Bil. Mil. 2-11 Of the amount rein the following https://www.census.gov. \$Bil. Canada Furope \$Bil. Austria	eported in Question locations? For full list //programs-surveys/brds/in Mil. Thou	Mil. Thou. n 2-10, column 2, ho t of countries in each region nformation/brdshelp.html#q2 I. Finland Germany Hungary	w much R8 see Question by 2-11. \$Bil	Mil. kD was pe	Thou. rformed uidance at
\$Bil. Mil. 2-11 Of the amount rein the following https://www.census.gov. \$Bil. Canada	eported in Question locations? For full list //programs-surveys/brds/in Mil. Thou	Mil. Thou. n 2-10, column 2, ho t of countries in each region nformation/brdshelp.html#q2 I. Finland Germany I. Hungary Ireland	w much R8 see Question by 2-11. \$Bil.	Mil. kD was pe	Thou. rformed uidance at

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			
Latin America/ Other Western				Other Asia/ Pacific			
Hemisphere	\$Bil.	Mil.	Thou.				
Argentina				Middle East	\$Bil.	Mil.	Thou.
Dil				Israel			
Brazil				Other Middle East			
Chile							
Mexico				Africa	\$Bil.	Mil.	Thou.
Other Latin America/OWH				South Africa			
				Other Africa			
Asia and Pacific	\$Bil.	Mil.	Thou.	Total (equals			
Australia				Question 2-10, column 2)			
China							

		amount re luding D.C		uestion 2-10, colur	nn 1, wa	as perform	ned
	\$Bil.	Mil.	Thou.		\$Bil.	Mil.	Thou.
Alabama				Maine			
Alaska				Maryland			
Arizona				Massachusetts			
Arkansas				Michigan			
California				Minnesota			
Colorado				Mississippi			
Connecticut				Missouri			
Delaware				Montana			
District of Columbia				Nebraska			
Florida				Nevada			
Georgia				New Hampshire			
Hawaii				New Jersey			
Idaho				New Mexico			
Illinois				New York			
Indiana				North Carolina			
lowa				North Dakota			
Kansas				Ohio			
Kentucky				Oklahoma			
Louisiana				Oregon			
		Qı	estion conti	nues on next page			

2-12 (Continued)	ADV ANV T
Pennsylvania SBil. Mil. Thou.	Vermont
Rhode Island	Virginia
South Carolina	Washington
South Dakota	West Virginia
Tennessee	Wisconsin
Texas	Wyoming
Utah	Total (equals Question 2-10, column 1)
Address 1 Address 2	
City	State ZIP
2-14 How much of the amount reported in O column 1, was from the location idention Question 2-13?	suestion 2-10, fied in \$Bil. Mil. Thou.

Address 1			
Address 2			
Address 2			
City		State ZI	P
	amount reported in Question 2-10,	\$Bil. Mil.	Т
column 1, was from Question 2-15?	m the location identified in		
Business code		\$Bil. Mil.	Т
		\$Bil. Mil.	
a. Business code		\$Bil. Mil.	
		\$Bil. Mil	
a		\$Bil. Mil D. D D D. D D. D D D. D D D. D D. D D D. D D D. D D D. D D D D. D	

DOD Aver								
R&D tran	sactions	between	legal er	ntities und	er com	non ow	nership	
	much of th , column 1,						orted in Que ies?	stion
fo • Ini fo ar Excl	osts for R&D p r a foreign sub ter-company to reign subsidia rangements	osidiary ransactions pa ries for transfe	nid to the Uer pricing F	Jnited States f &D cost shari	rom ng	\$Bil.	Mil.	Thou.
	much of th mn 2, was p						ed in Quest	ion 2-10,
Inclu Co su Int fo ar	-	erformed by y ler contract for ransactions pa ries for transfe	your compa r your com iid from th er pricing F	any's foreign pany's U.S. op e United State &D cost shari	perations s to ng	\$Bil.	Mil.	Thou.
Projected	d R&D for	2025						
(3) w	t are your coorldwide R	&D paid for	by your	company?			foreign, an	d
Que	stion 2-8, line	∍ m.						
\$Bil.	(1) Domestic Mil.	Thou.	\$Bil.	(2) Foreign Mil.	Thou.	\$Bil.	(3) Worldwide Mil.	Thou.
is fo	much of th r projected usiness part	contract R8	&D servic	es and proj			Domestic Mil.	Thou.
is fo to bu NOT	r projected	contract Reners for co	&D service Ilaborative 5 projectice 5	ces and proj ve R&D?	ected pay	ments		Thou.
is fo to bu NOT	r projected usiness part E: This amou	contract Reners for co	&D service Ilaborative 5 projectice 5	ces and proj ve R&D?	ected pay	ments		Thou.

2-22 Who was primarily responsible for completing this section? Same person mentioned in Question 1-7
☐ Same person mentioned in Question 1-7
Another person → Please provide the following information:
Name
Telephone Title Area code Number Extension

SECTION 2 WORKSHEET

	Complete if amount reported in Question 2-4 is less than	n \$1 Mil	lion
1	Of the total R&D paid for by your company reported in Question 2-were incurred in the following locations?	·4, what c	osts
	a. 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. Total		
2	How much of the amount reported in Question 1, line a, was for eafollowing types of costs?	sMil.	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. Total (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 paid for and performed by your company in 2023.	\$Mil.	Thou.
4	Of the domestic R&D paid for and performed by your company rep Question 3, how much was for the following categories?		
	a. 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. Total (equals Question 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.

the	at were your company's <u>worldwide costs</u> (both direct a following that were funded, paid for, or reimbursed by r company?			
• (clude: 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
	R&D reimbursed by your company's foreign parent (if you are owned by a foreign parent)			
	Collaborative R&D reimbursed by business partners, such as through cost-sharing agreements			
	R&D paid for by grants (government or private oundations)			
C	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 			
	Medical clinical trial Phase I-III services provided to others not owned by your company (include pass-through costs)			
	Medical R&D services, other than clinical trials, provided o others not owned by your company			
C	Nondefense custom software development and/or computer systems designed for others not owned by cour 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 			
r	Prototype development, production, and testing for customer's products prior to their introduction to the market (excluding defense-related prototyping reported in line d)			
	All other R&D services provided to the Federal Government or to others not owned by your company			
j. 1	Гоtal			

