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

BRDI-1 (08-07-2014) D1

2014 BUSINESS R&D AND INNOVATION SURVEY

OMB No. xxxx-xxxx: Approval Expires xx/xx/xxxx

DUE DATE: Report electronically: econhelp.census.gov/brdis

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U.S. CENSUS BUREAU 1201 East 10th Street Jeffersonville, IN 47132-0001

For information or assistance:

- econhelp.census.gov/brdis
- Call 1-800-772-7851, option "5" (8 a.m.– 5 p.m. EST, M-F)
- Write to the address above. Include your 11-digit ID printed on the mailing label.

(Please correct any errors in this mailing address)

Your Response is Required by Law

Title 13, United States Code, requires businesses and other organizations that receive this questionnaire to answer the questions and return the report to the U.S. Census Bureau.

Respondents are not required to respond to any information collection unless it displays a valid approval number from the Office of Management and Budget (OMB). The OMB number appears at the top of this page.

Your Response is Confidential by Law

Title 13, United States Code, requires that your response be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. The law also provides that copies retained in your company's files are immune from legal process.

About the Business R&D and Innovation Survey

The Business R&D and Innovation Survey is a national survey that collects critical information about research and development (R&D) and innovation at businesses operating in the U.S. Policy makers and data users in industry and academia make use of this information for short- and long-term planning.

Better information about R&D and innovation in the U.S. business sector will help leaders make better decisions to strengthen American competitiveness.

Thank You - Your Response is Important

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

~ This survey is jointly conducted by the U.S. Census Bureau and the National Science Foundation ~



Table of Contents

Survey Overview and Table of Contents

The survey is divided into six sections. Each section asks questions about different aspects of R&D or innovation at your company. Due to the specialized nature of each section, it may be necessary to collaborate with colleagues in different departments to answer the questions. The sections are color coded and cover the following topical areas:

| Section 1: Company Information |
|---|
| Topics: company ownership, business(es), revenues, and innovation Requires: knowledge of the company's sales and revenues |
| |

Topics: R&D expenses and capital expenditures for R&D **Requires:** knowledge of your company's accounting concepts and access to financial records

Section 3: Financial Schedule B.....p.21

Topics: costs for work that was funded, paid for, or reimbursed by others **Requires:** knowledge of your company's financial records related to R&D activities

Topics: 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 5: Human Resources p.40

Topics: your company's employees, focusing on those who work on R&D activities **Requires:** familiarity with human resources (HR) concepts and access to HR records

Section 6: Intellectual Property and Technology Transfer p.4

Topics: intellectual property and technology transfer

Requires: knowledge of your company's general business strategy, patenting, and licensing

Changes from the 2013 survey

On the basis of extensive conversations with many of the 2013 survey respondents, the 2014 survey has been improved. Sections and questions have been modified to make the concepts presented easier to understand. For a list of specific changes, go to **econhelp.census.gov/brdis**.

Filing electronically

You may submit your survey online via a secure website. Online submission allows you to save the data on secure Census Bureau servers as you go, so you can save, exit, and resume later without losing any of your data. It also allows you to save a paper or electronic copy of your completed survey. To submit online, follow the instructions at econhelp.census.gov/brdis.

Electronic materials

Electronic versions of the questionnaire and related documents are available to print or share with others in your company via e-mail. They can be found at econhelp.census.gov/brdis.

You can:

- Print and download copies of the questionnaire in PDF format
- Download Excel worksheets for each section
- Get question-by-question instructions, definitions, and examples that provide clarification
- Get answers to frequently asked questions, including how the data will be used



What is Research and Development (R&D)?

R&D is planned, creative work aimed at discovering new knowledge or developing new or significantly improved goods and services. 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 use of research and practical experience to produce new or significantly improved goods, services, or processes (development).

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 2014, if possible, or for your company's fiscal year ending between April 2014 and March 2015.

Estimates are acceptable

Please report all items to the best of your ability.

To speak with a survey specialist, call 1-800-772-7851, option '1' for English, then option '5'.

Survey specialists are available 8 a.m. to 5 p.m. EST, M-F to help with any questions you may have.



