

47132-0001

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

BRD-1 (01-13-2021)

2020 BUSINESS ENTERPRISE RESEARCH AND DEVELOPMENT SURVEY

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

DUE DATE :
Need help or have questions about filling out the form?
Visit https://www.census.gov/ programs-surveys/brds/ information.html
Here, you can access question-by-question detailed instructions and learn more about the survey.
Call toll-free 1-800-416-3262, between 8:00 a.m. and 8:00 p.m. Eastern time, Monday through Friday.
Please file your form electronically (see details below).
Or mail your completed form to:
U.S. CENSUS BUREAU 1201 EAST 10th STREET JEFFERSONVILLE, IN

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

(Please correct any errors in this mailing address)

Authentication Code:

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

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

We estimate this survey will take an average of 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 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 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.

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 2019 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 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. Two tax credit questions were moved from Section 7 to Section 8. A contact information question was added at the end of Sections 2 through 8. For a list of specific changes go to https://www.census.gov/programs-surveys/brds/about/faq.html.

Electronic materials

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

Available materials include:

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

Filing electronically

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

What is Research and Development (R&D)?

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

The term R&D does **NOT** include expenditures for:

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

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

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

R&D activity in software INCLUDES:

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

R&D activity in software EXCLUDES:

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

Reporting unit

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

Reporting period

Report data for the calendar year 2020, if possible, or for your company's fiscal year ending between April 2020 and March 2021.

Estimates are acceptable

Please report all items to the best of your ability.

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

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

	SECTION 1 Company Information
1-1	Has your company ceased operations?
	Yes → Please provide the following information: (MM) (DD) (YYYY)
	Date your company ceased operations
	REPORTING INSTRUCTIONS: If your company ceased operations between April 1, 2020 and December 31, 2020, report only for the period January 1, 2020 to the date your company ceased operations. If your company ceased operations before April 1, 2020, complete Question 1-7 and return this form to the Census Bureau - you are not required to complete the rest of this survey.
	□ No
1-2	Did another U.S. company own more than 50% of the voting interest in your company during 2020?
	Yes → Please provide the following information:
	Name of parent company
	EIN of owner (9 digits) (MM) (DD) (YYYY)
	company purchased your company
	Is the parent company a holding company or a private equity firm [shell company,
	investment company, and the like]?
	☐ Yes
	□ No
	REPORTING INSTRUCTIONS FOR U.SOWNED COMPANIES: If your company was purchased by a holding company or private equity firm you are required to complete the rest of this survey (regardless of purchase date). Otherwise, if your company was purchased between April 1, 2020 and December 31, 2020, report only for the period January 1, 2020 to the date of purchase. If your company was purchased before April 1, 2020 then complete Question 1-7 and return this form to the Census Bureau - you are not required to complete the rest of this survey unless your owner instructs you to complete this survey.
	□ No
1-3	Will the information in this survey be reported for the 2020 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 2020?
100	Yes → Please provide the following information:
	3
	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 2020?
	 Yes → Include data for these operations/subsidiaries in your survey responses No
1-6	Did your company have discontinued operations in 2020?
	Yes → Include data for these operations in your survey responsesNo
-7	Who is the survey coordinator?
	The survey coordinator is the person at your company responsible for gathering all requested information, ensuring instructions are followed, and submitting the completed survey. The survey coordinator may not be able to personally complete the entire survey and may need to request information from other knowledgeable resources concerning your company's R&D, accounting, human resources, and legal matters.
	Name
	Telephone Title Area code Number Extension
	E-mail address

	Include:			Number
	 Full- and part-time employer Exclude: 	ees		
	Leased or temporary emplo	oyees and consultants		
	How many of the employ your company's domesti			ees of
	Domestic operations emplo first quarter filing of IRS Form			orted on the
		(1) Domestic operations	(2) Foreign operations	(3) Total employees
	Employees			Total equals Question
If +	the number reported in Ques	tion 10 column 1 was f		•
Cel	ne number reported in Ques nsus Bureau - you are not re	equired to complete the re	est of this survey.	
SII	ness Codes			
0	Please describe your con	npany's primary busine	ess activity during 2	2020.
0	Please describe your con	npany's primary busine	ess activity during 2	2020.
0	Please describe your con	npany's primary busine	ess activity during 2	2020.
0	Please describe your con	npany's primary busine	ess activity during 2	2020.
1	Please describe your con List all applicable busine in 2020.			
	List all applicable busine in 2020. NOTE: These codes will be may differ from industry or you search for appropriate	ess codes in which your e used to describe both bodes used by other gover	r company operated usiness activities and rement surveys and reable at	I worldwide R&D activities and eports. Tools to help
	List all applicable busine in 2020. NOTE: These codes will be may differ from industry come.	ess codes in which your e used to describe both bodes used by other gover	r company operated usiness activities and rement surveys and reable at	I worldwide R&D activities and eports. Tools to help
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fo		t of your co	ompany's <u>wor</u> l	dwide sale:	s and rev	<u>enues</u>	
	r the year 2020?				\$Bil.	Mil.	Thou.
	nclude: Sales and operating re	venues from	discontinued one	rations			
	Jaies and operating re	venues nom	discontinued ope				
	ow much of the am om domestic opera		ed in Question	n 1-12 was	attributal	ble to or o	riginated
	nclude: Sales and operating re including foreign subs						
E	xample: U.S. Manufact	uring Corpora	tion sells parts to		\$Bil.	Mil.	Thou.
	ustomers around the wo perations are located in			s 100%			
	f its sales in this question						
-14 Ho	ow much of the 202	20 sales and	d operating re	venue amoi	ınts was	for each b	usiness
	ode listed or amend 1) Worldwide sales			anartad in	Ouestion	1-12	
	2) Sales and operat						stion 1-13
		Wor	(1) Idwide sales and		Salas and	(2) d operating re	ovanijas
		оре	erating revenues		from de	omestic oper	ations
	Business code	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
a.							
a.			000 0				
b.							
D.							
C.							
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e.							
e. f.							
f.							
f. g.							
f. g. h.							
f. g.	Less eliminations the sales and revenues that are eliminated in order to consolidate the business codes						
f. g. h.	the sales and revenues that are eliminated in order to consolidate the						
f. g. h.	the sales and revenues that are eliminated in order to consolidate the						

SECTION 2

R&D Paid For by Your Company

Who should answer this section?

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

What does this section cover?

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

2-1	What was the worldwide R&D expense (both direct and indirect) for your company in 2020?							
	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

continue with Section 3 on page 19.