3-1 (C	ontinued)								
	e amount entered in Question 3 this amount:	-1, line j is the total R&D pai	d for by others in 2023.						
	\$0 → ¹⁰⁰ If Question 2-4 was also \$0, then you have completed this survey, otherwise skip to Section 4 on page 33.								
	Less than \$1 Million → Skip to Section 3 Worksheet on page 31 and then								
	continue with Section 4 on \$1 Million or greater → Continue	. •							
R&D pa	id for by others								
	the amount reported in Questyour company in the following		s were incurred \$Bil. Mil. Thou.						
	D 11 10 /F0	100)							
a.	Domestic United States (50 state	es and D.C.)							
b.	All other countries (also, Puerto	Rico)							
C.	Total (equals Question 3-1, line	j)	00 000 000						
3-3 Ho	w much of the (1) domestic,	(2) foreign and (3) worldy	vide R&D naid for hy						
<u>ot</u>	ners in 2023 was for each of t	he following <u>types of cost</u>	<u></u>						
	direct costs that are allocated to no other category is applicable. Refe								
¢D:I	(1) Domestic Mil. Thou. \$B	(2) Foreign	(3) Worldwide						
a. Salaries	Mil. Thou. \$B s, wages, and fringe benefits	<u>il. Mil. Thou.</u>	<u>\$Bil.</u> <u>Mil.</u> <u>Thou.</u>						
			00 000 000						
b. Stock-b	ased compensation								
c. Leased	employees and temporary staffi	ng, including on-site consulta	ants, working on R&D						
d. Expens	ed equipment (not capitalized)								
e. Materia	ls and supplies								
	Questi	on continues on next page							

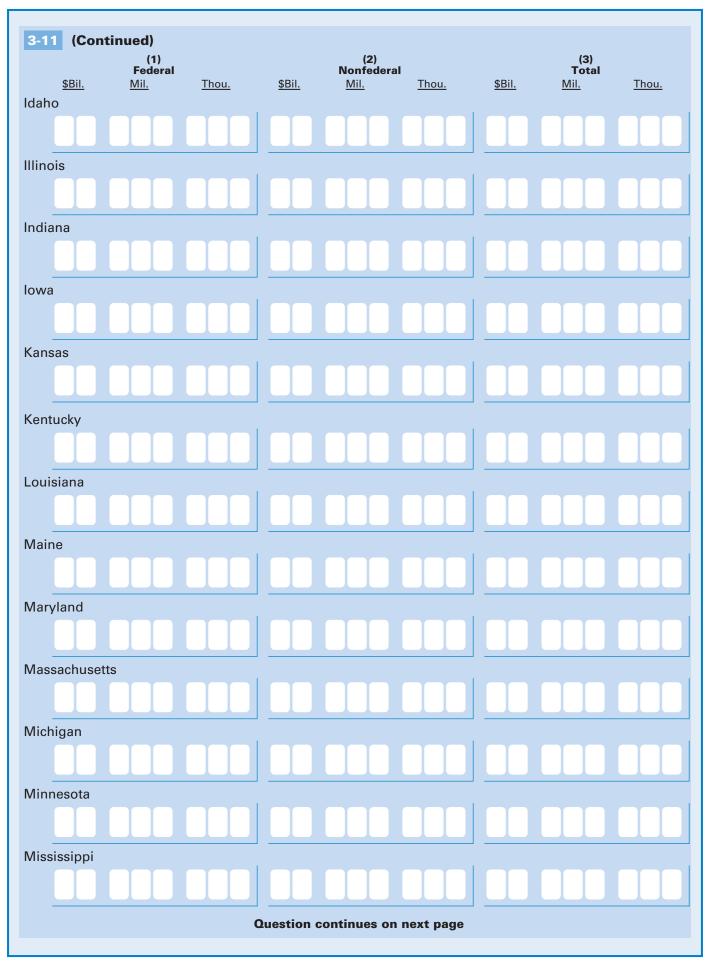
3-3	(Co	ontinued)			(0)			10)	
	4D .1	(1) Domestic	-	AD ''	(2) Foreign	-	AD :1	(3) Worldwide	-
f. L	<u>\$Bil.</u> eased	<u>Mil.</u> facilities and eq	Thou. uipment	<u>\$Bil.</u>	Mil.	<u>Thou.</u>	\$Bil.	Mil.	<u>Thou.</u>
g. D	epreci	ation and amor	tization on	property, p	lant, equipn	nent, and ir	ntangible a	ssets	
h R	ovaltie	es and licensing	fees (includ	ing payments	made to other	s for the use o	of natents an	d other forms of	intellectual
pı	operty	used in your compa	ny's R&D)	ing payments	made to other	3 for the dae (or paterits air	d other forms of	intellectual
i. C	ollabo	rative R&D payr	nents (inclu	de joint devel	opment agreen	nents)			
						اممه			
j. C	ontrac	t R&D (include pa	ayments to y	our company	y's foreign pa	rent for R&D)		
k. O	ther n	urchased servic	es						
0									
I. A	II othe	r costs (including	administrativ	e and overhea	d costs clearl	y associated	with your o	company's R&D)
m. T	otal								
111.	Otal								
	Total	equals Question	3-2, line a	Total equ	als Question	3-2, line b	Total e	quals Question	3-1, line j
3-4	Ad	d 3-3, lines i a	nd j for ea	ach colum	n, and ente	er the resu	ılt here.		
		s is <u>R&D perfe</u>			g., subcont				sts).
	¢D:I	(1) Domestic	There	¢D:I	(2) Foreign	There	¢D:I	(3) Worldwide	There
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
2.5		h4wa a4 O G G	. 2 2 !!	6-	-b!-		41	le la ave	
3-5		btract 3-4 fron is is <u>R&D perf</u> e							
		(1) Domestic			(2) Foreign			(3) Worldwide	
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.