| | | Company Information |
|-----|-----|--|
| 1-1 | Was | your company a majority-owned subsidiary of a foreign company in 2014? |
| | | Yes → Please provide the following information: |
| | | Name of parent company |
| | | |
| | | REPORTING INSTRUCTIONS FOR FOREIGN-OWNED COMPANIES: 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 → Skip to Question 1-3 |
| 1-2 | | another U.S. company other than a holding company own more than 50 percent ne voting interest in your company during 2014? |
| | | 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, 2014 and December 31, 2014, report only for the period January 1, 2014 to the date of purchase. If your company was purchased before April 1, 2014, complete Question 1-6 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 |
| | | |
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| 1-3 | Did your company own more than 50 percent of any company operations or subsidiaries outside the 50 United States and D.C. during 2014? | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|
| | ☐ Yes → Include data for these operations/subsidiaries in your survey responses | | | | | | | | |
| | □ No | | | | | | | | |
| | | | | | | | | | |
| 1-4 | Has your company ceased operations? | | | | | | | | |
| | | | | | | | | | |
| | (MM) (DD) (YYYY) | | | | | | | | |
| | Date your company ceased operations | | | | | | | | |
| | REPORTING INSTRUCTIONS: If your company ceased operations between April 1, 2014 and December 31, 2014, report only for the period January 1, 2014 to the date your company ceased operations. If your company ceased operations before April 1, 2014, complete Question 1-6 and return this form to the Census Bureau – you are not required to complete the rest of this survey. | | | | | | | | |
| | □ No | | | | | | | | |
| | | | | | | | | | |
| 1-5 | Did your company have discontinued operations in 2014? | | | | | | | | |
| | Yes → Include data for these operations in your survey responses | | | | | | | | |
| | □ No | | | | | | | | |
| | | | | | | | | | |
| 1-6 | Who is the survey coordinator? The survey coordinator is the person at your company responsible for gathering all requested information, ensuring instructions are followed, and submitting the completed survey. The survey coordinator may not be able to personally complete the entire survey and may need to request information from other knowledgeable resources concerning your company's R&D, accounting, human resources, and legal matters. Name | | | | | | | | |
| | Title | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | Telephone Area code Number Extension Area code Number | | | | | | | | |
| | E mail address | | | | | | | | |
| | E-mail address | | | | | | | | |
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| Busin | ess Codes | | |
|-------|------------------------------------|---------|---|
| | | | listed below reflect all applicable codes from the list on our company operated worldwide during 2014? |
| | | | be used to describe both business activities and R&D activities and codes used by other government surveys and reports. |
| | If no business co | | e printed below, please write in the codes from pages 46-47 pany. |
| | ☐ Yes → Contin | nue wit | th Question 1-8 |
| | | | hrough codes that are incorrect. As needed, enter additional scriptions from pages 46-47 in the spaces provided. |
| | Business code (see pages 46-47) | | Description |
| | | | |
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|------|--|--------------------|--------------------------------|---------------|-----------------------------------|---------|--|--|--|
| 1-8 | What was the amount of your company's worldwide sales and revenues during 2014? \$\text{SBII.} \text{Mil.} \text{Thou.} | | | | | | | | |
| | Include: | | | | MIII. | inou. | | | |
| | Sales and operating r | evenues from alsc | ontinued operations | | | | | | |
| | | | | | | | | | |
| 1-9 | How much of the am from domestic opera | | in Question 1-8 | was attributa | ble to or ori | ginated | | | |
| | Include:Sales and operating reincluding foreign substitution | | customers, | | | | | | |
| | Example: U.S. Manufactustomers around the w | | | \$Bil. | Mil. | Thou. | | | |
| | operations are located in of its sales in this question | side the United St | | | | | | | |
| | of its series in this question. | | | | | | | | |
| 1-10 | How much of the 20 | | | amounts wa | s for each b | usiness | | | |
| | code listed or amend (1) Worldwide sales | and operating | revenues report | | | | | | |
| | (2) Domestic sales a | | (1) | | (2) | | | | |
| | Business code | | ride sales and ing revenues | | Domestic sales operating rever | | | | |
| | (see page 6) | \$Bil. | Mil. Thou. | \$Bil. | Mil. | Thou. | | | |
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| | g. | | | | | | | | |
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| | h. | | | | | | | | |
| | Less eliminations – the sales and revenues that are eliminated in order to consolidate the | | | | | | | | |
| | business codes | | | | | | | | |
| | j. Total | | | | | | | | |
| | | Total equa | ls Question 1-8 | Tota | l equals Questi | on 1-9 | | | |

Product (good or service) innovation

A product innovation is the market introduction of a **new** or **significantly** improved good or service with respect to its capabilities, user friendliness, components, or sub-systems.

- Product innovations (new or improved) must be new to your company, but they do not need to be new to your market.
- Product innovations could have been originally developed by your company or by other companies.

| companies. | | | |
|---|-----------|--------|----|
| 1-11 During the three years 2012 to 2014, did your company introduce: | | | |
| New or significantly improved goods (Exclude the simple resale of new goods purchased from other companies and changes of a solely aesthetic nature)? | ☐ Yes | | No |
| b. New or significantly improved services? | Yes | | No |
| 1-12 If you answered "yes" to either 1-11, line a, or 1-11, line b, were an innovations during the three years 2012 to 2014: | y of your | produc | et |
| a. New to your market? | ☐ Yes | | No |
| Your company introduced a new or significantly improved good or service to your market before your competitors. (It may have been available in other markets.) | | | |
| b. New only to your company? | □ Yes | | No |
| Your company introduced a new or significantly improved good or service that was already available from your competitors in your market. | | | |
| 1-13 Using the definitions above, please give the percentage of your tot sales in 2014 from: | al | | |
| a. New or significantly improved goods and services introduced during 2012 to 2014 that were new to your market | | | % |
| b. New or significantly improved goods and services introduced during 2012 to 2014 that were new only to your company | | | % |
| c. Goods and services that were unchanged or only marginally modifi during 2012 to 2014 (include the resale of new goods or services purchased from other companies) | | | % |
| d. Total sales in 2014 | | 0 0 | % |



Process innovation

A process innovation is the implementation of a **new** or **significantly** improved production process, distribution method, or support activity for your goods or services.

- Process innovations must be new to your company, but they do not need to be new to your market.
- The innovation could have been originally developed by your company or by other companies.
- Exclude purely organizational innovations.

| 1-14 | D | uring the three years 2012 to 2014, did your company introduce: | | |
|------|----|---|-----|----|
| | a. | New or significantly improved methods of manufacturing or producing goods or services? | Yes | No |
| | b. | New or significantly improved logistics, delivery or distribution methods for your inputs, goods, or services? | Yes | No |
| | c. | New or significantly improved supporting activities for your processes, such as maintenance systems or operations for purchasing, accounting, or computing? | Yes | No |

Financial Schedule A

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 financial information about your company's R&D expenses and capital expenditures for R&D. 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.

