Attachment A 11028016



JEFFERSONVILLE, IN

47132-0001

U.S. DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. CENSUS BUREAU

FORM

BRD-1 (11-01-2018) Draft 5

## 2018 BUSINESS RESEARCH AND DEVELOPMENT SURVEY

DUE DATE:
Need help or have questions about filling out the form?
<b>Visit</b> 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 1-800-772-7851, between 8:00 a.m. and 5:00 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

# 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) authorize this collection. Title 13, United States Code, Sections 224 and 225 require your response. The U.S. Census Bureau is required by Section 9 of the same law 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 3.3 hours to complete. More information about this estimate and an 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 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 company expenditures for property, plant, and equipment including capitalized software.

## 

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

### Section 6: Human Resources ......p.40

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

### Section 7: Intellectual Property and Technology Transfer . . . . . . . . . . . . . . . . p.47

Topics include patenting, licensing, and other technology transfer activities.

### Changes from the 2017 survey

Questions related to R&D on artificial intelligence were added to Section 5 (Management and Strategy of R&D). Questions asking for location of employees and R&D employees were added to Section 6 (Human Resources). A question asking for count of temporary and leased employees working on R&D was added to Section 6 (Human Resources). For a list of specific changes, go to <a href="https://www.census.gov/programs-surveys/brds/about/faq.html">https://www.census.gov/programs-surveys/brds/about/faq.html</a>.

### **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 <a href="https://www.census.gov/programs-surveys/brds/information.html">https://www.census.gov/programs-surveys/brds/information.html</a>.



### 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 associated with 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 you are 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 2018, if possible, or for your company's fiscal year ending between April 2018 and March 2019.

### Estimates are acceptable

Please report all items to the best of your ability.

### To speak with a survey specialist, call 1-800-772-7851.

Survey specialists are available Monday through Friday, from 8:00 a.m. to 5:00 p.m. Eastern time, to help with any questions you may have.



	SECTION 1
	Company Information
1-1	Has your company ceased operations?
	Yes → Please provide the following information:
	(MM) (DD) (YYYY)
	Date your company ceased operations
	REPORTING INSTRUCTIONS:  If your company ceased operations between April 1, 2018 and December 31, 2018, report only for the period January 1, 2018 to the date your company ceased operations. If your company ceased operations before April 1, 2018, 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 other than a holding company own more than 50 percent of the voting interest in your company during 2018?
	Yes → Please provide the following information:
	Name of parent company
	EIN of owner (9 digits)  Date parent company purchased your company  (MM) (DD) (YYYY)
	REPORTING INSTRUCTIONS FOR U.SOWNED COMPANIES:  If your company was purchased between April 1, 2018 and December 31, 2018, report only for the period January 1, 2018 to the date of purchase. If your company was purchased before April 1, 2018, complete Question 1-7 and return this form to the Census Bureau – you are not required to complete the rest of this survey unless your owner instructs you to complete this survey.
	□ No
1-3	Will the information in this survey be reported for the 2018 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 2018?
		Yes
		Name of parent company
		<b>REPORTING INSTRUCTIONS FOR FOREIGN-OWNED COMPANIES:</b> If you are 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 you pay your 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		our company own more than 50 percent of any company operations or idiaries outside the 50 United States and D.C. during 2018?
		Yes <b>→ Include data for these operations/subsidiaries in your survey responses</b> No
1-6	Did y	our company have discontinued operations in 2018?
		Yes <b>→ Include data for these operations in your survey responses</b>
		NO .
1-7	Who	is the survey coordinator?
	infor surve to re	survey coordinator is the person at your company responsible for gathering all requested mation, ensuring instructions are followed, and submitting the completed survey. The ey coordinator may not be able to personally complete the entire survey and may need quest information from other knowledgeable resources concerning your company's R&D, unting, human resources, and legal matters.
	Name	
		Telephone
	Title	Area code Number Extension
	E-mai	address



	your company for the	mber of worldwide empl pay period that included	oyees working at I March 12, 2018?	
	<ul><li>Include:</li><li>Full- and part-time empl</li></ul>			Number
	Exclude:	loyees		
	Leased or temporary en	nployees and consultants		
-9		loyees reported in Quest stic operations and <u>forei</u>		ees of
		<b>nployees</b> include all employee orm 941, Employer's Quarterly		orted on the
		(1) Domestic operations	(2) Foreign operations	(3) Total employees
	Employees			
				Total equals Question 1
11	in 2018.	ness codes in which you be used to describe both b		
		codes used by other gove ate business codes are avai		ports. Tools to help
	Business code (see pages 49-50)		Description	

1 10	Mile of successful and a successful		/			
1-12	What was the amount during 2018?	or your compa	iny s <u>worlawide</u>	\$Bil.	Mil.	Thou.
	<ul><li>Include:</li><li>Sales and operating re</li></ul>	vanues from disco	ntinued operations	φ511.		
	• Sales and operating re	venues nom disco	itilided operations			
PER C						
1-13	How much of the amoretic operated the second		n Question 1-12	was attributa	ble to or or	iginated
	<ul><li>Include:</li><li>Sales and operating reincluding foreign subsite</li></ul>		customers,			
	<b>Example:</b> U.S. Manufactucustomers around the wo			\$Bil.	Mil.	Thou.
	operations are located ins of its sales in this questio	ide the United Sta				
1-14	How much of the 201 code listed or amende (1) Worldwide sales a (2) Sales and operati	ed in Question and operating r ng revenues fro Worldwid operating	1-11: evenues reporte om domestic ope 1) e sales and g revenues	ed in Question erations repor Sales and from do	1-12 ted in Ques (2) d operating re omestic opera	stion 1-13
	Business code	\$Bil. N	1il. Thou.	\$Bil.	Mil.	Thou.
	a					
	b					
	с.					
	d.					
	е.					
	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	Question 1-12	Total e	quals Questio	n 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.