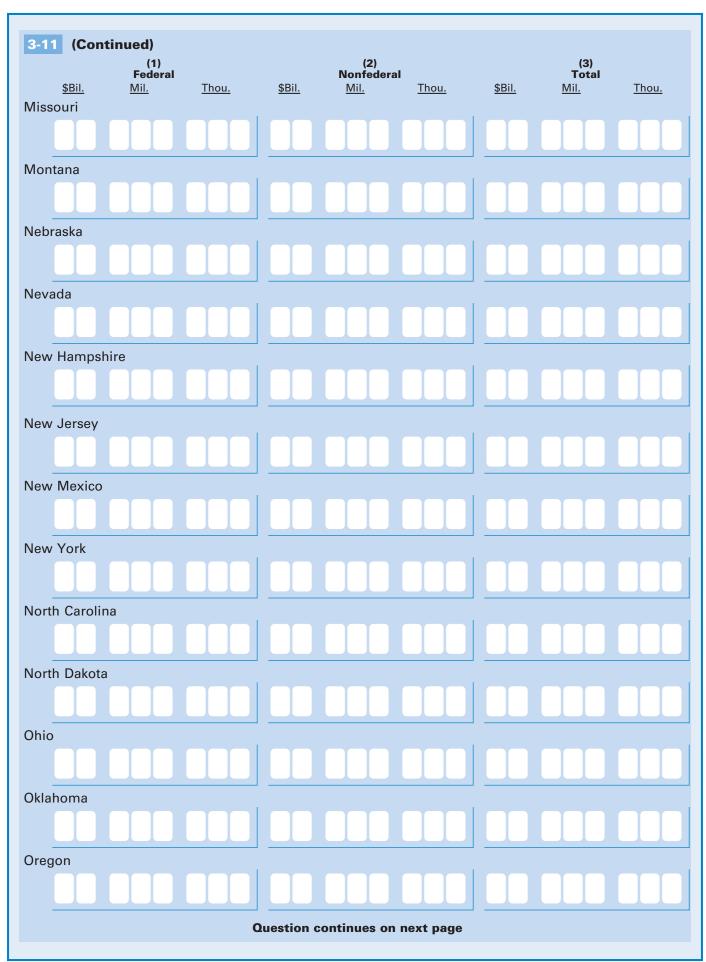
\$Bil.	Mil.	Thou.	nation/brdshelp.html#q3-6.	\$Bil.	Mil.	Thou.
			Switzerland			
			- CWILLONGING			
			Turkey			
\$Bil.	Mil.	Thou.	United Kingdom			
			Other			
			Latin America/			
			Other Western Hemisphere	\$Bil.	Mil.	Thou.
			Argentina			
			Drazil			
			Diazii			
			Chile			
			Mexico			
			Other Latin			
				\$Ril	Mil	Thou.
				фы.	IVIII.	Tilou.
			Australia			
			China			
			Hong Kong			
			India			
			Indonesia			
			Japan			
			Malaysia			
			New Zealand			
	\$Bil. O	\$Bil. Mil. \$Bil. Mil. \$CO OCCUPY OC	\$Bil. Mil. Thou. O	Switzerland Turkey United Kingdom Other Europe Latin America/ Other Western Hemisphere Argentina Chile Other Latin America/OWH Asia and Pacific Australia Hong Kong India	Switzerland Turkey	Switzerland

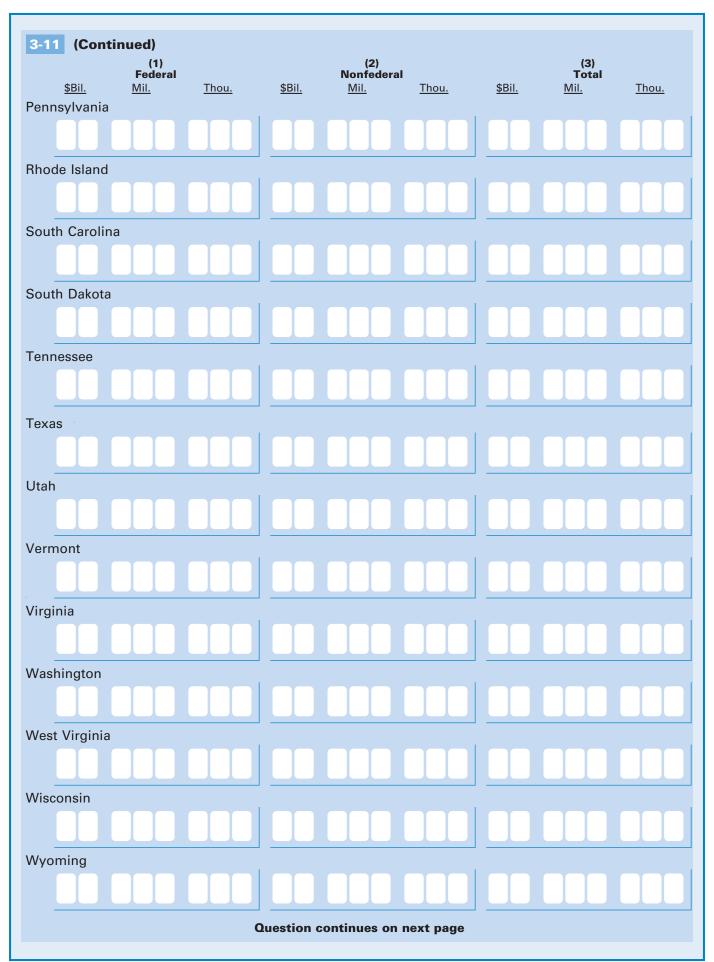
3-6 (Continue	ed)								
	\$Bil.	Mil.	Thou.	Africa	\$Bil.	Mil.	Thou.		
South Korea				South Africa					
Taiwan				Other Africa					
Thailand				Total (equals Question 3-5, column 2)					
Other Asia/ Pacific				001d11111 2/1					
Middle East	\$Bil.	Mil.	Thou.						
Israel									
Other Middle East									
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.									
Busin	ess code				\$Bil.	Mil.	Thou.		
a. 📗									
b. 0									
c. 0									
d.									
e									
f.									
g.									
g	equals Qu	estion 3-5,	column 1) .						