| countri | es, states, specific location), and for parts of your company defi | ned by busin | iess c | ode. | , | |
|---------|---|--------------|--------|-------|------|----|
| 2-1 | What was the total worldwide R&D expense for your con | npany in 20 | 14? | | | |
| | 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 (FASB Statement No. 2, "Accounting for Research and Development Costs.") If your company is foreign-owned, refer to the instructions on page 4. Additional guidance, such as for privately owned | \$Bil. | Mil. | | Thou | |
| | companies, is available online at econhelp.census.gov/brdis. NOTE: Report your company's R&D expense even if the amount is not considered material for your company's financial statements. | | | | | |
| 2-2 | Does the amount reported in Question 2-1 include any o | f the follow | ing c | osts? | | |
| | a. Collaborative R&D that was reimbursed by business partner such as through cost-sharing agreements | | | Yes | | No |
| | b. R&D paid for by government or private foundation grants | | | Yes | | No |
| | c. Technical services not an integral part of an R&D project (su product support provided by R&D employees) | | | Yes | | No |
| | d. Bid and proposal costs | | | Yes | | No |
| | e. Expense your company claimed resulting from the acquisiti another company with unfinished R&D projects (in-process | | | Yes | | No |
| 2-3 | If you answered "Yes" to any of the costs in Question | \$Bil. | Mil. | | Thou | |
| | 2-2, what was the amount of these costs that was included in your response to Question 2-1? | | | | | |
| | | \$Bil. | 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 2014. | | | | | |
| 2.5 | Is the amount entered in Occasion 2.4 most on their reveal | | | | | |
| 2-5 | Is the amount entered in Question 2-4 greater than zero? ☐ Yes → Continue with Question 2-6 | | | | | |
| | No → Skip to Question 2-29 on page 19 | | | | | |

| R&D | paid for by your company | | | |
|-----|---|---------|-------------|-------|
| 2-6 | Of the amount reported in Question 2-4, what were the cocode listed or amended on page 6 of this form? | sts for | each busine | ess |
| | Allocate R&D that is applicable to more than one business code Allocation in proportion to operating revenues is acceptable unless sor basis is more appropriate. | | | |
| | Business code (see page 6) | \$Bil. | Mil. | Thou. |
| | a | | | |
| | b | | | |
| | c | | | |
| | d | | | |
| | e | | | |
| | f. 0000 | | | |
| | g | | | |
| | h | | | |
| | i. Total (equals Question 2-4) | | | |
| 2-7 | Of the amount reported in Question 2-4, what costs were company in the following locations? | incurre | d by your | |
| | a. Domestic United States (50 states and D.C.) [Include R&D performed by domestic operations that is paid for by foreign subsidiaries] | \$Bil. | 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 (equals Question 2-4) | | | |
| 2-8 | Copy the amount from Question 2-7, line a. This is the total domestic R&D paid for by your company in 2014. | \$Bil. | Mil. | Thou. |
| 2-9 | Copy the amount from Question 2-7, line b. This is the total foreign R&D paid for by your company in 2014. | \$Bil. | Mil. | Thou. |



| 2-1 | O How much of the (| | | | | | | or by |
|-------|-------------------------------|---------------|---------------|-----------------|------------|---------------|------------------------|----------|
| | (1) | | | (2) Foreign | | | (3) | |
| | Domestic \$Bil. Mil. | Thou. | \$Bil. | Foreign Mil. | Thou. | \$Bil. | otal worldwide Mil. | Thou. |
| a. S | alaries, wages, and fring | | _ | | | | _ | |
| | | | | | | | | |
| b. S | tock-based compensation | on _ | | | | | | |
| | | | | | | | | |
| c. T | emporary staffing, inclu | ding on-site | consultan | ts | | | | |
| | | | | | | | | |
| d. E | xpensed equipment | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| e. N | laterials and supplies | | | | | | | |
| | | | | | | | | |
| f. Le | eased facilities and equi | pment | | | | | | |
| | | | | | | | | |
| g. D | epreciation and amortiz | ation on R8 | kD property | y and equip | oment | | | |
| | | | | | | | | |
| h. P | ayments to business pa | rtners for co | ollaborative | R&D | | | | |
| | | | | | | | | |
| i. P | urchased R&D services | (if your comp | any is foreig | n-owned, inc | lude payme | nts to your f | oreign owner | for R&D) |
| | | | | | | | | |
| i. A | III other purchased servi | ces except I | R&D | | | | | |
| j. /. | | | | | | | | |
| kΔ | all other costs | | | | | | | |
| κ. Α | | | | | | | | |
| | | | | | | | | |
| I. T | otal | | | | | | | |
| | | | | | | | | |
| | Total equals Question | 2-8 | Total eq | uals Questio | n 2-9 | Total | equals Questic | on 2-4 |

| 2-11 Add 2-10, lines h and i for each column, and enter the result here. | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|
| This is <u>R&D performed by others</u> . (1) Domestic | (2) (3) Foreign Total worldwide | | | | | | | | | |
| \$Bil. Mil. Thou. \$Bil. | Mil. Thou. \$Bil. Mil. Thou. | | | | | | | | | |
| | | | | | | | | | | |
| 2-12 Subtract 2-11 from 2-10, line I, for each column and enter the result here. This is R&D performed by your company. | | | | | | | | | | |
| (1) Domestic | (2) (3) Foreign Total worldwide | | | | | | | | | |
| \$Bil. Mil. Thou. \$Bil. | Mil. Thou. \$Bil. Mil. Thou. | | | | | | | | | |
| 00 000 000 00 0 | | | | | | | | | | |
| 2-13 Copy the amount from Question 2-12, | column 2 \$Bil. Mil. Thou. | | | | | | | | | |
| This is the foreign R&D paid for and p | | | | | | | | | | |
| your company in 2014. | | | | | | | | | | |
| 2-14 Of the amount reported in Question 2 | 13, how much R&D was performed in the | | | | | | | | | |
| following locations? For full list of countries in | each region see Question by Question Guidance at econhelp.census.gov/brdis. | | | | | | | | | |
| \$Bil. Mil. Thou. | \$Bil. Mil. Thou. | | | | | | | | | |
| a. Canada | j. Italy | | | | | | | | | |
| b. Puerto Rico | k. Luxembourg | | | | | | | | | |
| Europe \$Bil. Mil. Thou. | | | | | | | | | | |
| a. Austria | I. Netherlands | | | | | | | | | |
| | m. Norway | | | | | | | | | |
| b. Belgium | | | | | | | | | | |
| | n. Poland | | | | | | | | | |
| c. Czech Rep | | | | | | | | | | |
| d. Denmark | o. Russia | | | | | | | | | |
| d. Delillark | p. Spain | | | | | | | | | |
| e. Finland | p. Spain. | | | | | | | | | |
| | q. Sweden | | | | | | | | | |
| f. France | | | | | | | | | | |
| | r. Switzerland | | | | | | | | | |
| g. Germany | | | | | | | | | | |
| h. Hungary | s. Turkey | | | | | | | | | |
| ii. Hallyary | t. United | | | | | | | | | |
| | | | | | | | | | | |
| i. Ireland | Kingdom | | | | | | | | | |