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

	not considered material for your company's financial statements.				
2-2	Does the amount reported in Question 2-1 include any of the follow	ing	costs?		
	a. Collaborative R&D that was reimbursed by business partners, 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 (such as product support provided by R&D employees)		Yes		No
	e. Bid and proposal costs		Yes		No
	f. Expense your company claimed resulting from the acquisition of another company with unfinished R&D projects (in-process R&D)		Yes		No
	g. Phase IV clinical trials		Yes		No
2-3	If you answered "Yes" to any of the costs in Question 2-2, what was the amount of these costs that were included in your response to Question 2-1?	Mil.		Thou	
2-4	Subtract Question 2-3 from Question 2-1 and enter the result here. This is the total R&D paid for by your company in 2020. \$\frac{\\$\\$\}\\$}	Mil.		Thou	
	Is the amount entered in Question 2-4: \$0 → Skip to Section 3 on page 19.				
	Less than \$1 Million → Stop Skip to Section 2 Worksheet on page 18	and	d then		

Indir	rect 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	R&D paid for by your company													
2-6	Of the amount reported in Question 2-4, what were the costs for each business code listed or amended in Question 1-11?													
		plicable to more than one business code all opportion to operating revenues is acceptable unless appropriate.												
	Business code		\$Bil.	Mil.	Thou.									
	a													
	b													
	с.													
	d													
	е.													
	f. 0000													
	g													
	h.													
	i. Total (equals Que	estion 2-4)												
2-7	Of the amount repo	orted in Question 2-4, what costs were lowing locations?	incurred	by your										
	a. Domestic United S R&D performed b	States (50 states and D.C.) [Include y domestic operations that is paid sidiaries]	\$Bil.	Mil.	Thou.									
	performed by fore	s (also, Puerto Rico) [Include R&D eign subsidiaries that is paid for ations]												
	c. Total (equals Que	estion 2-4)												

2-	How much of the (1) domestic, (2) foreign, and (3) worldwide R&D paid for by your company in 2020 was for each of the following types of costs?
	Indirect costs that are allocated to R&D should be reported in the "All other costs" line only if no other category is applicable. Refer to the question instructions for specific examples.
a.	(1) Comestic Foreign Worldwide Salaries, wages, and fringe benefits (2) Salaries (2) Foreign Worldwide Salaries (2) Worldwide Mil. Thou.
).	Stock-based compensation
	00 000 000 00 000 000 00 000 00
) .	Leased employees and temporary staffing, including on-site consultants, working on R&D
	00 000 000 00 000 000 00 000 00
ı.	Expensed equipment (not capitalized)
	Materials and supplies
	Leased facilities and equipment
J.	Depreciation and amortization on property, plant, equipment, and intangible assets
۱.	Royalties and licensing fees (including payments made to others for the use of patents and other forms of intellect property used in your company's R&D)
	Collaborative R&D payments (include joint development agreements)
	Contract R&D (include payments to your company's foreign parent for R&D)
	00 000 000 00 000 00 00 00
ζ.	Other purchased services
	00 000 000 000 000 00 000
	Question continues on next page

2-8 (Continued)					
(1) Domes	stic	¢D:I	(2) Foreign	ΦD:I	(3) Worldwide
\$Bil. Mil. I. All other costs (inclu	Thou.		Mil. Thou.	<u>\$Bil.</u> d with your c	Mil. Thou.
m. Total					
Total equals Ques	tion 2-7. line a	Total equals	Question 2-7, line b	Tota	I equals Question 2-4
_					
	erformed by o		and enter the res	ult here.	
(1) Domes			(2) Foreign		(3) Worldwide
\$Bil. Mil.	Thou.	\$Bil.	Mil. Thou.	\$Bil.	Mil. Thou.
_					
	from 2-8, line i performed by y		column and ente	r the resul	t here.
(1) Domes		<u></u>	(2) Foreign		(3) Worldwide
\$Bil. Mil.	Thou.	\$Bil.	Mil. Thou.	\$Bil.	Mil. Thou.
					AD was performed y Question Guidance at
https://www.censu	s.gov/programs-surv	veys/brds/inform	ation/brdshelp.html#q2	<u>-11</u> .	•
\$6	Bil. Mil.	Thou.		\$Bil.	Mil. Thou.
Canada			Finland	<u> </u>	
			_		
Puerto Rico			France		
Europe \$E	Bil. Mil.	Thou.	Germany		
Larope		Thou.			
Austria			Hungary		
Dolaium			lualand		
Belgium			Ireland		
Czech Rep			ltaly		
Denmark			Luxembourg	. 00	
	Qı				

Netherlands	2-1	1 (Continue	d)						
Norway			\$Bil.	Mil.	Thou.		\$Bil.	Mil.	Thou.
Poland	Net	herlands				Hong Kong			
Spain	Nor	way				India			
Spain. Malaysia New Zealand N	Pola	and				Indonesia			
Switzerland	Rus	sia				Japan			
Singapore	Spa	in				Malaysia			
Turkey	Swe	eden				New Zealand			
United Kingdom	Swi	tzerland				Singapore			
Cother Europe Latin America/ Other Western Hemisphere Argentina Brazil Chile Mexico Asia and Pacific Asia and Pacific Australia Thailand Other Asia/ Pacific Mil. Thou. Middle East Other Middle East Africa South Africa Other Africa Other Africa Other Africa Total (equals Question 2-10, column 2)	Tur	key				South Korea			
Europe Latin America/ Other Western Hemisphere Argentina Brazil Chile Mexico Other Latin America/OWH Asia and Pacific \$Bil. Mil. Thou. Middle East \$Bil. Mil. Thou. Other Middle East Other Middle East Other Africa South Africa Other Africa Other Africa Other Africa Total (equals Question 2-10, column 2)						Taiwan			
Latin America/Other Western Hemisphere \$Bil. Mil. Thou. Argentina. Middle East \$Bil. Mil. Thou. Brazil Other Middle East SBil. Mil. Thou. Chile Africa \$Bil. Mil. Thou. Other Latin America/OWH South Africa Other Africa Other Africa Total (equals Question 2-10, column 2). Australia Total (equals Question 2-10, column 2). Other Africa Total (equals Question 2-10, column 2).						Thailand			
Other Western Hemisphere \$Bil. Mil. Thou. Argentina. Israel. Israel. Other Middle East \$Bil. Mil. Thou. Chile. Other Middle East. South Africa. \$Bil. Mil. Thou. Other Latin America/OWH. South Africa. Other Africa. Total (equals Question 2-10, column 2). Total (equals Question 2-10, column 2).		45 A							
Argentina Brazil Chile Mexico Other Latin America/OWH Asia and Pacific Australia South Africa Other Africa	Ot	her Western	\$Bil.	Mil.	Thou.	r dome			
Chile	Arg	entina				Middle East	\$Bil.	Mil.	Thou.
Chile	Bra	zil				Israel			
Mexico									
Mexico	Chil	e							
America/OWH Asia and Pacific Australia	Mex	кісо				Africa	\$Bil.	Mil.	Thou.
Asia and Pacific SBil. Mil. Thou. Total (equals Question 2-10, column 2)						South Africa			
Australia						Other Africa			
			\$Bil.	Mil.	Thou.	Question 2-10,			
Cililla						2,			
	Chii	ld							

2-12 How much of the amount reported in Question 2-10, column 1, was performed in each state (including D.C.) in 2020?										
	\$Bil.	Mil.	Thou.	ı	\$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	uestion conti	nues on next page						

2-12 (Continued		N.4:1	7.		ΦD'I	B 4:1	T1
Pennsylvania	\$Bil.	Mil.	Thou.	Vermont	\$Bil.	Mil.	Thou.
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 column 1, Question 2	was fro	amount re m the loca	ported in Q	tuestion 2-10, fied in	\$Bil.	Mil.	Thou.