,,,,,						
What was the worldwide R&D expense (both direct and in 2018?	d indire	ct) fo	r <b>yo</b> u	ır com	pany	
<b>If your company is publicly traded,</b> this amount is equivalent to that disclosed on SEC Form 10-K as defined in FASB ASC Topic 730, Research and Development.	\$B	il.	Mil.		Thou	ı.
If your company is foreign-owned, refer to the instructions on page 4. Additional guidance, such as for privately owned companies, is available online at https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q2-1						
<b>NOTE:</b> Report your company's R&D expense even if the amount is not considered material for your company's financial statements.	6					
Does the amount reported in Question 2-1 include any	of the	follow	/ing	costs?		
a. Collaborative R&D that was reimbursed by business particular such as through cost-sharing agreements				Yes		No
b. R&D paid for by grants (government or private foundation	ns)			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 product support provided by R&D employees)				Yes		No
e. Bid and proposal costs				Yes		No
f. Expense your company claimed resulting from the acquis another company with unfinished R&D projects (in-process)				Yes		No
g. Phase IV clinical trials				Yes		No
If you answered "Yes" to any of the costs in Question	\$B	il.	Mil.		Thou	ı
2-2, what was the amount of these costs that was included in your response to Question 2-1?						
Subtract Question 2-3 from Question 2-1 and enter the	<b>e</b> \$B	il.	Mil.		Thou	۱.
result here. This is the <u>total R&amp;D paid for by your</u> <u>company</u> in 2018.						
Is the amount entered in Question 2-4:						
\$0 → Stop Skip to Section 3 on page 19.		4	0	حاله ام		
Less than \$1 Million $\rightarrow \text{ stop}$ Skip to Section 2 Workshopen to the section 3 on page 19		page 1	o an	a tner		

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

Indir	ect R&D charges	S			
2-5	was for R&D costs through indirect ch	mount reported in Question 2-4 your company plans to recoup narges on U.S. federal government independent R&D)?	\$Bil.	Mil.	Thou.
R&D	paid for by you	r company			
2-6		orted in Question 2-4, what were the onded in Question 1-11?	osts for e	ach busi	ness
		that are applicable to more than one busing operation to operating revenues is acceptable under appropriate.			able
	Business code	I	\$Bil.	Mil.	Thou.
	a				
	b				
	c				
	d.				
	e				
	f				
	g				
	h				
		estion 2-4)			
2-7	company in the fol		s incurred \$Bil.	by your  Mil.	Thou.
	R&D performed b	States (50 states and D.C.) [Include y domestic operations that is paid sidiaries]			
	performed by fore	s (also, Puerto Rico) [Include R&D eign subsidiaries that is paid for ations]			000
	c. <b>Total</b> (equals Que	estion 2-4)			



2			the (1) dome in 2018 was						
	you	(1) Domes		o ioi cacii	(2) Foreign	wing type	23 01 0031	(3) Worldwide	
	<u>\$Bil.</u>	Mil.	Thou.	<u>\$Bil.</u>	Mil.	Thou.	\$Bil.	Mil.	Thou.
a.	Salaries,	wages, and	d fringe benefi	ts					
b.	Stock-ba	sed compe	nsation						
c.	Leased e	mployees a	ind temporary	staffing, in	cluding on-s	site consulta	ants, workii	ng on R&D	
d.	Expense	d equipmen	it (not capitaliz	zed)					
e.	Materials	and suppl	ies						
f.	Leased fa	acilities and	equipment						
g.	Deprecia	tion and an	nortization on	R&D proper	rty, plant, ed	quipment, a	nd intangik	ole assets	
h.	Royalties property us	and licens sed in your co	ing fees (includ mpany's R&D)	ing payments	made to other		of patents and		intellectual
i.	Collabora	ative R&D p	payments (inclu	de joint develo	opment agreen	nents)			
j.	Contract	R&D (include	e payments to yo	ur company's	foreign parent	for R&D)			
k.	Other pu	rchased ser	vices						
I.	All other	costs (includ	ding administrativ	e and overhea	d costs <b>clearl</b>	y associated	with your co	ompany's R&I	<b>D</b> )
			C	Question co	ntinues on r	ext page			

2-8 (Continue	) )							
2-0 (Continue	(1)			(2)			(2)	
D	omestic		F	(2) oreign			(3) Worldwide	
<u>\$Bil.</u> <u>1</u>	<u>/lil.</u> <u>T</u>	hou.	<u> Bil. M</u>	<u>il.</u>	Thou.	\$Bil.	Mil.	Thou.
m. <b>Total</b>								
Total equals	Question 2-7,	line a T	otal equals C	uestion 2-	-7, line b	Tota	l equals Quest	tion 2-4
			_					
	lines i and			nd enter	the resul	t here.		
inis is <u>ne</u>	&D perform	ied by oth	<u>ers</u> .	(2)			(2)	
D	(1) omestic		F	(2) oreign			(3) Worldwide	
\$Bil.	∕lil. TI	hou.        \$	Bil. M	il.	Thou.	\$Bil.	Mil.	Thou.
2-10 Subtract	2-9 from 2	-8. line m.	for each c	olumn a	nd enter	the resul	t here.	
	&D perform							
	(1)		_	(2)			(3)	
	<b>lomestic</b> /lil. Tl	hou. \$	F BBil. M	oreign	Thou.	\$Bil.	Worldwide Mil.	Thou.
фDII.	/III. II	nou. 4	DDII. IVI	II.	illou.	фЫІ.	IVIII.	Tilou.
							&D was per	
in the fol	lowing loc	ations? For	full list of cou	ntries in ea	ch region see	Question I	<b>&amp;D was per</b> loy Question Gui	
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in the fol	lowing loc census.gov/pro	ations? For grams-surveys	full list of cou s/brds/informat	ntries in ea	ch region see	e Question I	oy Question Gui	dance at
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2-11 (Continued	d)						
Spain				Malaysia			
Sweden				New Zealand			
Switzerland				Singapore			
Turkey				South Korea			
United Kingdom				Taiwan			
Other Europe				Thailand			
Latin America/				Other Asia/ Pacific			
Other Western Hemisphere	\$Bil.	Mil.	Thou.	Middle East	\$Bil.	Mil.	Thou.
Argentina				Israel			
Brazil				Other Middle East			
Chile				Africa	ΦD:1	8.611	T:
Mexico				South Africa	\$Bil.	Mil.	Thou.
Other Latin America/OWH							
Asia and Pacific	ΦD:I	D. A.C.I	There	Other Africa <b>Total</b> (equals			
Australia	\$Bil.	Mil.	Thou.	Question 2-10, column 2)			
China							
Hong Kong							
India							
Indonesia							
muonesia							
Japan							

2-12 How much each state				ົນuestion 2-10, coluı	mn 1, wa	as perforn	ned in
	\$Bil.	Mil.	Thou.	l	\$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			
		Q	uestion conti	nues on next page			

Pennsylvania \$Bil. Mil. Thou. \$Bil. Mil. Thou.   Rhode Island Virginia Virginia   South Carolina Washington West Virginia	u.
Rhode Island	
South Carolina	
South Dakota West Virginia	
Tennessee	
Texas	
Utah	
Address 2	
City State ZIP	
2-14 How much of the amount reported in Question 2-10, column 1, was from the location identified in Question 2-13?	u.