| 2-14 (Continued | d) \$Bil. | Mil. | Thou. | | \$Bil. | Mil. | Thou. |
|---|---------------------|-------------|-------------|-------------------------------------|--------|------|-------|
| u. Other Europe | фЫІ. | | Thou. | h. New Zealand | | | Thou. |
| Latin America/ Other Western Hemisphere | \$Bil. | Mil. | Thou. | i. Singapore | | | |
| a. Argentina | | | | j. South Korea | | | |
| b. Brazil | | | | k. Taiwan | | | |
| c. Chile | | | | I. Thailand | | | |
| d. Mexico | | | | m. Other Asia/ Pacific | | | |
| e. Other Latin America/OWH | | | | Middle East | \$Bil. | Mil. | Thou. |
| Asia and Pacific | \$Bil. | Mil. | Thou. | a. Israel | | | |
| a. Australia | | | | b. Other Middle East | | | |
| b. China | | | | Africa | \$Bil. | Mil. | Thou. |
| c. Hong Kong | | | | a. South Africa | | | |
| d. India | | | | b. Other Africa | | | |
| e. Indonesia | | | | Total (equals Question 2-13) | | | |
| f. Japan | | | | 240311011 2 10) | | | |
| g. Malaysia | | | | | | | |
| 2-15 Copy the a | amount | from Ques | stion 2-12 | column 1 | \$Bil. | Mil. | Thou. |
| This is the | domes | stic R&D pa | nid for and | performed | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

| 2-16 How much (including | | | eported in (| Question 2-15 was p | erform | ed in each | state |
|--------------------------|--------|------|--------------|---------------------|--------|------------|-------|
| | \$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 | | | |
| | | Qı | uestion cont | inues on next page | | | |

| 2-16 (Continued | d) | | | | | | |
|---|-----------|-------------|-----------|-------------------------------------|------------|-----------|--------|
| | \$Bil. | Mil. | Thou. | l | \$Bil. | Mil. | Thou. |
| Pennsylvania | | | | Vermont | | | |
| Rhode Island | | | | Virginia | | | |
| South Carolina | | | | Washington | | | |
| South Dakota | | | | West Virginia | | | |
| Tennessee | | | | Wisconsin | | | |
| Texas | | | | Wyoming | | | |
| Utah | | | | Total (equals Question 2-15) | | | |
| At what do R&D in 20 Address 1 Address 2 | omestic I | ocation die | d your co | mpany perform the | largest do | ollar amo | unt of |
| City | | | | | Ctata | ZIP | |
| City | | | | | State | | |
| | | | | Question 2-15 estion 2-17? | \$Bil. | Mil. | Thou. |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Address 1 | | | | | | | | |
|-----------------------------------|----------------------------|-----------|---------|------------------|--------|-------|-------------------|------|
| | | | | | | | | |
| Address 2 | | | | | | | | |
| | | | | | | | | |
| City | | | | | St | ate | ZIP | |
| | | | | | | | | |
| | | | | | | _ | | |
| Harry warrak of the | | | 0 | 2.45 | \$Bil. | | Mil. | Т |
| How much of the was from the loca | amount rep tion identif | fied in Q | uestion | on 2-15 2-19? | | | | |
| | | | | | Do | | (1) R&D pe | |
| Business code | | | | | | by yo | R&D pe ur comp | oany |
| Business code (see page 6) | I | | | | \$Bil. | by yo | R&D pe | oany |
| (see page 6) | ļ | | | | | by yo | R&D pe ur comp | oany |
| a. (see page 6) | | | | | | by yo | R&D pe ur comp | oany |
| a. (see page 6) | | | | | | by yo | R&D pe ur comp | oany |
| | | | | | | by yo | R&D pe ur comp | oany |
| a. (see page 6) b. C. | | | | | | by yo | R&D pe ur comp | oany |
| (see page 6) a. b. c. d. | | | | | | by yo | R&D pe ur comp | oany |
| (see page 6) a. b. c. d. e. | | | | | | by yo | R&D pe ur comp | oany |
| (see page 6) a. b. c. d. e. | | | | | | by yo | R&D pe ur comp | oany |
| ab. | | | | | | by yo | R&D pe ur comp | |
| (see page 6) a b c d f g | | | | | | by yo | R&D pe ur comp | oany |
| (see page 6) a. b. c. d. e. f. | | | | | | by yo | R&D pe ur comp | oany |

| R&D transactions between legal entities under comm | on owi | nership | |
|---|--------|---------|-------|
| 2-22 How much of the amount reported in Question 2-15 (dom paid for by your company's foreign subsidiaries through it | | | |
| Example: Company Y owns a subsidiary in France. In order to complete the development of a product in 2014, 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. |
| 2-23 How much of the amount reported in Question 2-13 (fore paid for by your company's domestic operations through | | | |
| Example: Company Z owns a subsidiary in France. In order to complete the development of a product in 2014, 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 | | | |
| 2-24 Copy the amount from Question 2-11, column 1. This is the domestic R&D paid for by your company in 2014 that was performed by others. | \$Bil. | Mil. | Thou. |
| 2-25 How much of the amount reported in Question 2-24, 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 | | | |
| | | | |
| c. Other companies located <u>outside</u> the United States | | | |
| c. Other companies located <u>outside</u> the United States d. U.S. federal government agencies or laboratories | | | |
| 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 | | | |
| c. Other companies located <u>outside</u> the United States | | | |