Address 2			
City		State	ZIP
	amount reported in Question 2-10,	\$Bil.	Mil. T
column 1, was from Question 2-15?	m the location identified in		
			ur company
Business code			Mil. T
			Mil. 1
a. Business code			Mil. 1
			Mil. 1
a			Mil. 1
a			Mil. 1
a			Mil. 7
a			Mil. T
a			Mil. T
a b c			
a			
a			
a			

R&D) transactions	between	legal en	ntities und	er comn	non owr	ership			
2-18	How much of th 2-10, column 1,							stion		
	 Include: Costs for R&D p for a foreign sul Inter-company t foreign subsidia arrangements Exclude: Payments in except 	osidiary ransactions pa ries for transfe	id to the Uer pricing R	United States fr o R&D cost sharing	om g	\$Bil.	Mil.	Thou.		
2-19	2-19 How much of the foreign R&D performed by your company reported in Question 2-10, column 2, was paid for by your company's domestic operations?									
	 Include: Costs for R&D p subsidiaries und Inter-company t foreign subsidia arrangements 	ler contract for ransactions pa	r your com iid from th	pany's U.S. ope e United States	to	\$Bil.	Mil.	Thou.		
	Exclude: • Payments in exc	cess of the cos	t of R&D p	erformed (profi	t or fees)					
Proj	ected R&D for What are your c		roiected	2021 costs t	for (1) do	mestic. (2	e) foreign. a	nd		
	(3) worldwide R	&D paid for	by your	company?						
	NOTE: These amo Question 2-8, lin		: 2021 pro	gections for ti	ie amount	s reported				
	(1) Domestic \$Bil. Mil.	Thou.	\$Bil.	(2) Foreign Mil.	Thou.	\$Bil.	(3) Worldwide Mil.	Thou.		
_	2-21 How much of the amount reported in Question 2-20, column 1, is for projected contract R&D services and projected payments to business partners for collaborative R&D? Domestic \$Bil. Mil. Thou. NOTE: This amount is the 2021 projection for the amount reported in Question 2-9, column 1.									
2-21	is for projected to business part	contract Re tners for co int is the 202	llaborativ 21 project	ve R&D?				Thou.		
2-21	is for projected to business part	contract Re tners for co int is the 202	llaborativ 21 project	ve R&D?				Thou.		
2-21	is for projected to business part	contract Re tners for co int is the 202	llaborativ 21 project	ve R&D?				Thou.		
2-21	is for projected to business part	contract Re tners for co int is the 202	llaborativ 21 project	ve R&D?				Thou.		
2-21	is for projected to business part	contract Re tners for co int is the 202	llaborativ 21 project	ve R&D?				Thou.		

SECTION 2

2-22 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 Ext	tension							

	SECTION 2 WORKSHEET Complete if amount reported in Question 2-4 is less tha	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? a. Domestic United States (50 states and D.C.) [Include R&D performed by domestic operations that is paid for by foreign subsidiaries]. b. All other countries (also, Puerto Rico) [Include R&D performed by foreign subsidiaries that is paid for by domestic operations]	\$Mil.	Thou.
2	How much of the amount reported in Question 1, line a, was for ear following types of costs? 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)	\$Mil.	Thou.
3	e. All other costs (including administrative and overhead costs clearly associated with your company's R&D)		Thou.
4	Of the domestic R&D paid for and performed by your company reports 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. b. Applied research activities aimed at solving a specific problem or meeting a specific commercial objective. c. 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.	\$Mil.	Thou.

SECTION 3

Costs Paid For by Others

Who should answer this section?

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

What does this section cover?

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

3-1	th	What were your company's <u>worldwide costs</u> (both direct and indirect) in 2020 for the following that were funded, paid for, or reimbursed by others not owned by your company? Exclude:									
	•	Costs that were paid for by your company, such as those reported in 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									
		 Exclude: Costs for projects that have achieved technical feasibility, such as low-rate initial production. Additional guidance is available online at https://www.census.gov/programs-surveys/brds/information.html 									
	e.	Medical clinical trial Phase I-III services provided to others not owned by your company (include pass-through costs)									
	f.	Medical R&D services, other than clinical trials, provided to others not owned by your company									
	g.	Nondefense custom software development and/or computer systems designed for others not owned by your company									
		 Exclude: Software development that does not depend on a scientific or technological advance, such as adding functionality to existing application programs, debugging systems, and adapting existing software 									
	h.	Prototype development, production, and testing for customer's products prior to their introduction to the market (excluding defense-related prototyping reported in line d)									
	i.	All other R&D services provided to the Federal Government or to others not owned by your company									
	j.	Total									

3-1	(Continued)									
	The amount entered in Question 3-1, line j is the total R&D paid for by others in 2020. Is this amount:									
	\$0 → stop If Question 2-4 was also \$0, then you have completed this survey,									
	otherwise skip to Section 4 on page 33.									
	Less than \$1 Million → Stop Skip to Section 3 Worksheet on page 31 and then continue with Section 4 on page 33.									
	\$1 Million or greater → Co	ontinue w	ith Questi	on 3-2.						
R&D	paid for by others									
3-2	Of the amount reported in 0 by your company in the following			what costs						
	by your company in the for	lowing loc	ations		\$Bil.	Mil.	Thou.			
	a. Domestic United States (50	states and	D.C.)							
	b. All other countries (also, Pu	uerto Rico)								
	T . ! / . . 0 . ii . 0 . 1	/								
	c. Total (equals Question 3-1,	, line J)								
3-3	How much of the (1) domes in 2020 was for each of the				ride R&D	paid for by	others			
	Indirect costs that are allocat if no other category is applicable						ly			
	(1) Domestic	AD	(2) Foreign	-	AD'I	(3) Worldwide	-			
	<u>Bil. </u>	<u>\$Bil.</u> s	Mil.	<u>Thou.</u>	\$Bil.	Mil.	<u>Thou.</u>			
b. Sto	ck-based compensation									
c. Lea	sed employees and temporary	staffing, inc	cluding on-	site consulta	ants, work	ing on R&D				
d. Exp	ensed equipment (not capitalize	ed)								
e Mat	erials and supplies									
O. Widt										
			ntinues on I							