Address 1			
Address 2			
City		State Z	IP
How much of the	amount reported in Question 2-10,	\$Bil. Mil.	Th
column 1, was from	m the location identified in		
Question 2-15?			
		Domestic R8 by your	company
Business code		by your	
		by your	
Business code  a.		by your	
		by your	
a		by your	
a b c d		by your	
a		by your	
a		by your	
a b c d f		by your	
a		by your	

R&D transactions between legal entities under comm	on own	ership	
2-18 How much of the domestic R&D performed by your comp 2-10, column 1, was paid for by your company's foreign s inter-company transactions?			
<b>Example:</b> Company Y owns a subsidiary in France. In order to complete the development of a product in 2018, the French subsidiary paid for R&D performed at Company Y's U.S. R&D center. The cost of the U.S. R&D that was paid for by the French subsidiary would be included in this item.	\$Bil.	Mil.	Thou.
2-19 How much of the foreign R&D performed by your company 2-10, column 2, was paid for by your company's domestic inter-company transactions?			
<b>Example:</b> Company Z owns a subsidiary in France. In order to complete the development of a product in 2018, the domestic operations paid for R&D performed at its subsidiary's R&D center in France. The cost of the French subsidiary's R&D that was paid for by the domestic operations would be included in this item.	\$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 <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. Universities, colleges, and academic researchers (including principal investigators) located <u>inside</u> the United States			
g. All other organizations <u>inside</u> the United States			
h. All other organizations outside the United States			
i. Total domestic R&D paid for by your company that was performed by others (equals Question 2-9, column 1)			



A set teleposition of the second second	
Activities with academia	
2-21 In addition to the amount reported in Question 2-20, line monetary gifts to U.S. universities or colleges in 2018 that	
☐ Yes → Continue with Question 2-22	
No → Skip to Question 2-23	
2-22 What was the amount of monetary gifts made by	\$Bil. Mil. Thou.
your company to U.S. universities or colleges in 2018 that was for R&D?	
Projected R&D for 2019	
2-23 What are your company's projected 2019 costs for (1) do (3) worldwide R&D paid for by your company?	omestic, (2) foreign, and
NOTE: These amounts are the 2019 projections for the arreported in Question 2-8, line m.	mounts
(1) (2) Domestic Foreign	(3) Worldwide
\$Bil. Mil. Thou. \$Bil. Mil. Thou.	\$Bil. Mil. Thou.
2-24 How much of the amount reported in Question 2-23.	Domestic
2-24 How much of the amount reported in Question 2-23, column 1, is for projected purchased R&D services and projected payments to business partners for	<b>Domestic</b> \$Bil. Mil. Thou.
column 1, is for projected purchased R&D services	
column 1, is for projected purchased R&D services and projected payments to business partners for	
column 1, is for projected purchased R&D services and projected payments to business partners for	
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column 1, is for projected purchased R&D services and projected payments to business partners for	
column 1, is for projected purchased R&D services and projected payments to business partners for	

# **SECTION 2 WORKSHEET**

	Complete if amount reported in Question 2-4 is less that	n \$1 Mill	ion
1	Of the total R&D paid for by your company reported in Question 2 were incurred in the following locations?	2-4, 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 eatypes of costs?	ach of the \$Mil.	following Thou.
	a. Salaries, wages, and fringe benefits		
	b. Payments to business partners for collaborative R&D		
	c. Purchased R&D services		
	d. All other costs		
	e. <b>Total</b> (equals Question 1, line a)		
3	Add Question 2, lines a and d, and enter the result here. This is the domestic R&D paid for and performed by your company in 2018.	\$Mil.	Thou.
4	Of the domestic R&D paid for and performed by your company re Question 3, how much was for the following categories?	ported in	
	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. <b>Total</b> (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.

th	hat were your company's <u>worldwide costs</u> (both direct a e following that were funded, paid for, or reimbursed by our company?			
•	x <b>clude:</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 2018.											
Is this amount: \$0 → □ If Question 2-4 was also \$0, then you have completed this survey,	Is this amount:										
otherwise skip to Section 4 on page 34.	otherwise skip to Section 4 on page 34.										
Less than \$1 Million → [509] Skip to Section 3 Worksheet on page 33 and then continue with Section 4 on page 34.											
\$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?   \$\text{\text{Bil.}} \text{\text{Mil.}} \text{\text{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)											
c. Total (equals Question 3-1, line j)  How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?	<u>rs</u>										
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1) (2) (3)	<u>rs</u>										
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1) (2) (3) (3) Poreign Worldwide  \$Bil. Mil. Thou. \$Bil. Mil. Thou. \$Bil. Mil. Thou.											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1) Domestic (2) Foreign Worldwide											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1) (2) (3) (3) Poreign Worldwide  \$Bil. Mil. Thou. \$Bil. Mil. Thou. \$Bil. Mil. Thou.											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1) (2) (3) (3) Poreign Worldwide  \$Bil. Mil. Thou. \$Bil. Mil. Thou. \$Bil. Mil. Thou.											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1) Comestic Foreign Worldwide  \$Bil. Mil. Thou. \$Bil. Mil. Thou.  a. Salaries, wages, and fringe benefits											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1) Comestic Foreign Worldwide  \$Bil. Mil. Thou. \$Bil. Mil. Thou.  a. Salaries, wages, and fringe benefits											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1) CONTROL SEIL MIL Thou. SEIL MIL Thou. SEIL MIL Thou.  a. Salaries, wages, and fringe benefits  b. Stock-based compensation											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1)											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1) CONTROL SEIL MIL Thou. SEIL MIL Thou. SEIL MIL Thou.  a. Salaries, wages, and fringe benefits  b. Stock-based compensation											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1)											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1)											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1) CONDOMESTIC FOREIGN WORLDWING MILL Thou. SBILL MILL Thou. SBILL MILL Thou.  a. Salaries, wages, and fringe benefits  b. Stock-based compensation  c. Leased employees and temporary staffing, including on-site consultants, working on R&D  d. Expensed equipment (not capitalized)											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?  (1) CONDOMESTIC FOREIGN WORLDWING MILL Thou. SBILL MILL Thou. SBILL MILL Thou.  a. Salaries, wages, and fringe benefits  b. Stock-based compensation  c. Leased employees and temporary staffing, including on-site consultants, working on R&D  d. Expensed equipment (not capitalized)											
How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by other in 2018 was for each of the following types of costs?    Comestic   Foreign   Worldwide   SBil.   Mil.   Thou.   SBil.   Mi											