| Activities with academia | |
|--|---|
| 2-26 In addition to the amount reported in Question 2-24, did y gifts to universities or colleges in 2014 that were restricted | |
| Yes → Continue with Question 2-27 | |
| No → Skip to Question 2-28 | |
| | \$Bil. Mil. Thou. |
| 2-27 What was the amount of monetary gifts made by your company to universities or colleges in 2014 that were | \$BII. IVIII. THOU. |
| restricted to supporting R&D? | |
| Indirect R&D charges | |
| 2-28 How much of the amount reported in Question 2-4 | \$Bil. Mil. Thou. |
| was for R&D costs your company plans to recoup through indirect charges on U.S. federal government contracts (IR&D or independent R&D)? | |
| contracts (map of macpendent map): | |
| Projected R&D for 2015 | |
| 2-29 What are your company's projected 2015 costs for (1) doi | mestic. (2) foreign, and |
| | |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an | |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. | nounts |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic (2) Foreign | nounts (3) Total worldwide |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. | nounts |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic (2) Foreign | nounts (3) Total worldwide |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic (2) Foreign | (3) Total worldwide \$Bil. Mil. Thou. |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic SBil. Mil. Thou. SBil. Mil. Thou. 2-30 How much of the amount reported in Question 2-29, | (3) Total worldwide \$Bil. Mil. Thou. Domestic |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic SBil. Mil. Thou. SBil. Mil. Thou. Thou. 2-30 How much of the amount reported in Question 2-29, column 1, is for projected purchased R&D services and projected payments to business partners for | (3) Total worldwide \$Bil. Mil. Thou. |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic SBil. Mil. Thou. SBil. How much of the amount reported in Question 2-29, column 1, is for projected purchased R&D services | (3) Total worldwide \$Bil. Mil. Thou. Domestic |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic SBil. Mil. Thou. SBil. Mil. Thou. Thou. 2-30 How much of the amount reported in Question 2-29, column 1, is for projected purchased R&D services and projected payments to business partners for | (3) Total worldwide \$Bil. Mil. Thou. Domestic |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic SBil. Mil. Thou. SBil. Mil. Thou. Thou. 2-30 How much of the amount reported in Question 2-29, column 1, is for projected purchased R&D services and projected payments to business partners for | (3) Total worldwide \$Bil. Mil. Thou. Domestic |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic SBil. Mil. Thou. SBil. Mil. Thou. Thou. 2-30 How much of the amount reported in Question 2-29, column 1, is for projected purchased R&D services and projected payments to business partners for | (3) Total worldwide \$Bil. Mil. Thou. Domestic |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic SBil. Mil. Thou. SBil. Mil. Thou. Thou. 2-30 How much of the amount reported in Question 2-29, column 1, is for projected purchased R&D services and projected payments to business partners for | (3) Total worldwide \$Bil. Mil. Thou. Domestic |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic SBil. Mil. Thou. SBil. Mil. Thou. Thou. 2-30 How much of the amount reported in Question 2-29, column 1, is for projected purchased R&D services and projected payments to business partners for | (3) Total worldwide \$Bil. Mil. Thou. Domestic |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic SBil. Mil. Thou. SBil. Mil. Thou. Thou. 2-30 How much of the amount reported in Question 2-29, column 1, is for projected purchased R&D services and projected payments to business partners for | (3) Total worldwide \$Bil. Mil. Thou. Domestic |
| (3) total worldwide R&D paid for by your company? NOTE: These amounts are the 2015 projections for the an reported in Question 2-10, line I. (1) Domestic SBil. Mil. Thou. SBil. Mil. Thou. Thou. 2-30 How much of the amount reported in Question 2-29, column 1, is for projected purchased R&D services and projected payments to business partners for | (3) Total worldwide \$Bil. Mil. Thou. Domestic |

| Capital expenditures | | | |
|---|--------|------|-------|
| 2-31 What was the amount of your company's capital expenditures in the domestic United States in 2014? | \$Bil. | Mil. | Thou. |
| 2-32 How much of the amount reported in Question 2-31 was for R&D operations? | \$Bil. | Mil. | Thou. |
| 2-33 How much of the amount reported in Question 2-32 was for the following? | \$Bil. | Mil. | Thou. |
| a. Structures | | | |
| c. Capitalized software | | | |
| e. Total domestic capital expenditures for R&D (equals Question 2-32) | | | |
| 2-34 Is the information in this section reported for the 2014 call ☐ Yes ☐ No → Enter time period covered below: | YY) | ear? | |
| | | | |
| | | | |
| | | | |