a sulfor the was a. Of b. You for the c. Of	nple: Company Sub Inc. performs custom software development occontractor on a contract with the U.S. Dept. of Defense. Even the process of this development in line the defense company, it reports the cost of this development in line the original source of funds. The companies located inside the United States	ugh Sub lı	nc. is workin	g directly
b. Yo fo c. Of d. U. e. U. f. Fo g. U. pr	our company's foreign parent (if you are owned by a reign parent)	\$Bil.		Thou.
b. Yo fo c. Of d. U. e. U. f. Fo g. U. pr	our company's foreign parent (if you are owned by a reign parent)			
fo. Or d. U. e. U. f. Fo. g. U. pr. h. U.	ther companies located <u>outside</u> the United States			
d. U. e. U. f. Fo g. Ur pr	S. federal government agencies or laboratories S. state and local government agencies or laboratories preign government agencies or laboratories niversities, colleges, and academic researchers (including incipal investigators) located inside the United States			
e. U. f. Fo g. U pr	S. state and local government agencies or laboratories preign government agencies or laboratories niversities, colleges, and academic researchers (including incipal investigators) located inside the United States			
f. Fo g. Ui pr h. Ui	oreign government agencies or laboratories			
g. Ui pr h. Ui	niversities, colleges, and academic researchers (including incipal investigators) located inside the United States			
pr h. U	incipal investigators) located <u>inside</u> the United States			
	niversities and colleges located <u>outside</u> the United States			
i. Al				
	I other organizations <u>inside</u> the United States			
j. Al	I other organizations <u>outside</u> the United States			
k. T o	otal (equals Question 3-5, column 1)			
	Question 3-8, lines a, b, and c, and enter the	\$Bil.	Mil.	Thou.
	It here. This is the <u>domestic R&D performed by</u> company that was paid for by other companies.			
and perfe	ract Question 3-8, line d, from Question 3-8, line k, enter the result here. This is the domestic R&D branch by your company that was paid for by dederal sources.	\$Bil.	Mil.	Thou.
<u> IIOIII</u>	ouciui ooui oog.			

3-11 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 3-10 (3) Total domestic R&D performed by your company that was paid for by others											
reported in Question 3-5, column 1											
\$Bil.	(1) Federal Mil.	Thou.	\$Bil.	(2) Nonfedera Mil.	al <u>Thou.</u>	\$Bil.	(3) Total <u>Mil.</u>	Thou.			
Alabama	<u> 19111.</u>	<u>mou.</u>	ψ <u>υп.</u>	<u>iviii.</u>	<u>mou.</u>	<u>ΨΒΠ.</u>	<u>iviii.</u>	<u>inou.</u>			
Alaska											
Arizona											
Arkansas											
California											
Colorado											
Connecticut											
Delaware											
District of Co	lumbia										
Florida											
Georgia											
Hawaii											
		Q	uestion co	ontinues on	next page						







3-11	(Continue	d) (1) ederal			(2) Nonfederal			(3) Total	
	\$Bil. Mi		nou.	<u>\$Bil.</u>	Mil.	Thou.	\$Bil.	Mil.	Thou.
Total									
	Total equals (Question 3-8	, line d	Total e	equals Quest	ion 3-10	Total equals	Question 3-	5, column 1
3-12	At what d					perform the	e largest do	llar amou	nt
	Address 1								
	Address 2								
	City						State	ZIP	
3-13	How much column 1, Question 3	was from				3-5,	\$Bil.	Mil.	Thou.
3-14						perform the ers in 2023	e second laı ?	rgest	
	Address 2								
	Audiess 2								
	City						State	ZIP	
3-15	How much column 1, Question 3	was from				3-5,	\$Bil.	Mil.	Thou.

R&D performed by others			
2.16 Of the demostic DSD newformed by others reported	\$Bil.	Mil.	Thou.
3-16 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?			
Projected R&D paid for by others in 2025			
3-17 What are your company's projected 2025 costs for R&D that will be paid for by others?	\$Bil.	Mil.	Thou.
NOTE: This amount is the 2025 projection for what is reported in Question 3-1, line j.			
3-18 How much of the projected costs in 2025 for R&D that will be paid for by others reported in Question 3-17			
will be performed by your company in the United States?	\$Bil.	Mil.	Thou.
NOTE: This amount is the 2025 projection for what is reported in Question 3-5, column 1.			
3-19 How much of the projected costs in 2025 for domestic			
R&D performed by your company reported in Question 3-18 will be paid for by the U.S. federal government?	\$Bil.	Mil.	Thou.
NOTE: This amount is the 2025 projection for what is			
reported in Question 3-8, line d.			
3-20 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			
Telephone Title Area code Number		Ext	ension

SECTION 3 WORKSHEET

Co	mplete if amount reported in Question 3-1, line j is less t	han \$1 N	lillion
1	Of the total R&D paid for by others reported in Question 3-1, line j, were incurred in the following locations?	what cost	:s
		\$Mil.	Thou.
	a. Domestic United States (50 states and D.C.)		
	b. All other countries (also, Puerto Rico)		
	c. Total		
2	How much of the amount reported in Question 1, line a, was for ea 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. Total (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	\$Mil.	Thou.
	was paid for by others in 2023.		

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	irce of fund	s.
	Example: Company Sub Inc. performs custom software development for a large a subcontractor on a contract with the U.S. Dept. of Defense. Even though Sub Ir for the defense company, it reports the cost of this development in line d because was the original source of funds.	nc. is working	directly
		\$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 inside 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. Total (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 categories		'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. Total (equals Question 3)		

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 2023. 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 by your company at the end of 2023, according to your bal			
	Include:Assets classified as discontinued operations	\$Bil.	Mil.	Thou.
	a. Property, plant, and equipment			
	b. Goodwill			
	c. Identifiable intangible assets			
	d. Total			
4-2	What were your company's <u>worldwide expenditures</u> for the following capitalized assets in 2023?	ıe		
	 Include: Estimated cost of new structures and equipment acquired as the lessee under lease arrangements entered into during 2023. Capitalized internal software development costs. Exclude: Assets acquired through mergers and acquisitions reported in Question 4-1. Investment in operating leases (expenditures for fixed assets leased to others). 	\$Bil.	Mil.	Thou.
	a. Property, plant, and equipment			
	b. Identifiable intangible assets			
	c. Total			

-			_						
4-3 How much of the expenditures for capitalized assets in Question 4-2 were for assets that were deployed in the following locations?									
_	(1) Domesti <u>Bil.</u> Mil. Derty, plant, and ϵ	Thou.	\$Bil.	(2) Foreign Mil.	Thou.	\$Bil.	(3) Worldwide Mil.	Thou.	
4. 110	Derty, plant, and t								
b. Iden	itifiable intangible	e assets							
c. Tota	al								
4-4	Of the amounts R&D operation		Questio	n 4-3, Colui	mn 1 (Dom	estic), ho	ow much w	as for	
	 Expenditures for new and improvement of the expenditures for new and improvement of the expenditures for paid for by custom Companies should R&D operations a basis. 	oved products for business operved processes or business oper tomers, business	or sale by y erations that and softwaterations that as partners, al expenditi	rour company t research and re for use by t conduct R& , or other thin ures that beno	d develop your D that is d parties.				
	a. Property, plar	nt, and equipn	nent			\$Bil.	Mil.	Thou.	
	b. Identifiable in	tangible asset	ts						
	c. Total								

4-5	How much of the amount reported in Question 4-4, line c,	was for	the follov	ving?
		\$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. Total (equals Question 4-4, line c)			
4-6	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			
	Telephone Title Area code Number		Ex	ctension

Management and Strategy of R&D

Who should answer this section?