3-3 (0	Continued)							
	(1) Domestic			(2) Foreign			(3) Worldwide	
\$Bil		Thou.	<u>\$Bil.</u>	Mil.	Thou.	<u>\$Bil.</u>	Mil.	Thou.
g. Depre	ciation and amo	rtization on F	R&D proper	rty, plant, e	quipment, a	ınd intangi	ble assets	
h. Royalt	ies and licensing	g fees (includin	ng payments	made to other	s for the use	of patents and	d other forms of	intellectual
property	y used in your comp	raily s h&D)						
i. Collab	orative R&D pay	ments (includ	e joint develo	opment agreei	ments)			
i. Contra	nct R&D (include p	payments to yo	ur company	's foreign pa	rent for R&D)			
				3 pa				
k. Other	purchased servi	ces						
I All oth	or costs (including	a administrativo	and averbag	nd agata <b>alaga</b>	v cassisted	with your o	omnony's PSF	
I. All oth	ner costs (including	g administrative	and overnea	id costs clear	y associated	with your c	ompany s K&L	
m. <b>Total</b>								
Tota	al equals Question	3-2, line a	Total equ	als Question	3-2, line b	Total eq	uals Question	3-1, line j
	dd 3-3, lines i a his is <mark>R&amp;D per</mark> l						ıgh R&D co	sts).
	(1) Domestic			(2) Foreign			(3) Worldwide	
\$Bil		Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
	1							
	ubtract 3-4 fro his is <u>R&amp;D per</u>			pany that v			ers.	
\$Bil	(1) Domestic . Mil.	Thou.	\$Bil.	<b>(2)</b> Foreign Mil.	Thou.	\$Bil.	(3) Worldwide Mil.	Thou.
االطه	. Iviir.	Thou.	ψυII.	IVIII.	mod.	φυπ.	TVIII.	Tilou.

			or full list of co	untries in each region see ation/brdshelp.html#q3-6.	Question b		rformed Guidance at
intepoin www.ox	\$Bil.	Mil.	Thou.	<u> </u>	\$Bil.	Mil.	Thou.
Canada				Switzerland			
Puerto Rico				Turkey			
Europe	\$Bil.	Mil.	Thou.	United			
Austria				Kingdom Other			
Belgium				Europe			_
Czech Rep				Hemisphere	\$Bil.	Mil.	Thou.
Denmark				Argentina			
Finland				Brazil			
				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				Singapore			

South Korea   Seli	_							
Thailand	3-6 (Continue		Mil.	Thou.	Africa	\$Bil.	Mil.	Thou.
Thailand	South Korea				South Africa			
Thailand  Other Asia/ Pacific  Middle East SBil. Mil. Thou.  Other Widdle East  Thou 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 1-117  Allocate R&D that is applicable to more than one business code on a reasonable basis. Allocation in proportion to operating revenues is acceptable unless some alternative allocation basis is more appropriate.  Business code SBil. Mil. Thou.  a  b  c  d  h  f  g  h  Total (equals Question 3-5, column 2)  Thou.								
Thailand	Гаiwan							
Other Asia/ Pacific	Γhailand				Question 3-5,			
State I					001a11111 2/1			
Cither Middle East	Middle East	\$Bil.	Mil.	Thou.				
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?  Allocate R&D that is applicable to more than one business code on a reasonable basis. Allocation in proportion to operating revenues is acceptable unless some alternative allocation basis is more appropriate.  Business code  SBII. Mill. Thou.  c.  d.  e.  f.  g.  h.	srael							
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?  Allocate R&D that is applicable to more than one business code on a reasonable basis. Allocation in proportion to operating revenues is acceptable unless some alternative allocation basis is more appropriate.  Business code  SBii. Mil. Thou.  a.  b.  c.  d.  e.  f.  g.								
others reported in Question 3-5, column 1, was for each business code listed or amended in Question 1-11?  Allocate R&D that is applicable to more than one business code on a reasonable basis. Allocation in proportion to operating revenues is acceptable unless some alternative allocation basis is more appropriate.  Business code \$BII. Mil. Thou.  a.	7 Hans	of 4b -	domestis !	D9.D	mad by varies	omy 4l4		for be
Allocate R&D that is applicable to more than one business code on a reasonable basis. Allocation in proportion to operating revenues is acceptable unless some alternative allocation basis is more appropriate.  Business code \$Bil. Mil. Thou.  a.	others rep	orted in	Question					
a.	Allocation in	proportio	on to operati					
b.	Busine	ss code	I			\$Bil.	Mil.	Thou.
c.	a							
d.	b. 0							
d.			-					
e. f. g. h.	с.							
f.	d							
g	e							
g. 00000	f.							
h. 00000 000000000000000000000000								
	g.							
i. <b>Total</b> (equals Question 3-5, column 1)	h.							

<b>Example:</b> Company Sub Inc. performs custom software development in a subcontractor on a contract with the U.S. Dept. of Defense. Even thou for the defense company, it reports the cost of this development in line			
was the original source of funds.	ugh Sub In	c. is workin	g directly
	\$Bil.	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 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 outside 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, column 1)			
Add Question 3-8, lines a, b, and c, and enter the result here. This is the domestic R&D performed by	\$Bil.	Mil.	Thou.
	2. Your company's foreign parent (if you are owned by a foreign parent).  2. Other companies located <u>outside</u> the United States	D. Your company's foreign parent (if you are owned by a foreign parent).  D. Other companies located outside the United States	2. Your company's foreign parent (if you are owned by a foreign parent).  2. Other companies located outside the United States

3-10	Qu	est	ion	3-9	) ba	ased	siness codes printed below, allocate the on the industries of the companies the ditional codes from pages 49-50 in the	at paid	for the R&	D.
	Business code					le	Description	\$Bil.	Mil.	Thou.
	a.	3	2	5	4	3	Biotechnology-based pharmaceutical and biological products (except diagnostics)			
	b.	3	2	5	4	1	Pharmaceutical, medicinal, and botanical products manufacturing			
	c.	3	3	5	0	0	Electrical equipment, appliances, and components manufacturing			
	d.	3	3	4	4	0	Semiconductor and other electronic components manufacturing			
	е.	3	3	9	1	0	Medical equipment and supplies manufacturing			
	f.	3	3	6	1	0	Motor vehicles manufacturing			
	g.									
	h.									
	i.									

j. **Total** (equals Question 3-9) .....