Financial Schedule B

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 financial information about your company's costs for work that was funded, paid for, or reimbursed by others. This section requests information about these costs 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 | fo | hat were your company's <u>total worldwide costs</u> (both r the following that were funded, paid for, or reimbu our company? | | | | |
|-----|----|--|----|--------|------|-------|
| | • | xclude: Costs that were paid for by your company, such as those reported in Question 2-4 Payments in excess of the actual cost of the work performed (such as profit or fees) | | \$Bil. | Mil. | Thou. |
| | a. | R&D that was reimbursed by your company's foreign parent (if you are owned by a foreign parent) | | | | |
| | b. | Collaborative R&D that was reimbursed by business partners, such as through cost-sharing agreements | •• | | | |
| | c. | R&D paid for by government or private foundation grants | | | | |
| | d. | Defense RDT&E goods or services (including DOD 6.1 through 6.7 funding), provided as a prime or as a sub, to the government and/or government contractors | | | | |
| | e. | Medical nonclinical R&D services provided to others not owned by your company | | | | |
| | f. | Medical clinical trial Phase I-III services provided to others not owned by your company (include pass-through costs) | | | | |
| | 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, not included above, provided to the Federal Government or to others not owned by your company | | | | |
| | j. | Total | | | | |



| 3-2 | Copy the amount from Question 3-1, line j. This is the total R&D paid for by others in 2014. | \$Bil. | Mil. | Thou. |
|-----|---|--------------------|------------------------|-------|
| 3-3 | Is the amount entered in Question 3-2 greater than zero? ☐ Yes → Continue with Question 3-4 ☐ No → Skip to Section 4 on page 35 | | | |
| R&D | paid for by others | | | |
| 3-4 | Of the amount reported in Question 3-2, what costs were company in the following locations? | incurred \$Bil. | by your Mil. | Thou. |
| | a. Domestic United States (50 states and D.C.) | | | |
| | b. All other countries (also, Puerto Rico) | | | |
| | c. Total (equals Question 3-2) | | | |
| 3-5 | Copy the amount from Question 3-4, line a. This is the total domestic R&D paid for by others in 2014. | \$Bil. | Mil. | Thou. |
| 3-6 | Copy the amount from Question 3-4, line b. This is the total foreign R&D paid for by others in 2014. | \$Bil. | Mil. | Thou. |
| | | | | |
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| | omestic, (2) foreign, and (3) r each of the following <u>type</u> | total worldwide R&D paid for by s of costs? |
|-----------------------------------|--|---|
| (1) | (2) Foreign | (3) |
| Domestic \$Bil. Mil. Thou | | Total worldwide hou. \$Bil. Mil. Thou. |
| a. Salaries, wages, and fringe be | enefits | |
| | | |
| b. Stock-based compensation | | |
| | | |
| c. Temporary staffing, including | on-site consultants | |
| 00 000 00 | | |
| d. Expensed equipment | | |
| | | |
| e. Materials and supplies | | |
| 00 000 00 | | |
| f. Leased facilities and equipme | ent | |
| 00 000 00 | | |
| g. Depreciation and amortization | n on R&D property and equipm | nent |
| | | |
| h. Payments to business partner | rs for collaborative R&D | |
| 00 000 00 | 0 000 000 0 | |
| i. Purchased R&D services (if yo | our company is foreign-owned, inclu | ide payments to your foreign owner for R&D) |
| | | |
| j. All other purchased services | except R&D | |
| | | |
| k. All other costs | | |
| 00 000 00 | | |
| l. Total | | |
| 00 000 00 | 0 00 000 0 | |
| Total equals Question 3-5 | Total equals Question | 3-6 Total equals Question 3-2 |



| | (1) Domestic | | | (2) Foreign | | (3) Total world | wido |
|---|---------------------------------------|---|-----------------------|--|------------------------------|---------------------------------|--------------------------|
| \$Bil. | Mil. | Thou. | \$Bil. | Mil. Tho | u. \$Bil. | Mil. | Thou. |
| | | | | | | | |
| | | | | n column and e eany that was p (2) Foreign Mil. Tho | aid for by ot | | wide Thou. |
| ΨΒ | | Thou. | ΨΒΙΙ. | | α. ΨΒπ. | | Thou. |
| is the <u>f</u> was pa | oreign R& id for by o amount re | D performonthers. | ed by you Ouestion 3 | column 2. This r company that 3-10, how much | R&D was pe | | |
| followi | ng locatio \$Bil. | ns? For full list Mil. | of countries in Thou. | each region see Quest | on by Question Gui \$Bil. | dance at <u>econhel</u> Mil. | p.census.gov/br Thou. |
| . Canada | | | | j. Italy | 🕕 | | |
| | | | | | | | |
| . Puerto Rico | 00 | | | k. Luxembo | urg | | |
| . Puerto Rico | \$Bil. | Mil. | Thou. | k. Luxembo | | | |
| Europe | \$Bil. | Mil. | Thou. | k. Luxembo | nds | | |
| Europe . Austria | \$Bil. | Mil. | Thou. | k. Luxembo I. Netherlar m. Norway. | ods | | |
| Europe . Austria . Belgium | \$Bil. | Mil. | Thou. | k. Luxembo I. Netherlar m. Norway. n. Poland | nds | | |
| Europe . Austria . Belgium . Czech Rep. | \$Bil. | Mil. | Thou. | k. Luxembo I. Netherlar m. Norway. | nds | | |
| Europe Austria Belgium Czech Rep. Denmark | \$Bil | Mil. | Thou. | k. Luxembo I. Netherlar m. Norway. n. Poland | ids | | |
| Europe Austria Belgium Czech Rep. Denmark Finland | \$Bil | Mil. O O O O O O O O O O O O O O O O O O O | Thou. | k. Luxembo I. Netherlar m. Norway. n. Poland o. Russia | | | |
| Europe Austria Belgium Czech Rep. Denmark Finland France | \$Bil | Mil. O O O O O O O O O O O O O O O O O O O | Thou. Thou. | k. Luxembo I. Netherlar m. Norway. n. Poland o. Russia p. Spain | | | |
| Europe Austria Belgium Czech Rep. Denmark Finland France Hungary | \$Bil | | Thou. Thou. Thou. | k. Luxembo I. Netherlar m. Norway. n. Poland o. Russia p. Spain q. Sweden. | nds | | |