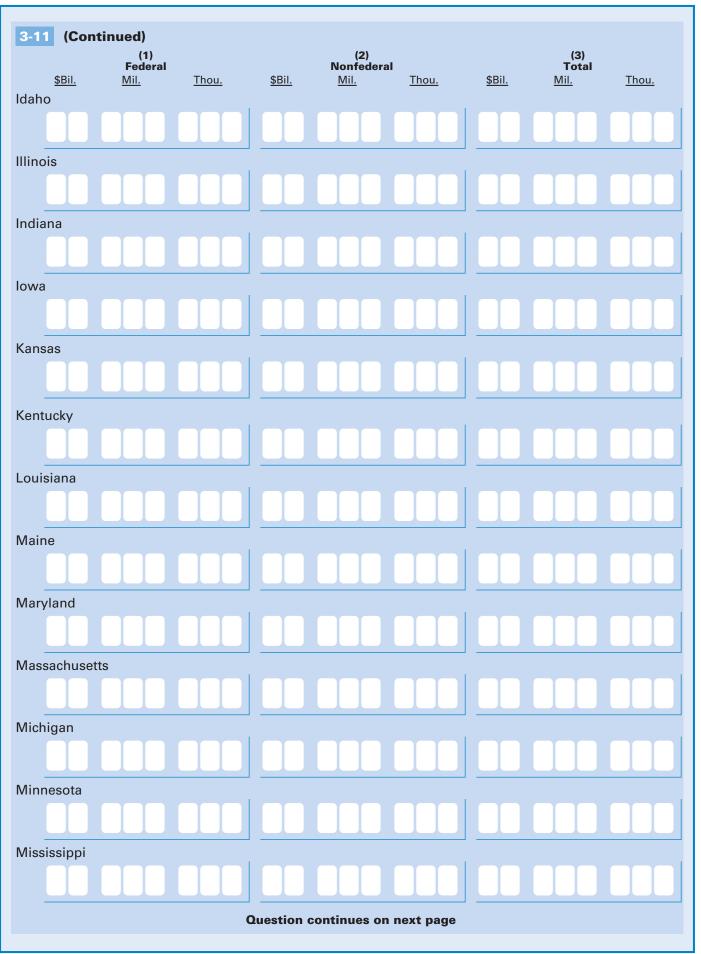
\$Bil.	tinued) (1) Domestic Mil. Thou. cilities and equipment	\$Bil.	(2) Foreign <u>Mil.</u>	Thou.	\$Bil.	(3) Worldwide <u>Mil.</u> <u>Thou.</u>
g. Depreciati	on and amortization on	property, p	plant, equipm	ent, and in	tangible a	assets
h. Royalties	and licensing fees (include	ding payments	s made to others	for the use o	f patents an	d other forms of intellectual
property use	ed in your company's R&D)					
i. Collabora	tive R&D payments (incl	ude joint devel	lopment agreem	ents)		
j. Contract F	R&D (include payments to	your compan	ny's foreign par	ent for R&D)		
k. Other pur	chased services					
I. All other of	costs (including administration	ve and overhe	ad costs clearly	associated	with your o	company's R&D)
m. Total						
Total ed	quals Question 3-2, line a	Total equ	uals Question	3-2, line b	Total e	quals Question 3-1, line j
	3-3, lines i and j for e is R&D performed by (1) Domestic					ugh R&D costs). (3) Worldwide
\$Bil.	Mil. Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil. Thou.
	ract 3-4 from 3-3, line is <u>R&D performed by</u>		pany that w			<u>ers</u> .
\$Bil.	(1) Domestic Mil. Thou.	\$Bil.	(2) Foreign Mil.	Thou.	\$Bil.	(3) Worldwide Mil. Thou.

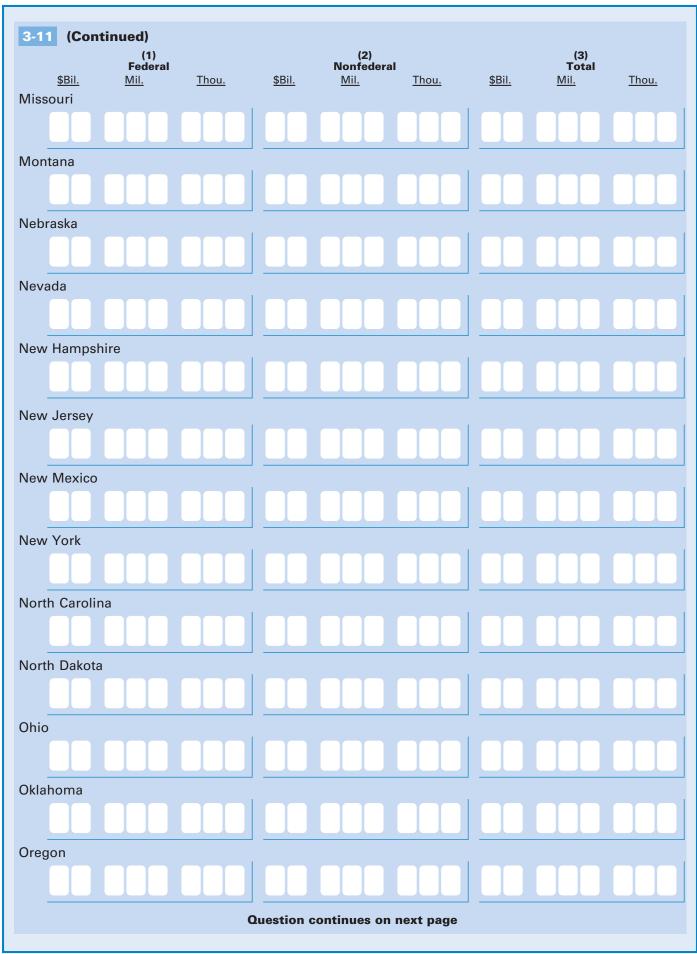
	\$Bil.	Mil.	Thou.		\$Bil.	Mil.	Thou.
Canada				Switzerland			
Puerto Rico				Turkey			
Europe	\$Bil.	Mil.	Thou.	United			
				Kingdom			
Austria				Other Europe			
Belgium				Latin America/ Other Western Hemisphere	\$Bil.	Mil.	Thou.
Czech Rep				Argentina			
Denmark				, a gomenia			
inland				Brazil			
-iniand				Chile			
rance				Mexico			
Germany				Other Latin			
				America/OWH			
Hungary				Asia and Pacific	\$Bil.	Mil.	Thou.
reland				Australia			
taly				China			
_uxembourg				Hong Kong			
Netherlands				India			
Norway				Indonesia			
Poland				Japan			
Russia				Malaysia			
Spain				New Zealand			
эринн							

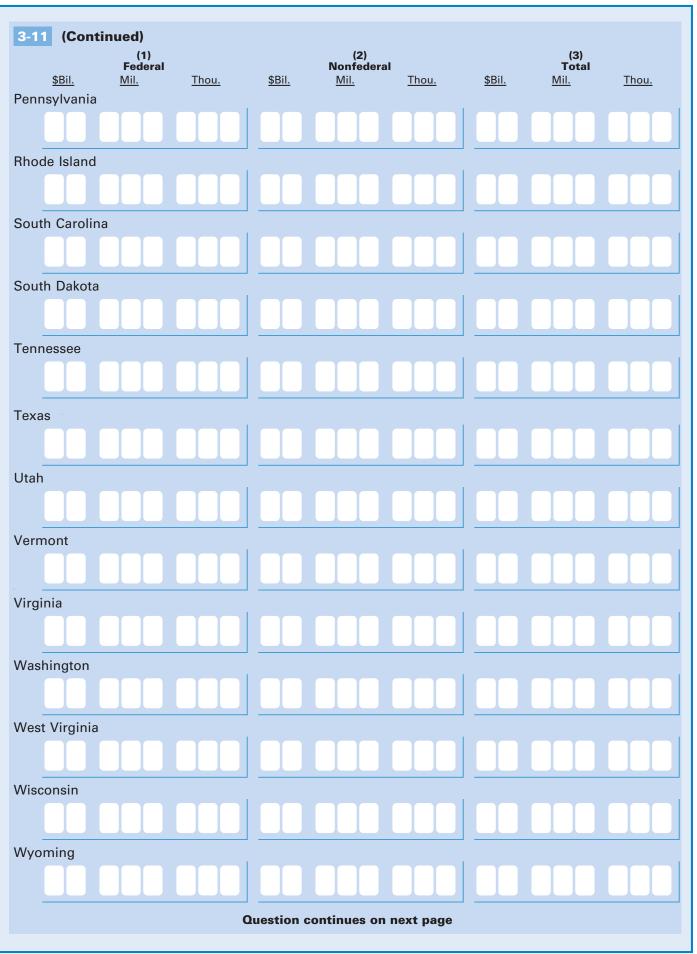
3-6 (Continue	d)						
	\$Bil.	Mil.	Thou.	Africa	\$Bil.	Mil.	Thou.
South Korea				South Africa			
Taiwan				Other Africa			
Thailand				Total (equals Question 3-5, column 2)			
Other Asia/ Pacific				COIGITIT 2)			
Middle East	\$Bil.	Mil.	Thou.				
Israel							
Other Middle East							
	applicable n proporti	e to more the		ess code allocate on acceptable unless sor			on
Busine	ess code	l I			\$Bil.	Mil.	Thou.
a							
b. 0							
c.							
d							
e							
f.							
g.							
h.							
i. Total (e	equals Qu	estion 3-5,	column 1)				