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 5-11 on page 38.

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 2023, 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 2023, Company A reports this R&D in this question.



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.

How much of the amount reported in Question 5-2 was for the following categories?

э.	Research planned, systematic pursuit of new	
	knowledge or understanding	

	ΨL)II.		IVIII	•		11100	
-								_

- c. **Total** (equals Question 5-2).....
 - . <u>UU UUU UUU</u>
- If you reported any research in Question 5-3, 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.

Technology focus of domestic R&D paid for and perform	med by yo	ur com	pany
NOTE: You may report the same R&D in multiple areas for Quest	tions 5-5 to	5-8.	
5-5 What percentage of the amount reported in Question 5-2 software products or software embedded in other project		ets?	%
What percentage of the amount reported in Question 5-2 biotechnology? For list-based definition see Question by Question Guidan https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-6			
Biotechnology The application of science and technology to living of as well as parts, products and models thereof, to alter living or non-living for the production of knowledge, goods and services.			%
What percentage of the amount reported in Question 5-2 nanotechnology? For list-based definition see Question by Question Guid https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-7			
Nanotechnology The application of science and technology to organic and inorganic materials, as well as parts, products, and models at the nanometer-scale (but not exclusively below 1000 nanometers).	nisms, s thereof,		%
What percentage of the amount reported in Question 5-2 varificial intelligence (AI)? For a detailed definition see Question by Question at https://www.census.gov/programs-surveys/brds/information/brdshelp	uestion		
Artificial Intelligence (AI) A branch of computer science and engin to making machines intelligent. Intelligence is that quality that enables perceive, analyze, determine response, and act appropriately in its env	an entity to	d	%
Characteristics of foreign R&D paid for and performe	d by you	compa	any
5-9 Copy the amount from Question 2-10, column 2. This is the <u>foreign R&D paid for and performed by your company</u> .	\$Bil.	Mil.	Thou.
5-10 How much of the foreign R&D paid for and performed by your company reported in Question 5-9 was for the following categories?	4011		
a. Research planned, systematic pursuit of new knowledge or understanding	\$Bil.	Mil.	Thou.
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 5-9)			

Domestic R&D performed by your company that was	paid fo	r by oth	ers		
If the amount reported in Question 3-1, line j was less than \$1 Million, skip to Section 6 on page 41.					
5-11 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.		
5-12 How much of the amount reported in Question 5-11 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. Total (equals Question 5-11)					
5-13 If you reported any research in Question 5-12, line a, how much of that research was for the following categories?	\$Bil.	Mil.	Thou.		
 a. <u>Applied research</u> 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 5-12, line a)					

Tech that	nology focus of domestic R&D performed by you was paid for by others	ır compa	ny	
NOTE:	You may report the same R&D in multiple areas for Questi	ions 5-14 t	to 5-17.	
5-14	What percentage of the amount reported in Question 5-11 software products or software embedded in other projects products?			%
5-15	What percentage of the amount reported in Question 5-11 biotechnology? For list-based definition see Question by Question Guidance https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-15			
	Biotechnology The application of science and technology to living or as well as parts, products and models thereof, to alter living or non-living for the production of knowledge, goods and services.			%
5-16	What percentage of the amount reported in Question 5-11 nanotechnology? For list-based definition see Question by Question Guida https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-16			
	Nanotechnology The application of science and technology to organ organic and inorganic materials, as well as parts, products, and models at the nanometer-scale (but not exclusively below 1000 nanometers).			%
5-17	What percentage of the amount reported in Question 5-11 artificial intelligence (AI)? For a detailed definition see Question by Qu Guidance at https://www.census.gov/programs-surveys/brds/information/brdshelp	estion		
	Artificial Intelligence (AI) A branch of computer science and engine to making machines intelligent. Intelligence is that quality that enables perceive, analyze, determine response, and act appropriately in its environment.	an entity to	ed	%
	estic R&D performed by your company that was federal government	paid for	by the	
5-18	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.
5-19	How much of the amount reported in Question 5-18 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. Total (equals Question 5-18)			

5-20 If you reported any research in Question 5-19, line a, how much was for the following categories?	ΦD'I	DA'1	T 1
a. Applied research activities aimed at solving a specific problem or meeting a specific commercial objective	\$Bil.	Mil.	Thou.
b. Basic research activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses			
c. Total (equals Question 5-19, line a)			
5-21 What percentage of the amount reported in Question 5-18 for software products or software embedded in other projor products?			%
Characteristics of foreign R&D performed by your cofor by others	mpany	that was	s paid
5-22 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.
How much of the amount reported in Question 5-22 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. Total (equals Question 5-22)			
5-24 Who was primarily responsible for completing this section	1?		
☐ Same person mentioned in Question 1-7			
☐ Another person → Please provide the following information	ation:		
Name			
Telephone Title Area code Number		Ex	tension

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.

men your company owned	more than so percent.		
How many employ many were <u>all other</u>	ees reported in Question er employees?	1-9 were <u>R&D employe</u>	es and how
Include: Full-and part-	time employees		
Exclude: Leased or te	mporary employees and consult	ants	
	de: All employees who work on nanagers, technicians, clerical st		
	de: Employees who provide onl ards, and cafeteria workers.	y indirect support to R&D, s	uch as corporate
	(1) Domestic operations	(2) Foreign operations	(3) Total employees
a. R&D employees	<u>00000</u>	000000	
b. All other employe	ees	000000	
c. Total employee	s		
		Total line equals Question	1-9
How many of the each state (includi	employees reported in Que	estion 6-1, column 1, w	ere employed in
(1)	(2)	(1)	(2)
R&D employees Alabama	Total employees	R&D employees California	Total employees
00000		000000	
Alaska		Colorado	
Arizona		Connecticut	
Arkansas		Delaware	

(Continued)	(2)	(1)	(2)
R&D employees	Total employees	R&D employees	Total employees
District of Columbia	ı	Michigan	
		000000	
Florida		Minnesota	
Georgia		Mississippi	
Hawaii		Missouri	
Idaho		Montana	
Illinois		Nebraska	
Indiana		Nevada	
lowa		New Hampshire	
Kansas		New Jersey	
Kentucky		New Mexico	
Louisiana		New York	
Maine		North Carolina	
Maryland		North Dakota	
Massachusetts		Ohio	
	Question continue		