| 2.44 (Continue | al\ | | | | | | |
|---|---------|-----------|-------------|-------------------------------------|---------|----------|-------|
| 3-11 (Continue | \$Bil. | Mil. | Thou. | I | \$Bil. | Mil. | Thou. |
| u. Other Europe | | | | h. New Zealand | | | |
| Latin America/ Other Western Hemisphere | \$Bil. | Mil. | Thou. | i. Singapore | | | |
| a. Argentina | | | | j. South Korea | | | |
| b. Brazil | | | | k. Taiwan | | | |
| c. Chile | | | | I. Thailand | | | |
| d. Mexico | | | | m. Other Asia/ Pacific | | | |
| e. Other Latin America/OWH | | | | Middle East | \$Bil. | Mil. | Thou. |
| Asia and Pacific | \$Bil. | Mil. | Thou. | a. Israel | | | |
| a. Australia | | | | b. Other Middle East | | | |
| b. China | | | | Africa | \$Bil. | Mil. | Thou. |
| c. Hong Kong | | | | a. South Africa | | | |
| d. India | | | | b. Other Africa | | | |
| e. Indonesia | | | | Total (equals Question 3-10) | | | |
| f. Japan | | | | Question 3-10/ | | | |
| g. Malaysia | | | | | | | |
| Domestic R& | D perf | ormed by | your co | npany that was | paid fo | r by oth | ers |
| 3-12 Copy the | amount | from Oues | tion 3-9, c | olumn 1 | \$Bil. | Mil. | Thou. |
| This is the | e domes | | rformed by | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Α | | s applicable to more than one bus on to operating revenues is acceptable ate. | | | | |
|------------|---|--|--------------------------------|------------------------|-------------------------------|------------------------|
| | Business code (see page 6) | | | \$Bil. | Mil. | Thou |
| a. | | | | | | |
| a. | | | | | | |
| b. | | | | | | |
| c. | | | | | | |
| | | | | | | |
| d. | | | | | | |
| e. | | | | | | |
| f. | | | | | | |
| | | | | | | |
| g. | | | | | | |
| h. | | | | | | |
| i. | Total (equals Que | estion 3-12) | | | | |
| fo | llowing? | mount reported in Question 3 | | | | |
| E a | xample: Company S subcontractor on a c | ub Inc. performs custom software decontract with the U.S. Dept. of Defensiny, it reports the cost of this develope of funds. | evelopment fo se. Even thou | or a large gh Sub I | defense cor nc. is working | npany as g directly |
| | | | | \$Bil. | Mil. | Thou |
| | Other companies | located <u>inside</u> the United States. | | | | |
| a. | Your company's f | oreign parent (if you are owned b | | | | |
| | | | | | | |
| b. | foreign parent) | located <u>outside</u> the United States | 3 | | | |



| 3-14 (C | onti | nue | ed) | | | | \$Bil. | Mil. | Thou. | | |
|--|--|-------|-------|--------|-------|---|--------|------|-------|--|--|
| e. | U.S | . sta | ate (| gov | ernn | nent agencies or laboratories | | | | | |
| £ | F | _ : | | | | ut avancias ou laboustouica | | | | | |
| T. | For | eıgr | ı go | ver | nme | nt agencies or laboratories | | | | | |
| g. | g. All other organizations inside the United States | | | | | | | | | | |
| h. | AII | othe | er o | rga | nizat | ions outside the United States | | | | | |
| i. | Tot | al (| eau | als | Que | stion 3-12) | | | | | |
| | | · · | | | | , in the second | \$Bil. | Mil. | | | |
| | 3-15 Add Question 3-14, lines a, b, and c, and enter the result here. This is the R&D that was paid for by | | | | | | | | Thou. | | |
| | her | | | | | | | | | | |
| | | | | | | | | | | | |
| Question 3-15 based on the industries of the companies that paid for the R&D. As needed, enter additional codes from pages 46-47 in the spaces provided. | | | | | | | | | | | |
| | В | Busir | ıess | \$Bil. | Mil. | Thou. | | | | | |
| a. | 3 | 2 | 5 | 4 | 1 | Pharmaceutical, medicinal, and botanical products manufacturing | | | | | |
| b. | 3 | 3 | 9 | 7 | 0 | Medical equipment and supplies | | | | | |
| D. | | | | | | manufacturing | | | | | |
| c. | 3 | 3 | 2 | 0 | 0 | manufacturing | | | | | |
| d. | 3 | 2 | 6 | 0 | 0 | Plastics and rubber products manufacturing | | | | | |
| e. | 3 | 3 | 5 | 0 | 0 | Electrical equipment, appliances, and components manufacturing | | | | | |
| | 5 | 1 | 7 | 2 | 0 | | | | | | |
| f. | | | | | | Software publishers (except Internet) | | | | | |
| g. | | | | | | | | | | | |
| h. | | | | | | | | | | | |
| i. | | | | | | | | | | | |
| | | | | | | | | | | | |
| j. | | | | | | | | | | | |
| | | | | | | Question continues on next page | | | | | |

| Business code | Description | \$Bil. | Mil. | Thou |
|--|---|----------|------|------|
| k. | | | | |
| | | | | |
| | |] 🔱 | | |
| | | | | |
| m. | | | | |
| n. | |] | | |
| | | | | |
| o. Total (equals Que | stion 3-15) | | | |
| Conv the amount for | om Question 3-14, line d. This | \$Bil. | Mil. | Thou |
| is domestic R&D pe | rformed by your company that was federal government. | <u>s</u> | | |
| paid for by the 0.5. | Tederal government. | | | |
| | mount reported in Question 3-17 w | as paid | | |
| for by the following | agencies? | \$Bil. | Mil. | Thou |
| a. Department of Defe | ense | | | |
| | | | | |
| b. Department of Ene | rgy | | | |
| c. National Aeronauti | cs and Space Administration | 🕕 | | |
| | | | | |
| d. National Institutes | of Health | | | |
| | | | | |
| e. Department of Hon | neland Security | | | |
| e. Department of Hon | neland Security | | | |
| | nsportation | | | |
| f. Department of Tran | nsportation | | | |
| f. Department of Tran | | | | |
| f. Department of Trang. Environmental Prof | nsportation | 00 | | |
| f. Department of Trang. Environmental Prof | nsportationtection Agency | 00 | | |
| f. Department of Trang. Environmental Prof. h. National Science Fo | nsportationtection Agency | 00 | | |
| f. Department of Trang. Environmental Prof. h. National Science Fo | nsportationtection Agency | 00 | | |