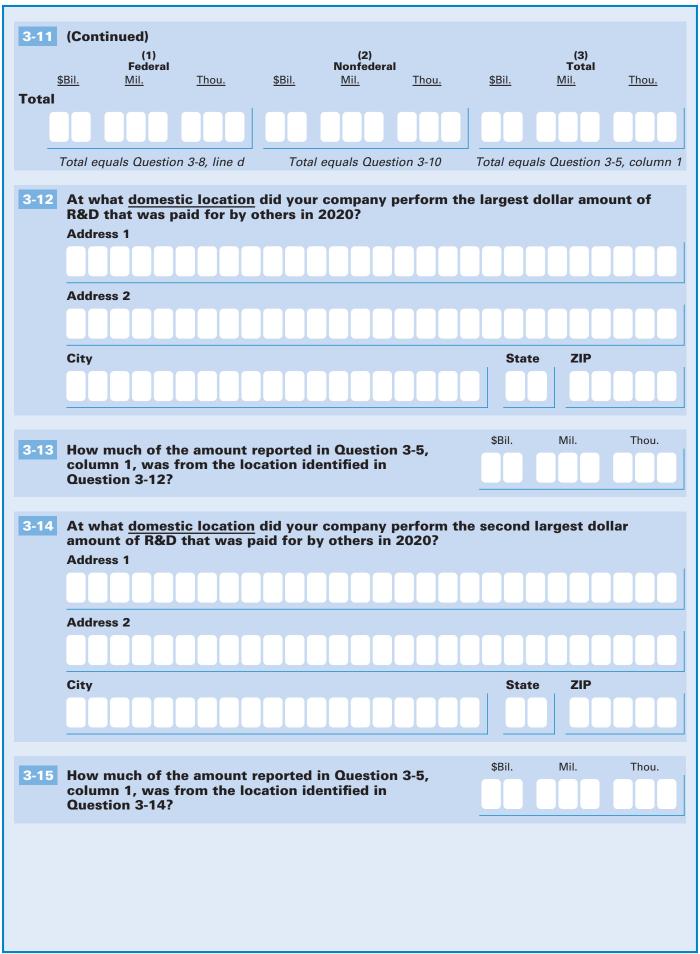
	If your company is a subcontractor or subgrantee, report the or	iginal sou	rce of fund	ls.
	Example: Company Sub Inc. performs custom software development to a subcontractor on a contract with the U.S. Dept. of Defense. Even thou for the defense company, it reports the cost of this development in line was the original source of funds.	ugh Sub Ir	c. is working	g directly
		\$Bil.	Mil.	Thou.
á	a. Other companies located <u>inside</u> the United States			
ı	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			
1	f. Foreign government agencies or laboratories			
(g. Universities, colleges, and academic researchers (including principal investigators) located <u>inside</u> the United States			
ı	n. Universities and colleges located outside the United States			
i	. All other organizations inside the United States			
j	. All other organizations outside the United States			
ı	k. Total (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 your company that was paid for by other companies.	\$Bil.	Mil.	Thou.
- 6	Subtract Question 3-8, line d, from Question 3-8, line k, and enter the result here. This is the domestic R&D	\$Bil.	Mil.	Thou.
	performed by your company that was paid for by nonfederal sources.			

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										
	(1) Federal		, 0, 00iuii	(2) Nonfedera	al		(3) Total			
\$Bil. Alabama	Mil.	<u>Thou.</u>	<u>\$Bil.</u>	<u>Mil.</u>	<u>Thou.</u>	\$Bil.	<u>Mil.</u>	<u>Thou.</u>		
Alaska										
Arizona										
Arkansas										
California										
Colorado										
Connecticut										
Delaware										
District of Co	lumbia									
Florida						l — —				
Georgia										
Hawaii										
		0	Question co	ontinues on	next page					









R&D performed by others			
3-16 Of the domestic R&D performed by others reported	\$Bil.	Mil.	Thou.
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 2021			
3-17 What are your company's projected 2021 costs for R&D that will be paid for by others?	\$Bil.	Mil.	Thou.
NOTE: This amount is the 2021 projection for what is reported in Question 3-1, line j.			
3-18 How much of the projected costs in 2021 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 2021 projection for what is reported in Question 3-5, column 1.			
3-19 How much of the projected costs in 2021 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 2021 projection for what is			
reported in Question 3-8, line d.			
3-20 Who was primarily responsible for completing this sectio Same person mentioned in Question 1-7			
Another person → Please provide the following inform	ation.		
Name			
Telephone			
Title Area code Number		Ex	tension

Co	SECTION 3 WORKSHEET omplete if amount reported in Question 3-1, line j is less	than \$1 N	Million
1	Of the total R&D paid for by others reported in Question 3-1, line were incurred in the following locations?	j, what cos	ts
	a. Domestic United States (50 states and D.C.)	\$Mil.	Thou.
	b. All other countries (also, Puerto Rico)		
	c. Total		
2	How much of the amount reported in Question 1, line a, was for e following types of costs?	ach of the	
		\$Mil.	Thou.
	a. Salaries, wages, and fringe benefits		
	b. Depreciation and amortization on property, plant, equipment, and intangible assets		
	c. Collaborative R&D payments (include joint development agreements)		
	d. Contract R&D (include payments to your company's foreign parent for R&D)		
	e. All other costs (including administrative and overhead costs clearly associated with your company's R&D)		
	f. 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 was paid for by others in 2020.	\$Mil.	Thou.

l I	your company is a subcontractor or subgrantee, report the original sou	rce of fund	s.
a	xample: Company Sub Inc. performs custom software development for a large subcontractor on a contract with the U.S. Dept. of Defense. Even though Sub In or the defense company, it reports the cost of this development in line d because the original source of funds.	c. is working	directly
		\$Mil.	Tho
a.	Other companies located <u>inside</u> the United States		
b.	Your company's foreign parent (if you are owned by a foreign parent)		
c.	Other companies located <u>outside</u> the United States		
d.	U.S. federal government agencies or laboratories		
e.	U.S. state and local government agencies or laboratories		
f.	Foreign government agencies or laboratories		
g.	Universities, colleges, and academic researchers (including principal investigators) located <u>inside</u> the United States		
h.	Universities and colleges located <u>outside</u> the United States		
i.	All other organizations <u>inside</u> the United States		
j.	All other organizations outside the United States		
k.	Total (equals Question 3)		
	f the domestic R&D performed by your company that was paid for sported in Question 3, how much was for the following categories		rs
	Basic research activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses	\$Mil.	Tho
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		

SECTION 4 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. \$Bil. Mil. Thou. 4-1 What was the amount of your company's capital expenditures in the domestic United States in 2020? 4-2 How much of the amount reported in Question 4-1 was for R&D operations? \$Bil. Mil. Thou. Companies should allocate capital expenditures that benefit both R&D operations and other company operations on a reasonable basis. 4-3 How much of the amount reported in Question 4-2 was for the following? 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 Yes No company (including a foreign parent)?.....