R&D employees Oklahoma	(2) Total employees	(1) R&D employees Utah	(2) Total employee
Oregon		Vermont	
Pennsylvania		Virginia	
Rhode Island		Washington	
South Carolina		West Virginia	
South Dakota		Wisconsin	
Tennessee		Wyoming	
Texas		Total	
How many of the em	ployees reported in Qu	uestion 6-1, column 2, we	ere employed in
each location (includ	ling Puerto Rico)?		(2)
each location (included) (1) R&D employees	ling Puerto Rico)?	(1) R&D employees	(2)
each location (includ	ling Puerto Rico)?		(2)
(1) R&D employees Canada	ling Puerto Rico)?	(1) R&D employees	
each location (included) (1) R&D employees	ling Puerto Rico)?	(1) R&D employees Czech Rep	(2)
each location (include (1)) R&D employees Canada Puerto Rico	ling Puerto Rico)?	(1) R&D employees Czech Rep	(2)
(1) R&D employees Canada	ling Puerto Rico)?	(1) R&D employees Czech Rep Denmark	(2)
each location (include (1)) R&D employees Canada Puerto Rico Europe	ling Puerto Rico)?	R&D employees Czech Rep Denmark Finland	(2)
each location (include (1)) R&D employees Canada Puerto Rico Europe	ling Puerto Rico)?	(1) R&D employees Czech Rep Denmark	(2)

	(1) R&D employees	(2) Total employees	(1) R&D employees	(2) Total employe
Ge	ermany		United Kingdom	
Hu	ingary		Other Europe	
Ire	eland		Latin America/Other W	estern Hemisphe
			Argentina	
lta	ly			
			Brazil	
Lu	xembourg			
			Chile	
Ne	etherlands			
			Mexico	
N _C	orway		Wexico	
INC				
_			Other Latin America/O	WH
Ро	oland			
			Asia and Pacific	
Ru	ıssia		Australia	
Sp	pain		China	
Sv	veden		Hong Kong	
Sv	vitzerland		India	
Tu	ırkey		Indonesia	

(Continued)	(2)	(1)	_ (2)
R&D employees Japan	Total employees	R&D employees	Total employees
		Middle East	
		Israel	
Malaysia			
		Other Middle East	
New Zealand			
		Africa	
Singapore		South Africa	
South Korea		Other Africa	
Taiwan		Total	
Thailand			
Other Asia/Pacific			
Other Asia/r define			
D employees			
How many of the R8	kD employees reported ir	n Question 6-1, line a,	were <u>female</u>
employees and male	employees? (1) Domestic Operations	(2)	(3) Total R&D employee
	Domestic Operations	Foreign Operations	Total R&D employees
a. Female R&D emplo	yees		
b. Male R&D employe	es		
. T-4-1 D0 D			
c. Total R&D employ		al line equals Question 6.1	lino a
	100	al line equals Question 6-1,	inic a

			Question 6-1, line a,	worked in the
	a. Researchers (including R&D scientists, engineers, and their	(1) Domestic Operations	(2) Foreign Operations	(3) Total R&D employees
	b. R&D technicians and equivalent staff			
	c. R&D support staff (clerical and other)	000000	000000	000000
	d. Total R&D employee		line equals Question 6-1,	line a
		TOtal	illie equais Question 6-1,	iiile a
6-6	How many of the resea level of education?	rchers reported in Ques	etion 6-5, line a, had	the following
		Domestic Operations		Total
	PhD (excluding MD, JD, and EdD)			
Don 5-7	was the number of full employees, other full-ti	mployees reported in Q time equivalents (FTEs) me employees not work	for R&D activity for	full-time R&D
	employees?			
				- Number
	a. FTEs for full-time R&D	employees		Number
		employees ull-time employees who w	ork only on R&D	Number
	Count the number of f	• •	ŕ	Number
	Count the number of for Example: 50 full-time R&D employ b. FTEs for other full-time Use the share of the ti	ull-time employees who w	0 FTEs solely on R&D calculate the	Number
	Example: 50 full-time R&D employ b. FTEs for other full-time Use the share of the ti number of FTEs Example:	e employees not working some they work on R&D to come the R&D to come they work on R&D to come they work on R&D to come t	o FTEs solely on R&D calculate the	Number
	Count the number of for Example: 50 full-time R&D employ b. FTEs for other full-time Use the share of the ti number of FTEs Example: 60 full-time employees a c. FTEs for part-time employees a	vees worked only on R&D = 5 e employees not working s me they work on R&D to o veraged one-fourth of their t	o FTEs solely on R&D calculate the ime on R&D = 15 FTEs urs) that they work	Number
	Count the number of for Example: 50 full-time R&D employ b. FTEs for other full-time Use the share of the ti number of FTEs Example: 60 full-time employees at c. FTEs for part-time employees at Use the share of a full- on R&D to calculate th	rees worked only on R&D = 5 e employees not working some they work on R&D to converaged one-fourth of their to colores working on R&D etime week (such as 40 hours)	o FTEs solely on R&D calculate the ime on R&D = 15 FTEs urs) that they work	
	Count the number of for Example: 50 full-time R&D employ b. FTEs for other full-time Use the share of the tinumber of FTEs Example: 60 full-time employees at the share of a full-on R&D to calculate the Example: 20 part-time employees	e employees who we employees who we employees not working some they work on R&D to converaged one-fourth of their to bloyees working on R&D to the effection of	o FTEs solely on R&D calculate the ime on R&D = 15 FTEs urs) that they work n R&D activities = 10 FTEs	

6-8	th en	f the domestic research e number of full-time e nployees, other full-tim nployees?	quivalents (FTEs) for	R&D activity for fu	II-time R&D , and part-time
	а	FTEs for full-time researc	hers		Number
	u.	Count the number of full-		vork only on R&D	
		Example: 50 full-time R&D scientists	worked only on R&D = 50) FTEs	
	b.	FTEs for other full-time re Use the share of the time number of FTEs	they work on R&D to	calculate the	00000
		Example: 60 full-time managers averages	aged one-fourth of their t	ime on R&D = 15 FTEs	
	C.	FTEs for part-time research Use the share of a full-tin on R&D to calculate the F	ne week (such as 40 ho		. 000000
		Example: 20 part-time employees ave	eraged 20 hours a week c	n R&D activities = 10 FT	Es
	d.	Total FTEs			. 000000
			Total FTEs sho	uld not exceed Questi	on 6-5, line a, column 1.
6-9	W	ow many of the domest ere non-U.S. citizens en a H-1B or L-1?			nporary visa, such
	R	esearchers employed und	er a temporary visa		Domestic Operations
6-10	le	addition to the R&D en ased employees and ten the occupations listed	nporary staff, includ		
	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		00000	
	c.	R&D support staff (clerical and other)	000000	000000	000000
	d.	Total leased and temporary employees working on R&D			00000

6-11	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 7

Intellectual Property and Technology Transfer

Who should answer this section?