3-11 How much of the amount reported in Question 3-8, line d was paid for by the following agencies?		N.A.:	The
	\$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?			
The performed under the remember 17 per or agreementer	\$Bil.	Mil.	Thou.
Contracts (include direct or prime contracts and subcontracts)	ФВП.		
b. Grants, reimbursements, and all other agreements			
c. <b>Total</b> (equals Question 3-8, line d)			
3-13 Subtract Question 3-8, line d, from Question 3-8, line k,	\$Bil.	Mil.	Thou.
and enter the result here. This is the domestic R&D performed by your company that was paid for by nonfederal sources.	الطو		Thou.

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									
<ul> <li>(2) Domestic R&amp;D paid for by nonfederal sources reported in Question 3-13</li> <li>(3) Total domestic R&amp;D performed by your company that was paid for by others reported in Question 3-5, column 1</li> </ul>									
·	(1) Federal		, o, ooian	(2) Nonfedera	al		(3) Total		
\$Bil. Alabama	Mil.	<u>Thou.</u>	<u>\$Bil.</u>	Mil.	Thou.	\$Bil.	Mil.	Thou.	
Alaska									
Arizona									
Arkansas									
California									
Colorado									
Connecticut									
Delaware									
District of Col	umbia								
Florida									
Georgia									
Hawaii									
		Q	uestion c	ontinues on	next page				

3-14 (Continued)			(2)			(3)			
(1) Federal <u>\$Bil.</u> <u>Mil.</u>	Thou.	<u>\$Bil.</u>	(2) Nonfederal <u>Mil.</u>	Thou.	<u>\$Bil.</u>	(3) Total <u>Mil.</u>	Thou.		
Idaho									
Illinois									
Indiana									
lowa									
Kansas									
Kontuolov									
Kentucky									
Louisiana									
Maine									
Maryland									
Massachusetts									
Michigan									
Minnesota									
Mississippi									
	Question continues on next page								

3-14 (Con	ntinued)							
	(1) Federal		<b>45</b> .1	(2) Nonfederal	<b>-</b>	ΦD'I	(3) Total	<del>-</del>
\$Bil. Missouri	Mil.	<u>Thou.</u>	\$Bil.	Mil.	Thou.	\$Bil.	<u>Mil.</u>	Thou.
Montana								
Nebraska								
Nevada								
New Hamps	hire							
New Jersey								
New Mexico								
New York								
North Caroli	na							
North Dakot	a							
Ohio								
Oklahoma								
Oregon								
		Q	uestion co	ontinues on n	ext page			

3-14 (Contin				(2)			(3)	
\$Bil. Pennsylvania	(1) Federal Mil.	Thou.	<u>\$Bil.</u>	(2) Nonfederal <u>Mil.</u>	Thou.	\$Bil.	(3) Total <u>Mil.</u>	Thou.
Termsylvania								
Rhode Island								
South Carolina								
South Dakota								
Tennessee								
Texas								
Utah								
Vermont								
Verificial								
Virginia								
Washington								
West Virginia								
Wisconsin								
Wyoming								
		Q	uestion c	ontinues on n	ext page			

3-14	(Continued)						
	(1) Federal \$Bil. Mil.	<u>Thou.</u>	\$Bil.	(2) Nonfederal Mil.	<u>Thou.</u>	<u>\$Bil.</u>	(3) Total  Mil. Thou.
Total							
	Total equals Question	3-8, line d	Total ed	quals Questi	on 3-13	Total equals (	Question 3-5, column 1
3-15	At what domest				erform the	largest do	llar amount of
	Address 1	,					
	Address 2						
	City					State	ZIP
						\$Bil.	Mil. Thou.
3-16	How much of the column 1, was for Question 3-15?				3-5,		
3-17	At what domest	ic location d that was pai	lid your c id for by	company pothers in 2	erform the 2018?	second lar	gest dollar
	Address 1						
	Address 2						
	City					State	ZIP
3-18	How much of the column 1, was for Question 3-17?				3-5,	\$Bil.	Mil. Thou.

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	\$Bil.	Mil.	Thou.
U.S. federal government agencies or laboratories?			
Projected R&D paid for by others in 2019			
3-20 What are your company's projected <u>2019</u> costs for R&D that will be paid for by others?	\$Bil.	Mil.	Thou.
NOTE: This amount is the 2019 projection for what is reported in Question 3-1, line j.			
3-21 How much of the projected costs in 2019 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 2019 projection for what is reported in Question 3-5, column 1.			
How much of the projected costs in 2019 for domestic R&D performed by your company reported in Question 3-21 will be paid for by the U.S. federal government?	\$Bil.	Mil.	Thou.
NOTE: This amount is the 2019 projection for what is	фы.	IVIII.	Triou.
reported in Question 3-8, line d.			

# **SECTION 3 WORKSHEET**

	implete if amount reported in Question 3-1, line j is less	Liiaii Ə i	willion
1	Of the total R&D paid for by others reported in Question 3-1, line were incurred in the following locations?	j, what co	sts
	••••••••••••••••••••••••••••••••••••••	\$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 e	ach of the	
	following types of costs?	\$Mil.	Thou.
	a. Salaries, wages, and fringe benefits		
	b. Payments to business partners for collaborative R&D		
	c. Purchased R&D services		
	d. All other costs		
	e. <b>Total</b> (equals Question 1, line a)		
3	Add Question 2, lines a and d, and enter the result here. This is the domestic R&D performed by your company that was paid for by others in 2018.	\$Mil.	Thou.
4	Of the domestic R&D performed by your company that was paid f reported in Question 3, how much was for the following categories		ers
	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)		



# **Capital Expenditures**

### Who should answer this section?

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

### What does this section cover?

This section requests financial information about your company's capital expenditures, specifically those for R&D operations.

-	and the second s	\$Bil.	Mil.	Thou.
4-1	What was the amount of your company's capital expenditures in the domestic United States in 2018?			
	expenditures in the domestic Officer States in 2010:			
		\$Bil.	Mil.	Thou.
4-2	How much of the amount reported in Question 4-1 was for R&D operations?			
	indo for indep oporations.			
4-3	How much of the amount reported in Question 4-2 was			
	for the following?	\$Bil.	Mil.	Thou.
	a. Land acquisition			
	b. Buildings and land improvement			
	c. Equipment			
	d. Capitalized software			
	e. All other capital expenditures for R&D operations			
	f. Total domestic capital expenditures for R&D			
	(equals Question 4-2)			
4-4	Was any of the amount reported in Question 4-2 funded,			
	paid for, or reimbursed by others not owned by your			
	company (including your foreign parent)?		. L Yes	□ No



# **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 5-15 on page 37.

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 2018 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 2018, Company A reports this R&D in this question.

%			
70	0/		
	70		

Thou.

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

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.