4-5	Who was primarily responsible for completing this section?
	☐ Same person mentioned in Question 1-7
	Another person → Please provide the following information:
	Name
	Telephone
	Title Area code Number Extension

SECTION 5

Management and Strategy of R&D

Who	should	answer	this s	ection?
	011001101			

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 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 2020, 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 2020, Company A reports this R&D in this question.



Thou.

Thou.

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

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

\$Bil.	Mil.	Thou.

Mil.

\$Bil.

\$Bil.

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

Research planned, systematic pursuit of new knowledge or understanding					

•					

- c. **Total** (equals Question 5-2).....
- _____

Mil.

If you reported any research in Question 5-3, line a, how much of that research was for the following categories?

Applied research activities aimed at solving a specific problem or meeting a specific commercial objective						

		7	Υ	

	hnology focus of domestic R&D paid for and perfor		
NOTE 5-5	E: You may report the same R&D in multiple areas for Quest What percentage of the amount reported in Question 5-2 v		
	software products or software embedded in other project		<u>s</u> ?
5-6	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.		%
5-7	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).		%
5-8	What percentage of the amount reported in Question 5-2 artificial 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	<u></u> %
Cha	racteristics of foreign R&D paid for and performe	ed by your	company
5-9	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.
5-10	How much of the foreign R&D paid for and performed by your company reported in Question 5-9 was for the following categories?	\$Bil.	Mil. Thou.
	a. Research planned, systematic pursuit of new knowledge or understanding		
	b. Development systematic work, drawing on research and practical experience and resulting in additional knowledge, which is directed to producing new products or processes or to improving existing products or processes.		
	c. Total (equals Question 5-9)		

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. Applied research activities aimed at solving a specific problem or meeting a specific commercial objective b. Basic research activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses 						
c. Total (equals Question 5-12, line a)						

Technology focus of domestic R&D performed by your company that was paid for by others NOTE: You may report the same R&D in multiple areas for Questions 5-14 to 5-17. What percentage of the amount reported in Question 5-11 was for % software products or software embedded in other projects or products? 5-15 What percentage of the amount reported in Question 5-11 was for biotechnology? For list-based definition see Question by Question Guidance at https://www.census.gov/programs-surveys/brds/information/brdshelp.html#q5-15 Biotechnology The application of science and technology to living organisms, as well as parts, products and models thereof, to alter living or non-living materials % for the production of knowledge, goods and services. 5-16 What percentage of the amount reported in Question 5-11 was for nanotechnology? For list-based definition see Question by Question Guidance at https://www.census.gov/programs-surveys/brds/information/brdshelp.html#g5-16 Nanotechnology The application of science and technology to organisms, organic and inorganic materials, as well as parts, products, and models thereof, % at the nanometer-scale (but not exclusively below 1000 nanometers). 5-17 What percentage of the amount reported in Question 5-11 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#q5-17 Artificial Intelligence (AI) A branch of computer science and engineering devoted to making machines intelligent. Intelligence is that quality that enables an entity to % perceive, analyze, determine response, and act appropriately in its environment.

Domestic R&D performed by your company that was U.S. federal government	paid f	or by the	
5-18 Copy the amount from Question 3-8, line d. This is	\$Bil.	Mil.	Thou.
the domestic R&D performed by your company that was paid for by the U.S. federal government.			
5-19 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?	\$Bil.	Mil.	Thou.
a. Applied research activities aimed at solving a specific problem or meeting a specific commercial objective			
b. Basic research activities aimed at acquiring new knowledge or understanding without specific immediate commercial applications or uses			
c. 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 pro or products?			%
Characteristics of foreign R&D performed by your cofor by others	mpany	/ that was	paid
5-22 Copy the amount from Question 3-5, column 2. This is the foreign R&D performed by your company and paid	\$Bil.	Mil.	Thou.
for by others.			
5-23 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	esponsible for com	pleting this section	n?	
	entioned in Question 1			
Another person	→ Please provide the	e following inform	ation:	
Name				
Title		lephone ea code Number		Extension

SECTION 6

Human Resources

Who should answer this section?

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

What does this section cover?

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

	our company owned mo			
6-1	How many employees many were all other e	reported in Question 1- mployees?	-9 were <u>R&D employed</u>	es and how
	to R&D, such as researched to R&D groups. Exclude	e all employees who work on ers, R&D managers, technicia employees who provide only rity guards, and cafeteria wor	ns, clerical staff, and others indirect support to R&D, su	assigned
		(1) Domestic operations	(2) Foreign operations	(3) Total employees
	a. R&D employees	000000	000000	000000
	b. All other employees			
	c. Total employees			
		I	Total line equals Question 1	-9
6-2	How many of the emp	oloyees reported in Ques	·	
6-2	each state (including (1) R&D employees	oloyees reported in Ques	tion 6-1, column 1, we (1) R&D employees	
6-2	each state (including (1)	oloyees reported in Ques D.C.)? (2)	tion 6-1, column 1, we	ere employed in
6-2	each state (including (1) R&D employees	oloyees reported in Ques D.C.)? (2)	tion 6-1, column 1, we (1) R&D employees	ere employed in
6-2	(1) R&D employees Alabama	oloyees reported in Ques D.C.)? (2)	(1) R&D employees Colorado	ere employed in
6-2	(1) R&D employees Alabama	oloyees reported in Ques D.C.)? (2)	(1) R&D employees Colorado	ere employed in
6-2	(1) R&D employees Alabama Alaska	oloyees reported in Ques D.C.)? (2)	(1) R&D employees Colorado Connecticut Delaware	ere employed in
6-2	(1) R&D employees Alabama Alaska	oloyees reported in Ques D.C.)? (2)	(1) R&D employees Colorado Connecticut	ere employed in
6-2	each state (including (1) R&D employees Alabama Alaska Arizona	oloyees reported in Ques D.C.)? (2)	(1) R&D employees Colorado Connecticut Delaware	ere employed in

Question continues on next page

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

(Continued)	(2)	6 0	(0)
(1) R&D employees	(2) Total employees	(1) R&D employees	(2) Total employees
Oklahoma		Utah	
		000000	
Oregon		Vermont	
		000000	
Pennsylvania		Virginia	
Rhode Island		Washington	
	000000	000000	
South Carolina		West Virginia	
South Dakota		Wisconsin	
		000000	
Tennessee		Wyoming	
		000000	
Texas		Total	
		000000	000000
How many of the er each location (inclu	nployees reported in C ding Puerto Rico)?	Question 6-1, column 2, w	ere employed in
(1) R&D employees	(2) Total employees	(1) R&D employees	(2) Total employees
Canada	i otar employees	Czech Rep	i otar employees
Puerto Rico		Denmark	
		000000	
Europe		Finland	
Austria			
		France	
		1141100	
Polaium			
Belgium		000000	

(Continued) (1) R&D employees	(2) Total employees	(1) R&D employees	(2) Total employees
Germany	rotai empioyees	United Kingdom	rotai employees
Hungary		Other Europe	
Ireland		Latin America/Other W	lestern Hemisphere
		Argentina	
Italy			
		Brazil	
Luxembourg			
		Chile	
Netherlands			
		Mexico	
Norway			
		Other Latin America/O	WH
Poland			
Russia		Asia and Pacific Australia	
Tiussia		Additional	
Spain		China	
		China	
Sweden			
Sweden		Hong Kong	
Switzerland		India	
Turkey		Indonesia	
		000000	
	Question continue	o on novt none	