Persons with an understanding of your company's general business strategy and knowledge of its patenting, licensing, and other activities related to intellectual property should complete this section.

What does this section cover?

This section requests information about your company's worldwide intellectual property and technology transfer activities such as: patents, patent licensing, protection of intellectual property, and transfer of intellectual property.

Are responses to this survey confidential?

Total patents and utility patents

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	How many total patents did your company <u>apply</u> for in 2023 from the U.S. Patent and Trademark Office (USPTO)?	Number
7-2	Of the patent applications reported in Question 7-1, what was the number of <u>nonprovisional utility patent</u> applications?	Number
7-3	What percentage of the <u>nonprovisional utility patent</u> applications reported in Question 7-2 has your company applied for or plans to apply for in foreign jurisdictions?	%
7-4	What percentage of the <u>nonprovisional utility patent</u> applications reported in Question 7-2 was for inventions that originated within your company's organized R&D activities?	%
7-5	What percentage of your company's inventions <u>considered</u> for patenting in 2023 resulted in nonprovisional utility patent applications?	%
7-6	How many <u>utility patents</u> were <u>issued</u> to your company in 2023 by the USPTO?	Number

Utility patent sales and licensing to others			
	\$Bil.	Mil.	Thou.
7-7 How much revenue did your company receive in 2023 from the sale of utility patents?			
7-8 How much revenue did your company receive in 2023 from utility patent licensing?	\$Bil.	Mil.	Thou.
7-9 Was any of the revenue reported in Questions 7-7 or 7-8 received from companies or organizations located outside the United States?		☐ Yes	□ No
Utility patent purchases and licensing from others			
7-10 How much did your company pay others in 2023 to purchase utility patents?	\$Bil.	Mil.	Thou.
7-11 How much did your company pay others in 2023 to license utility patents?	\$Bil.	Mil.	Thou.
7-12 Were any of the payments reported in Questions 7-10 or 7-11 made to companies or organizations located outside the United States?		☐ Yes	□ No
7-13 Did your company perform the following activities in 202	3?		
a. Transferred intellectual property (IP) to others not owned by company through participation in technical assistance or "know how" agreements		☐ Yes	□ No
 Received IP from others not owned by your company through participation in technical assistance or "know how" agreeme 		□ Yes	□ No
c. Transferred IP to a spin-off or spin-out of your company		Yes	□ No
d. Received IP from a parent company as part of a spin-off or s	pin-out	Yes	□ No
e. Acquired more than 50% ownership in another company for primary purpose of acquiring their IP		□ Yes	□ No
f. Acquired any financial interest in another company in order gain access to their IP		□ Yes	□ No
g. Participated in cross-licensing agreements — the agreement which two or more parties grant a license to each other for use of the subject matter claimed in one or more of the paten owned by each party	the ts	□ Yes	□ No
h. Allowed free use of patents or other IP owned by your comp (for example, open source software)	any	□ Yes	□ No
i. Made use of open source patents or other freely available IP owned by your company	not	Yes	□ No

Intellectual property protection			
7-14 During 2023, how important to your company were the following types of intellectual property protection?	Very important	Somewhat important	Not important
a. Utility patents (patents for invention)	. 🗆		
b. Design patents (patents for appearance)	. 🗆		
c. Trademarks	. 🗆		
d. Copyrights	. 🗆		
e. Trade secrets	. 🗆		
f. Mask works (copyright protection for semiconductor products) 🗆		
7-15 Who was primarily responsible for completing this section	?		
Same person mentioned in Question 1-7			
Another person → Please provide the following information	ition:		
Name			
Telephone		F .	
Title Area code Number		Exten	ision

SECTION 8

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.

8-1	Did your company file for the tax creresearch activities (IRS Form 6765) i		☐ Yes ☐ No
8-2	Did your company file for any U.S. s research activities in 2023?		☐ Yes ☐ No
8-3	Was your company charged for R&D subsidiaries in 2023 as part of any co		☐ Yes ☐ No
8-4	Did your company charge foreign su your company performed in 2023 as arrangement?	part of any cost sharing	
8-5	Who was primarily responsible for c	ompleting this section?	
	☐ Same person mentioned in Question	on 1-7	
	☐ Another person → Please provide	the following information:	
	Name		
		Telephone	
	Title	Area code Number	Extension