5-3 How much of the amount reported in Question 5-2 was for the following categories?

Research-planned, systematic pursuit of new knowledge or understanding		

b. Development-systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new products or processes or to improving existing 

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

\$Bil.	Mil.	Thou.

problem or meeting a specific commercial objective..... b. Basic research-activities aimed at acquiring new knowledge or understanding without specific immediate

$\overline{}$			-

Area	as of application for domestic R&D paid for and performed by y	our 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 2018, 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.	<u>%</u>				
5-6	What percentage of the amount reported in Question 5-2 had environmental protection applications, including pollution abatement?	<b>%</b>				
5-7	What percentage of the amount reported in Question 5-2 had defense applications, including military applications and homeland security-related R&D?	<b>%</b>				
5-8	What percentage of the amount reported in Question 5-2 had health or medical applications?	<b>%</b>				
5-9	What percentage of the amount reported in Question 5-2 had agricultural applications?	<b>%</b>				
Technology focus of domestic R&D paid for and performed by your company						
NOTE	: You may report the same R&D in multiple areas for Questions 5-10 to 5	5-13.				
5-10	What percentage of the amount reported in Question 5-2 was for software products or software embedded in other projects or products	?				
5-11	What percentage of the amount reported in Question 5-2 was for biotechnology? For list-based definition see Question by Question Guidance at https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-11					
	<b>Biotechnology</b> – The application of science and technology to living organisms, as well as parts, products and models thereof, to alter living or non-living materials for the production of knowledge, goods and services.	%				
5-12	What percentage of the amount reported in Question 5-2 was for nanotechnology? For list-based definition see Question by Question Guidance at https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-12					
	<b>Nanotechnology</b> – The application of science and technology to organisms, organic and inorganic materials as well as parts, products, and models thereof, at the nanometer-scale (but not exclusively below 1000 nanometers).	<b>%</b>				
5-13	What percentage of the amount reported in Question 5-2 was for artificial intelligence (AI)? For a detailed definition see Question by Question Guidance at https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-13					
	<b>Artificial Intelligence (AI)</b> – A branch of computer science and engineering devoted to making machines intelligent. Intelligence is that quality that enables an entity to perceive, analyze, determine response and act appropriately in its environment.	<u>%</u>				



Characteristics of foreign R&D paid for and performe	d by yo	our comp	any
5-14 Copy the amount from Question 2-10, column 2. This is the foreign R&D paid for and performed by your company.	\$Bil.	Mil.	Thou.
5-15 How much of the foreign R&D paid for and performed by your company reported in Question 5-14 was for the following categories?	\$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)			
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.	_		
5-17 How much of the amount reported in Question 5-16 was for the following categories?  a. Research-planned, systematic pursuit of new	\$Bil.	Mil.	Thou.
<ul> <li>knowledge or understanding</li> <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.
<ul> <li>a. <u>Applied research</u>–activities aimed at solving a specific problem or meeting a specific commercial objective</li> </ul>			
b. <u>Basic research</u> –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)			



NOTE: You may report the same R&D in multiple areas for Questions 5-19 to 5-2	23.
What percentage of the amount reported in Question 5-16 had energy applications, including energy production, distribution, storage, and efficiency (excluding exploration and prospecting)?	%
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?	<u>%</u>
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 to paid for by others	hat was
NOTE: You may report the same R&D in multiple areas for Questions 5-24 to 5-2	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?	%
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	
<b>Biotechnology</b> – 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 5-16 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	
<b>Nanotechnology</b> – The application of science and technology to organisms, organic and inorganic materials as well as parts, products, and models thereof, at the nanometer-scale (but not exclusively below 1000 nanometers).	%
What percentage of the amount reported in Question 5-16 was for artificial intelligence (AI)? For a detailed definition see Question by Question Guidance at https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-27	
<b>Artificial Intelligence (AI)</b> – A branch of computer science and engineering devoted to making machines intelligent. Intelligence is that quality that enables an entity to perceive, analyze, determine response and act appropriately in its environment.	%



Domestic R&D performed by your company that was U.S. federal government	paid fo	or by the	
	\$Bil.	Mil.	Thou.
5-28 Copy the amount from Question 3-8, line d. This is the domestic R&D performed by your company that was paid for by the U.S. federal government.			
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	фы.		
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.
<ul> <li>a. Applied research—activities aimed at solving a specific problem or meeting a specific commercial objective</li> </ul>			
<ul> <li>Basic research—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 co for 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. <a href="Development">Development</a> —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)			



# **SECTION 6**

## **Human Resources**

#### Who should answer this section?

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

## What does this section cover?

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

6-1	How many employees reported in Question 1-9 were R&D employees and how
	many were <u>all other employees</u> ?

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

	(1) Domestic operations	(2) Foreign operations	(3) Total employees
a. R&D employees		000000	
b. All other employees			
c. Total employees			

Total line equals Question 1-9

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

(1) Total Employees	(2) R&D employees	(1) Total Employees	(2) R&D employees
Alabama		Colorado	
Alaska		Connecticut	
Arizona		Delaware	1
Arkansas		District of Columbia	
California		Florida	
	000000		000000
	Question continu	ies on next page	



6-2 (Continued) (1) Total Employees	(2) R&D employees	(1) Total Employees	(2) R&D employees
Georgia		Minnesota	
Hawaii		Mississippi	
ldaho		Missouri	
Illinois		Montana	
Indiana		Nebraska	
lowa		Nevada	
Kansas		New Hampshire	
Kentucky	1	New Jersey	
Louisiana		New Mexico	
Maine		New York	
Maryland		North Carolina	
- Marylana		TOTAL CALCULATION	
Massachusetts		North Dakota	
Michigan		Ohio	
	Question continue	es on next page	

(Continued) (1) Total Employees	(2) R&D employees	(1) Total Employees	(2) R&D employe
Oklahoma	nab employees	Utah	nab employe
	000000		
Oregon		Vermont	
		000000	
Pennsylvania		Virginia	
Rhode Island		Washington	
South Carolina		West Virginia	
South Dakota		Wisconsin	
South Dakota		WISCONSIN	
Tennessee		Wyoming	
Texas		Total	
How many of the er	nplovees reported in Q	uestion 6-1, column 2, we	ere emploved i
each location (inclu	ding Puerto Rico)? (2)	(1)	(2)
Total Employees	R&D employees	Total Employees	R&D employe
Canada		Czech Rep	
Puerto Rico		Denmark	-
Europe		Finland	
Europe Austria		Finland	
		Finland	
Austria			