(Continued) (1) R&D employees	(2) Total employees	(1) R&D employees	(2) Total employees
Japan		Middle East	
		Israel	
Malaysia			
		Other Middle East	
New Zealand			
		Africa	
Singapore		South Africa	
0 11 16			
South Korea		Other Africa	
Taiwan		Total	
Thailand			
Other Asia/Pacific			
D employees			
How many of the Remployees and mal	e employees?	in Question 6-1, line a,	
	(1) Domestic Operation	(2) ns Foreign Operations	(3) Total R&D employee
a. Female R&D empl	oyees		
b. Male R&D employ			
b. Iviale N&D employ	ees		
c. Total R&D emplo	ovees		
o. 100m 110m 0111p11		otal line equals Question 6-1,	line a
		, , , , , , , , , , , , , , , , , , ,	

	December /including	? (1)	(2)	(3)
a.	Researchers (including R&D scientists, engineers, and their	Domestic Operations	Foreign Operations	Total R&D employee
b.	managers)			
C.	R&D support staff (clerical and other)	000000	000000	
d.	Total R&D employees			
		Total	line equals Question 6-1,	. line a
Н	ow many of the researc	hare rangeted in Quas	etion 6-5 line a had	the following
	vel of education?	(1)	(2)	(3)
		Domestic Operations	Foreign Operations	Total
	nD (excluding MD, D, and EdD)			
en	as the number of full-ting mployees, other full-time	ne equivalents (FTEs)	for R&D activity fo	
en en	as the number of full-tir	me equivalents (FTEs) e employees not work nployees	for R&D activity fo king solely on R&D,	r full-time R&D and part-time Number
en en	as the number of full-timents of substitution of the substitution	me equivalents (FTEs) e employees not work nployees time employees who w	for R&D activity fo king solely on R&D,	r full-time R&D and part-time Number
en en a.	as the number of full-time inployees, other full-time inployees? FTEs for full-time R&D en Count the number of full-	me equivalents (FTEs) e employees not work inployees time employees who we s worked only on R&D = 5	for R&D activity fo king solely on R&D, vork only on R&D	r full-time R&D and part-time Number
en en a.	as the number of full-time imployees, other full-time imployees? FTEs for full-time R&D en Count the number of full- Example: 50 full-time R&D employees	me equivalents (FTEs) e employees not work nployees time employees who w s worked only on R&D = 5 mployees not working s they work on R&D to d	for R&D activity fo king solely on R&D, work only on R&D	r full-time R&D and part-time Number
en en a.	ras the number of full-time ployees, other full-time ployees? FTEs for full-time R&D en Count the number of full-time Example: 50 full-time R&D employees FTEs for other full-time en Use the share of the time	me equivalents (FTEs) e employees not work inployees time employees who w s worked only on R&D = 5 imployees not working s they work on R&D to complete the com	for R&D activity fo king solely on R&D	r full-time R&D and part-time Number
en en a.	as the number of full-time mployees, other full-time mployees? FTEs for full-time R&D en Count the number of full- Example: 50 full-time R&D employees FTEs for other full-time en Use the share of the time number of FTEs	me equivalents (FTEs) e employees not work pulse employees who we s worked only on R&D = 5 pulse they work on R&D to contain the contain the contains the conta	for R&D activity fo king solely on R&D	r full-time R&D and part-time Number
en en a.	as the number of full-time mployees, other full-time mployees? FTEs for full-time R&D en Count the number of full- Example: 50 full-time R&D employees FTEs for other full-time en Use the share of the time number of FTEs	me equivalents (FTEs) e employees not work inployees time employees who w s worked only on R&D = 5 imployees not working s they work on R&D to o raged one-fourth of their t yees working on R&D ne week (such as 40 ho	for R&D activity fo king solely on R&D, ork only on R&D ork only on R&D ork only on R&D interpretation of the control of t	r full-time R&D and part-time Number
en en a.	ras the number of full-time ployees, other full-time ployees? FTEs for full-time R&D en Count the number of full-time R&D employees Example: 50 full-time R&D employees FTEs for other full-time en Use the share of the time number of FTEs	me equivalents (FTEs) e employees not work inployees time employees who we s worked only on R&D = 5 imployees not working s they work on R&D to contain the second one-fourth of their the second one working on R&D increased one working on R&D	for R&D activity fo king solely on R&D, ork only on R&D ork only on R&D ork only on R&D interpretation of the control of t	r full-time R&D and part-time Number

6-8	Of the domestic researce the number of full-time employees, other full-time employees?	equivalents (FTEs) for F	R&D activity for full	-time R&D and part-time
	a. FTEs for full-time resear Count the number of ful	chers Il-time employees who wo	ork only on R&D	Number
	Example: 50 full-time R&D scientists	s worked only on R&D = 50 l	FTEs	
		researchers not working s ne they work on R&D to co	alculate the	.00000
	Example: 60 full-time managers ave	eraged one-fourth of their tin	ne on R&D = 15 FTEs	
		rchers working on R&D ime week (such as 40 hou FTEs		
	Example: 20 part-time employees a	veraged 20 hours a week on	R&D activities = 10 FTE	s
	d. Total FTEs			n 6-5, line a, column 1.
6-9	How many of the domes were non-U.S. citizens e as H-1B or L-1?			
	Researchers employed un	der a temporary visa		
6-10	In addition to the R&D e leased employees and to in the occupations listed	emporary staff, includir		
	a. Researchers (including R&D scientists, engineers, and their managers)	(1) Domestic Operations	(2) Foreign Operations	(3) Total leased and temporary employees working on R&D
	b. R&D technicians and equivalent staff			000000
	c. R&D support staff (clerical and other)			
	d. Total leased and temporary employees working on R&D			

Same person mentioned in Question 1-7 ☐ Another person → Please provide the following information: Name Title Telephone Area code Number Extension
□ Same person mentioned in Question 1-7 □ Another person → Please provide the following information: Name Telephone
Another person → Please provide the following information: Name Telephone
Name Telephone
Telephone
Title Area code Number Extension
Title Area code Number Extension
Intle 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?

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.

Total patents and utility patents

7-1	How many total patents did your company <u>apply</u> for in 2020 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 2020 resulted in nonprovisional utility patent applications?	%
7-6	How many <u>utility patents</u> were <u>issued</u> to your company in 2020 by the USPTO?	Number

Utility patent sales and licensing to others		
7-7 How much revenue did your company receive in 2020 from the sale of utility patents?	Mil.	Thou.
7-8 How much revenue did your company receive in 2020 from utility patent licensing?	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 2020 to purchase utility patents?	Mil.	Thou.
7-11 How much did your company pay others in 2020 to license utility patents?	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?		□ No
7-13 Did your company perform the following activities in 2020?		
a. Transferred intellectual property (IP) to others not owned by your company through participation in technical assistance or "know how" agreements		□ No
b. Received IP from others not owned by your company through participation in technical assistance or "know how" agreements		□ No
c. Transferred IP to a spin-off or spin-out of your company		□ 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		□ No
f. Acquired any financial interest in another company in order to gain access to their IP		□ 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 thesubject matter claimed in one or more of the patents owned by each party		□ No
h. Allowed free use of patents or other IP owned by your company (for example, open source software)		□ No
i. Made use of open source patents or other freely available IP not owned by your company	□ Vaa	□ No