	ness codes	Consu	ımer Goods
(used	in Sections 1, 2, and 3)	33333	Digital cameras manufacturing
Aeros	pace and Defense	33430	Audio and video equipment manufacturing
33642	Aircraft engine and engine parts manufacturing	31210	
33641	Aircraft manufacturing	33200 31100	Fabricated metal products manufacturing Food manufacturing
33644	Guided missiles, space vehicles, and parts	33700	Furniture and related products manufacturing
	manufacturing	32300	Printing and related support activities
33692		32591	Soap, cleaning compound, and toilet
33452	components manufacturing Search, detection, navigation, guidance,		preparations manufacturing
33432	aeronautical, and nautical system and	31990	Textile, apparel, and leather products
	instruments manufacturing	21220	manufacturing
33660	Ship and boat building	31220	Tobacco manufacturing Miscellaneous manufacturing not listed
33643	Other aircraft parts and auxiliary equipment	33330	elsewhere (games, office supplies,
	manufacturing		slot machines, etc.)
Auton	nobiles, Motorcycles, and Components		• •
33620	Motor vehicle body and trailer manufacturing	Energ	y and Mining
33630	Motor vehicle parts manufacturing	33360	Engine, turbine, and power transmission
33610	Motor vehicles manufacturing	04000	equipment manufacturing
33691	Motorcycle, bicycle, and parts manufacturing	21200 33319	Mining Mining, oil, and gas field machinery and
33651 33660	Railroad rolling stock manufacturing Ship and boat building	33313	equipment manufacturing
33699	All other transportation equipment	21100	Oil and gas extraction
	manufacturing	32401	Petroleum refineries
Canita	al Equipment	21300	Support activities for mining,
_	Agricultural machinery and equipment		including oil and gas
33311	manufacturing	Financ	ce, Insurance, and Real Estate
33332		52200	Finance: banking and credit intermediation
	control, and airflow control machinery	52400	Insurance carriers and related activities
2222	manufacturing	53100	Real estate
33312 33500	Construction machinery manufacturing Electrical equipment, appliances, and	52310	Securities, commodity contracts, and other financial investments and related activities
,,,,,,,	components manufacturing		(including funds and trusts)
33360			(mordaling runds and trasts)
	equipment manufacturing	Health	ncare
33322		32543	Biotechnology-based pharmaceutical and
33390	semiconductor machinery		biological products (except diagnostics)
3330	Metalworking and other general purpose machinery manufacturing	33451	Electromedical, electrotherapeutic, and
33319	Mining, oil, and gas field machinery and		irradiation apparatus manufacturing
	equipment manufacturing	62200 32542	Hospitals and nursing care facilities
33331	Photographic and photocopying equipment	62150	In vitro diagnostic substances manufacturing Medical and diagnostic laboratories
	manufacturing	33910	Medical equipment and supplies manufacturing
Chem	icals and Materials	62110	Offices of physicians
32402	Asphalt paving, roofing, and saturated	32541	Pharmaceutical, medicinal, and botanical
	materials manufacturing		products manufacturing
32510	Basic chemicals manufacturing	54173	
32790	Cement, concrete, lime, gypsum, and other	54175	in biotechnology (except nanotechnology) Research and development services in
2242	nonmetallic mineral product manufacturing	341/3	nanotechnology
32710	Clay and glass products manufacturing	54174	
21200 32592	Mining Paint, adhesive, and other chemical		in physical, engineering, and life sciences
2002	manufacturing		(except nanotechnology and biotechnology)
32200	Paper manufacturing	62199	Other ambulatory health care services
32530	Pesticide, fertilizer, and other agricultural		(ambulance, dental, home health care)
	chemical manufacturing		
30000	Plastics and rubber products manufacturing	1	

32591

32600 Plastics and rubber products manufacturing

Soap, cleaning compound, and toilet

manufacturing, including motor oil, hydraulic fluid, and charcoal

synthetic fibers and filaments manufacturing

33100 Primary metal manufacturing 32520 Resin, synthetic rubber, and artificial

preparations manufacturing
32100 Wood products manufacturing
32403 Other petroleum and coal products

Inform	nation 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
00412	manufacturing, including magnetic and optical media
F4000	
51800 33500	Data processing, hosting, and related services Electrical equipment, appliances, and
1	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
33421	including routers, modems, and gateways
42500	Wholesale electronic markets and
42500	
00400	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
D	rained Cainetiffs and Tasknical Camina
Protes	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,
	bookkeeping and payroll services
54160	Management, scientific, and
01100	technical consulting services
54190	Professional, scientific, and technical services
34130	(not listed elsewhere)
54173	Research and development services in
54173	
F 4 1 7 F	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)
51740	
22100	Utilities

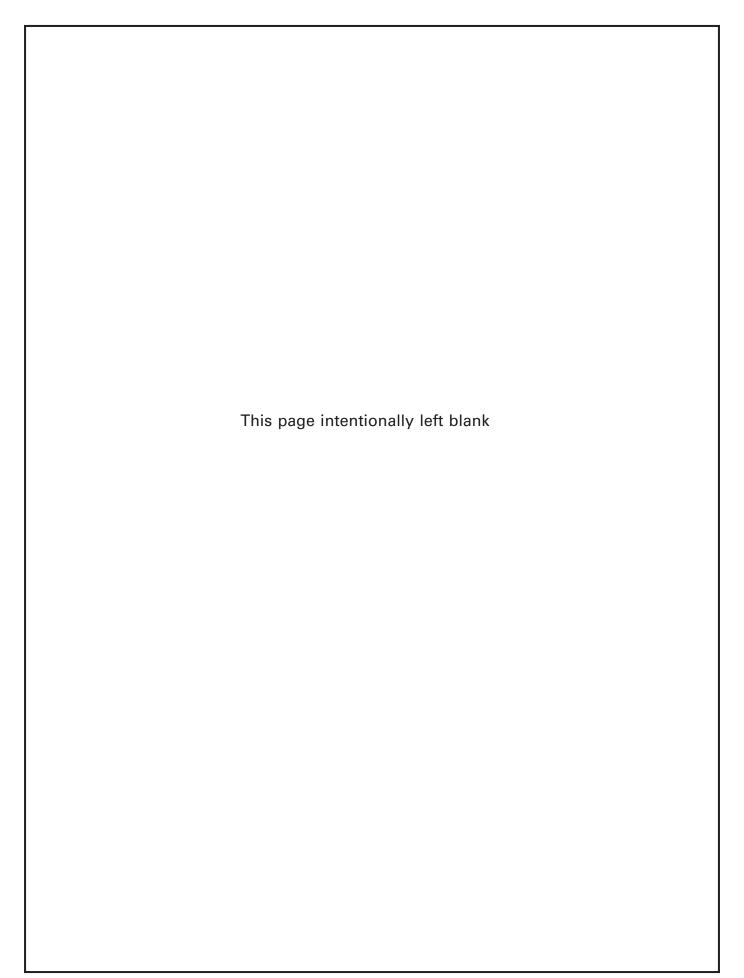
56200 Waste management and remediation services 51710 Wired telecommunications carriers

51790 Other telecommunications (not listed elsewhere)

51720 Wireless telecommunications carriers

(except satellite)

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
Approximately now long did it take to complete this survey?		:
Remarks (Please use this space below for any explanations that may be essential in un reported data.)	derstandin	g your
Thank You – Your Response is Important		
Accurate and timely statistical information could not be produced without your cont and goodwill. Thank you.	nued coo	peration
We estimate this survey will take between 15 minutes and 18 hours, with an average of minutes to complete, including the time for reviewing instructions, searching existing da 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 collinformation, including suggestions for reducing this burden, to erd.survey.comments@ce	ta sources of inform lection of	, ation.

to use "ERD Survey Comments 0607-0912" as the subject.