6-3	Continued) (1) Total Employees	(2) R&D employees	(1) Total Employees	(2) R&D employees
	Germany	• •	United Kingdom	. ,
F	lungary		Other Europe	
li	reland		Latin America/Other W	lestern Hemisphere
			Argentina	
li Ii	taly			
			Brazil	
L	uxembourg			
			Chile	
	Netherlands			
			Mexico	
	Norway			
			Other Latin America/O	WH
F	Poland			
			Asia and Pacific	
_ F	 Russia		Australia	
S	Spain		China	
-	Sweden		Hong Kong	
			Hong Kong	
5	Switzerland		India	
Т	urkey		Indonesia	
		Question continues on	next page	

Malaysia New Zealand		Total Employees  Middle East  Israel  Other Middle East	
		Other Middle East	
		Other Middle East	
New Zealand		Other Middle East	
New Zealand			
		Africa	
Singapore		South Africa	
South Korea		Other Africa	
Taiwan		Total	
Thailand			
Other Asia/Pacific			
employees			
How many of the P&F	) employees reported i	n Augstian 6-1 line a	word famala
employees and male	employees?	(2)	(3)
	Domestic Operations	Foreign Operations	Total R&D employee
a. Female R&D employe			
a. Temale nab employe			
b. Male R&D employees	s UUUUU		
c. Total R&D employe	es		
	Tot	tal line equals Question 6-1,	line a



6-5	How many of the R&D occupations listed belo		Question 6-1, line a	, worked in the
	a. Researchers (including R&D scientists, engineers, and their managers)	(1) Domestic Operations	(2) Foreign Operations	(3) Total R&D employees
	b. R&D technicians and equivalent staff	00000	000000	00000
	c. R&D support staff (clerical and other)	. 000000		000000
	d. Total R&D employee		000000	000000
		Total	l line equals Question 6-1	, line a
6-6	How many of the reseal level of education?	<u>-</u>		_
		(1) Domestic Operations	(2) Foreign Operations	(3) Total
	PhD (excluding MD, JD, and EdD)			
Dom	nestic full-time equiv	alents (FTEs)		
6-7	Of the domestic R&D employees, other full-tiemployees?	time equivalents (FTEs	) for R&D activity for	or full-time R&D
	employees:			Number
	a. FTEs for full-time R&D  Count the number of fu	employees Ill-time employees who v	vork only on R&D	. 000000
	<b>Example:</b> 50 full-time R&D employ	ees worked only on R&D =	50 FTEs	
	L ETE C CU.			
		me they work on R&D to	calculate the	. 000000
	<b>Example:</b> 60 full-time employees a	veraged one-fourth of their	time on R&D = 15 FTEs	
	c. FTEs for part-time emp	lovoco working on P9.D		
	Use the share of a full-	time week (such as 40 ho FTEs		. 000000
	<b>Example:</b> 20 part-time employees a	averaged 20 hours a week c	n R&D activities = 10 FTI	Es
	d. Total FTEs			. 000000
		Total FTEs sho	uld not exceed Questic	on 6-1, line a, column 1.



6-8	Of the domestic researchers reported in Question 6-5, line a, column the number of full-time equivalents (FTEs) for R&D activity for full employees, other full-time employees not working solely on R&D, employees?	l-time R&D
	a. FTEs for full-time researchers  Count the number of full-time employees who work only on R&D	Number
	<b>Example:</b> 50 full-time R&D scientists worked only on R&D = 50 FTEs	
	b. FTEs for other full-time researchers not working solely on R&D  Use the share of the time they work on R&D to calculate the number of FTEs	
	<b>Example:</b> 60 full-time managers averaged one-fourth of their time on R&D = 15 FTEs	
	c. FTEs for part-time researchers working on R&D  Use the share of a full-time week (such as 40 hours) that they work on R&D to calculate the FTEs	
	Example: 20 part-time employees averaged 20 hours a week on R&D activities = 10 FTE	s
	d. Total FTEs	
6-9	How many of the domestic researchers reported in Question 6-5, lwere non-U.S. citizens employed in the United States under a tem as H-1B or L-1?	ine a, column 1,
	Researchers employed under a temporary visa	00000
6-10	In addition to the R&D employees reported in Question 6-1, line a leased employees and temporary staff, including on-site consultain the occupations listed below?	
	a. Researchers (including R&D scientists, engineers, and their managers)	(3) Total leased and temporary employees working on R&D
	b. R&D technicians and equivalent staff	
	c. R&D support staff (clerical and other)	000000
	d. Total leased and temporary employees working on R&D	



# **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?

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.

IOta	al patents and utility patents			
7-1	How many total patents did your company <u>apply</u> for in 20 the U.S. Patent and Trademark Office (USPTO)?	)18 from		Number
7-2	Of the patent applications reported in Question 7-1, what number of <u>nonprovisional utility patent</u> applications?	t was the		Number
7-3	What percentage of the <u>nonprovisional utility patent</u> appreported in Question 7-2 has your company applied for or apply for in foreign jurisdictions?			%
7-4	What percentage of the <u>nonprovisional utility patent</u> appreported in Question 7-2 was for inventions that originat your company's organized R&D activities?			%
7-5	What percentage of your company's inventions considered patenting in 2018 resulted in nonprovisional utility pater		ions?	%
7-6	How many <u>utility patents</u> were <u>issued</u> to your company in the USPTO?	2018 by		Number
Util	ity patent sales and licensing to others			
7-7	How much revenue did your company receive in 2018 from the sale of utility patents?	\$Bil.	Mil.	Thou.
7-8	How much revenue did your company receive in 2018 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 <u>from others</u>		
7-10 How much did your company pay others in 2018	Mil.	Thou.
to purchase utility patents?		
7-11 How much did your company pay others in 2018	Mil.	Thou.
to license utility patents?		
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
Intellectual property transfer activities		
7-13 Did your company perform the following activities in 2018?		
a. Transferred intellectual property (IP) to others not owned by your company through participation in technical assistance or "know how" agreements	☐ Yes	□ No
<ul> <li>Received IP from others not owned by your company through participation in technical assistance or "know how" agreements</li> </ul>	☐ 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 spin-out	Yes	□ No
e. Acquired more than 50% ownership in another company for the primary purpose of acquiring their IP	□ Yes	□ No
f. Acquired any financial interest in another company in order to gain access to their IP	Yes	□ No
g. Participated in cross-licensing agreements—the agreements in which two or more parties grant a license to each other for the use of the subject matter claimed in one or more of the patents owned by each party	O Yes	□ No
h. Allowed free use of patents or other IP owned by your company (for example, open source software)	Yes	□ No
i. Made use of open source patents or other freely available IP not owned by your company	Yes	□ No
Intellectual property protection		
7-14 During 2018, how important to your company were the following types of intellectual property protection?	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)		
Research and experimentation tax credit		
7-15 Did your company file for the tax credit for increasing research activities (IRS Form 6765) in 2018?	☐ Yes	□ No