SECTION 7

Intelle	ctual property protection			
	uring 2020, how important to your company were the bllowing types of intellectual property protection?	Very important	Somewhat important	Not important
	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	;) <u></u>		
7-15 W	Tho was primarily responsible for completing this section	1?		
	Same person mentioned in Question 1-7			
	Another person → Please provide the following information	ation:		
Na	ame			
_	Telephone			
Ti	tle Area code Number		Exten	sion

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. Did your company file for the tax credit for increasing Yes No research activities (IRS Form 6765) in 2020?..... Did your company file for a State tax credit for research Yes Nο activities in 2020? 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

		I		
Business codes		Consumer Goods		
(used	in Sections 1, 2, and 3)	33333		
Aeros	pace and Defense	33430		
	Aircraft engine and engine parts manufacturing	31210 33200		
	Aircraft manufacturing Guided missiles, space vehicles, and parts	31100	Food manufacturing	
33044	manufacturing	33700		
33692	Military armored vehicle, tank, and tank	32300 32591	Printing and related support activities Soap, cleaning compound, and toilet	
	components manufacturing	32391	preparations manufacturing	
33452	Search, detection, navigation, guidance, aeronautical, and nautical system and	31990	Textile, apparel, and leather products	
	instruments manufacturing		_manufacturing	
33660		31220 33990	Tobacco manufacturing Miscellaneous manufacturing not listed	
33643	Other aircraft parts and auxiliary equipment manufacturing	33330	elsewhere (games, office supplies, slot machines, etc.)	
Auton	nobiles, Motorcycles, and Components		1.80***	
33620	Motor vehicle body and trailer manufacturing		y and Mining	
33630 33610	Motor vehicle parts manufacturing Motor vehicles manufacturing	33360	Engine, turbine, and power transmission equipment manufacturing	
33691	Motorcycle, bicycle, and parts manufacturing	21200		
33651	Railroad rolling stock manufacturing	33319		
33660	Ship and boat building	21100	equipment manufacturing	
33699	All other transportation equipment manufacturing	21100 32401	Oil and gas extraction Petroleum refineries	
		21300		
_	al Equipment		including oil and gas	
33311	manufacturing	Financ	ce, Insurance, and Real Estate	
33332		52200		
	control, and airflow control machinery manufacturing	52400 53100		
33312	Construction machinery manufacturing	52310	Securities, commodity contracts, and other	
33500	Electrical equipment, appliances, and	020.0	financial investments and related activities	
22260	components manufacturing		(including funds and trusts)	
33360	Engine, turbine, and power transmission equipment manufacturing	Health	20240	
33322	Industrial machinery manufacturing, except		Biotechnology-based pharmaceutical and	
00000	semiconductor machinery	02040	biological products (except diagnostics)	
33390	Metalworking and other general purpose machinery manufacturing	33451	Electromedical, electrotherapeutic, and	
33319	Mining, oil, and gas field machinery and	00000	irradiation apparatus manufacturing	
	equipment manufacturing	62200 32542		
33331	Photographic and photocopying equipment	62150	o o	
	manufacturing	33910		
	icals and Materials	62110 32541	Offices of physicians Pharmaceutical, medicinal, and botanical	
32402	Asphalt paving, roofing, and saturated	32341	products manufacturing	
32510	materials manufacturing Basic chemicals manufacturing	54173	Research and development services	
32790	Cement, concrete, lime, gypsum, and other	E447F	in biotechnology (except nanotechnology)	
00740	nonmetallic mineral product manufacturing	54175	Research and development services in nanotechnology	
32710 21200	Clay and glass products manufacturing Mining	54174	<u> </u>	
32592	Paint, adhesive, and other chemical		in physical, engineering, and life sciences	
	manufacturing	62199	(except nanotechnology and biotechnology) Other ambulatory health care services	
32200	Paper manufacturing	02133	(ambulance, dental, home health care)	
32530	Pesticide, fertilizer, and other agricultural chemical manufacturing			
32600	Plastics and rubber products manufacturing			
33100	Primary metal manufacturing			
32520	Resin, synthetic rubber, and artificial			
32591	synthetic fibers and filaments manufacturing Soap, cleaning compound, and toilet			
	preparations manufacturing			
32100	Wood products manufacturing			
32403	Other petroleum and coal products manufacturing, including motor oil,			
	hydraulic fluid, and charcoal			
	,			

Inforn	nation Technology - Goods and Services	Other	Services
33333	Digital cameras manufacturing	72000	Accommodation and food services
51801	Cloud computing applications and internet	56100	Administrative and support services
	based software services	71000	Arts, entertainment, and recreation
54150	Computer systems design and related services	23000	
33412	Computers and peripheral equipment	49200	Couriers, messengers, and express deliver
	manufacturing, including magnetic and		services
	optical media	53300	Lessors of nonfinancial intangible assets
51800	Data processing, hosting, and related services		(including patent licensing)
33500	Electrical equipment, appliances, and	55100	Management of companies and enterprise
	components manufacturing	42300	
45411	Electronic shopping and mail-order houses	42400	Merchant wholesalers, nondurable goods
33459	Measuring and control instruments	51200	Motion picture and sound recording
	manufacturing (not listed elsewhere)		(except Internet)
33422	Radio, television, and wireless	51110	Newspaper, periodical, book, and
	communication equipment manufacturing		directory publishers (except Internet)
33440	Semiconductor and other electronic	53200	
	components manufacturing	44000	Retail trade, except electronic shopping
33321	Semiconductor machinery manufacturing		and mail-order houses
51120	Software publishers (except Internet)	62400	
33421	Telephone apparatus manufacturing	21300	Support activities for mining,
	including routers, modems, and gateways		including oil and gas
42500		48000	
	agents and brokers (business to business)	49300	
33429		81000	
	manufacturing (except radio, television,		
	and wireless communication equipment)		
51910			
	Internet publishing, broadcasting,		
	and web search portals		
Profes	ssional, Scientific, and Technical Services		
54180	Advertising and related services		
	Architectural, engineering, and related services		
54150	Computer systems design and related services		
54111	Legal, accounting, tax preparation,		
•	bookkeeping and payroll services		
54160	Management, scientific, and		
	technical consulting services		
54190	Professional, scientific, and technical services		
	(not listed elsewhere)		
54173	Research and development services in		
	biotechnology (except nanotechnology)		
54175	Research and development services in		
	nanotechnology		
54174	Research and development services in		
01171	physical, engineering, and life sciences		
	(except nanotechnology and biotechnology)		
54172			
J-172	social sciences and humanities		
54140			
Talacc	ommunications and Utilities		
	Broadcasting (except Internet)		
	Satellite telecommunications		
	Utilities		
56200	Waste management and remediation services		
- 4 7 4 0	AAC al. 4 al. a a a a a a a a a a a a a a a a a a	1	

51720

51710 Wired telecommunications carriers

(except satellite)

Wireless telecommunications carriers

51790 Other telecommunications (not listed elsewhere)

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Approximately how long did it take to complete this survey?	Hours Minutes
Remarks (Please use this space below for any explanations that may be essential in reported data.)	understanding your
Thank You Your Response is Important	
Accurate and timely statistical information could not be produced without your co and goodwill. Thank you.	ontinued cooperation
We estimate this survey will take an average of 3.3 hours to complete, including the ti instructions, searching existing data sources, gathering and maintaining the data need and reviewing the collection of information. Send comments regarding this burden estapect of this collection of information, including suggestions for reducing this burder	ded, and completing timate or any other
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 0607-0912" as the subject.	Survey Comments