Busir	ness codes	Consu	mer 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	Beverage manufacturing
33641	Aircraft manufacturing	33200 31100	Fabricated metal products manufacturing Food manufacturing
33644	Guided missiles, space vehicles, and parts	33700	Furniture and related products manufacturing
22602	manufacturing	32300	Printing and related support activities
33692	Military armored vehicle, tank, and tank components manufacturing	32591	Soap, cleaning compound, and toilet
33452	Search, detection, navigation, guidance,	21000	preparations manufacturing
	aeronautical, and nautical system and	31990	Textile, apparel, and leather products manufacturing
	instruments manufacturing	31220	Tobacco manufacturing
33660 33643	Ship and boat building Other aircraft parts and auxiliary equipment	33990	Miscellaneous manufacturing not listed
33043	manufacturing		elsewhere (games, office supplies,
<b>.</b> .	•		slot machines, etc.)
l	obiles, Motorcycles, and Components	Fneray	<i>y</i> and Mining
33620 33630	Motor vehicle body and trailer manufacturing	33360	Engine, turbine, and power transmission
33610	Motor vehicle parts manufacturing Motor vehicles manufacturing	33300	equipment manufacturing
33691	Motorcycle, bicycle, and parts manufacturing	21200	Mining
33651	Railroad rolling stock manufacturing	33319	Mining, oil, and gas field machinery and
33660	Ship and boat building	04400	equipment manufacturing
33699	All other transportation equipment	21100 32401	Oil and gas extraction Petroleum refineries
	manufacturing	21300	Support activities for mining,
_	l Equipment		including oil and gas
33311	Agricultural machinery and equipment manufacturing	Financ	e, Insurance, and Real Estate
33332	Commercial, service industry, temperature	52200	Finance: banking and credit intermediation
	control, and airflow control machinery	52400	Insurance carriers and related activities
	manufacturing	53100	Real estate
33312 33500	Construction machinery manufacturing Electrical equipment, appliances, and	52310	Securities, commodity contracts, and other
33300	components manufacturing		financial investments and related activities (including funds and trusts)
33360	Engine, turbine, and power transmission		(including funds and trusts)
22222	equipment manufacturing	Health	care
33322	Industrial machinery manufacturing, except semiconductor machinery	32543	Biotechnology-based pharmaceutical and
33390	Metalworking and other general purpose	00454	biological products (except diagnostics)
	machinery manufacturing	33451	Electromedical, electrotherapeutic, and irradiation apparatus manufacturing
33319	Mining, oil, and gas field machinery and	62200	Hospitals and nursing care facilities
33331	equipment manufacturing	32542	In vitro diagnostic substances manufacturing
33331	Photographic and photocopying equipment manufacturing	62150	Medical and diagnostic laboratories
	<b>G</b>	33910	Medical equipment and supplies manufacturing
	cals and Materials	62110 32541	Offices of physicians Pharmaceutical, medicinal, and botanical
32402	Asphalt paving, roofing, and saturated materials manufacturing	02011	products manufacturing
32510	Basic chemicals manufacturing	54173	Research and development services
32790	Cement, concrete, lime, gypsum, and other	F 4 4 7 4	in biotechnology
	nonmetallic mineral product manufacturing	54174	Research and development services in physical, engineering, and life sciences
32710	Clay and glass products manufacturing		(except biotechnology)
21200 32592	Mining Paint, adhesive, and other chemical	62199	Other ambulatory health care services
02002	manufacturing		(ambulance, dental, home health care)
32200	Paper manufacturing		
32530	Pesticide, fertilizer, and other agricultural		
32600	chemical manufacturing 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		
32100	preparations manufacturing Wood products manufacturing		
32403	Other petroleum and coal products		
	manufacturing, including motor oil,		
	hydraulic fluid, and charcoal		



Informa	Information Technology - Goods and Services		
33333	Digital cameras manufacturing		
51801	Cloud computing applications and internet		
	based software services		
54150	Computer systems design and related services		
33412	Computers and peripheral equipment		
	manufacturing, including magnetic and		
	optical media		
51800	Data processing, hosting, and related services		
33500	Electrical equipment, appliances, and		
4= 444	components manufacturing		
45411	Electronic shopping and electronic auctions		
33459	Measuring and control instruments		
	manufacturing (not listed elsewhere)		
33422	Radio, television, and wireless		
	communication equipment manufacturing		
33440	Semiconductor and other electronic		
	components manufacturing		
33321	Semiconductor machinery manufacturing		
51120	Software publishers (except Internet)		
33421	Telephone apparatus manufacturing		
	including routers, modems, and gateways		
42500	Wholesale electronic markets and		
	agents and brokers (business to business)		
33429	Other communication equipment		
	manufacturing (except radio, television,		
	and wireless communication equipment)		
51910	Other information services, including		
	Internet publishing, broadcasting,		
	and web search portals		

## **Professional, Scientific, and Technical Services**

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

## **Telecommunications and Utilities**

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

## **Other Services**

72000	Accommodation and food services
56100	Administrative and support services
71000	Arts, entertainment, and recreation
23000	Construction
49200	Couriers, messengers, and express delivery services
53300	Lessors of nonfinancial intangible assets (including patent licensing)
55100	Management of companies and enterprises
42300	Merchant wholesalers, durable goods
42400	Merchant wholesalers, nondurable goods
51200	Motion picture and sound recording
	(except Internet)
51110	Newspaper, periodical, book, and
	directory publishers (except Internet)
53200	Rental and leasing services
44000	Retail trade, except electronic shopping
	and electronic auctions
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)



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Approximately how long did it take to complete this survey?	Hours Minute
<b>Remarks</b> (Please use this space below for any explanations that may be essention eported data.)	al in understanding your
Thank You - Your Response is Important ccurate and timely statistical information could not be produced without young goodwill. Thank you.	ur continued cooperation
/e estimate this survey will take an average of 3.3 hours to complete, including structions, searching existing data sources, gathering and maintaining the data	

We estimate this survey will take an average of 3.3 hours to complete, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to:

ERD Survey Comments 0607-0912 U.S. Census Bureau 4600 Silver Hill Road Room ERD-6H128 Washington, DC 20233

You may email comments to erd.survey.comments@census.gov. Be sure to use "ERD Survey Comments 0607-0912" as the subject.