| 3-19 How much of the amount reported in Question 3-17 was p following types of agreements? | erforme | d under the | 1 |
|--|-----------|--------------|----------|
| | \$Bil. | Mil. | Thou. |
| a. Contracts (include direct or prime contracts and subcontracts) | | | |
| b. Grants, reimbursements, and all other agreements | | | |
| c. Total (equals Question 3-17) | | | |
| 3-20 Subtract Question 3-17 from Question 3-12 and enter | \$Bil. | Mil. | Thou. |
| the result here. This is the domestic R&D performed by your company that was paid for by nonfederal sources. | | | |
| | | | |
| 3-21 How much of the following three amounts was performed (including D.C.): (1) Domestic R&D paid for by the U.S. federal government | | | ion 3-17 |
| (2) Domestic R&D paid for by nonfederal sources reporte (3) Total domestic R&D performed by your company that | ed in Que | estion 3-20 | |
| reported in Question 3-12 | | | |
| (1) (2) Federal Nonfederal | | (3) Total | |
| \$Bil. Mil. Thou. \$Bil. Mil. Thou. | \$Bil. | Mil. | Thou. |
| Alabama | | | |
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| Alaska | | | |
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| Arizona | | | |
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| Arkansas | | | |
| | | | |
| California | | | |
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| Colorado | | | |
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| Connecticut | | | |
| 00 000 000 00 000 | | | |
| Question continues on next page | | | |

| 3-21 (Con | tinued) | | | | | | | |
|----------------|-------------------------------|---------|-----------|----------------------------------|----------|----------|-----------------------------|--------------|
| \$Bil. | (1) Federal <u>Mil.</u> | Thou. | \$Bil. | (2) Nonfederal <u>Mil.</u> | Thou. | \$Bil. | (3) Total <u>Mil.</u> | <u>Thou.</u> |
| Delaware | | <u></u> | <u> </u> | | | <u>*</u> | | <u></u> |
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| District of Co | lumbia | | | | | | | |
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| Florida | | | | | | | | |
| Georgia | | | | | | | | |
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| Illinois | | | | | | | | |
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| Kansas | | | | | | | | |
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| Kentucky | | | | | | | | |
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| Louisiana | | | | | | | | |
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| Maine | | | | | | | | |
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| | | Q | uestion c | ontinues on r | ext page | | | |

| 3-21 (Continue | ed) | | | | | | |
|-----------------|--------------------------|---------------|-------------------|--------------|--------------|--------------|--------------|
| F | (1) ederal | AD | (2) Nonfederal | - | AD !! | (3) Total | |
| \$Bil. Maryland | <u>Iil.</u> <u>Thou.</u> | <u>\$Bil.</u> | <u>Mil.</u> | <u>Thou.</u> | \$Bil. | <u>Mil.</u> | <u>Thou.</u> |
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| Massachusetts | | | | | | | |
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| Michigan | | | | | | | |
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| Minnesota | | | | | | | |
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| Nevada | | | | | | | |
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| New Hampshire | | | | | | | |
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| New Jersey | | | | | | | |
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| New Mexico | | | | | | | |
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| New York | | | | | | | |
| | | | | | | | |
| | | Question | continues on n | ext page | | | |

| 3-21 (Continued) (1) Federa | | | (2) Nonfederal | | | (3) Total | |
|-----------------------------|-------|-----------|--------------------|----------|---------------|---------------|-------|
| \$Bil. Mil. North Carolina | Thou. | \$Bil. | Nonfederal Mil. | Thou. | <u>\$Bil.</u> | Total Mil. | Thou. |
| | | | | | | | |
| North Dakota | | | | | | | |
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| Ohio | | | | | | | |
| Oklahoma | | | | | | | |
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| Oregon | | | | | | | |
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| Pennsylvania | | | | | | | |
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| Rhode Island | | | | | | | |
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| South Carolina | | | | | | | |
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| Texas | | | | | | | |
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| Utah | | | | | | | |
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| Vermont | | | | | | | |
| | Q | uestion c | ontinues on no | ext page | | | |

| 3-21 (Cd | ontinued) | | | | | | | |
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| 021 (00 | (1) | | | (2) | | | (3) | |
| ¢D:I | Federal | Thau | ¢D:I | (2) Nonfedera | | ¢D:I | (3) Total | Thou |
| \$Bil. Virginia | Mil. | <u>Thou.</u> | \$Bil. | <u>Mil.</u> | Thou. | \$Bil. | Mil. | <u>Thou.</u> |
| Virginia | | | | | | | | |
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| Washingto | n | | | | | | | |
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| West Virgi | nia | | | | | | | |
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| Wisconsin | | | 1 | | | | | |
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| Wyoming | | | | | | | | |
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| To | otal equals Que | stion 3-17 | Tota | al equals Ques | tion 3-20 | Tota | l equals Que | estion 3-12 |
| 2 22 44 | | 4:- 4: | | | | | delles ess | |
| 3-22 At R& | what <u>domes</u> D that was | paid for by | others in | 2014? | periorm the | e largest | dollar am | ount of |
| | dress 1 | | | | | | | |
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| Ad | dress 2 | | | | | | | |
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| 3-23 Ho | w much of t | he amount | reported | in Question | า 3-12 | \$Bil. | Mil. | Thou. |
| wa | s from the l | ocation ide | ntified in | Question 3 | -22? | | | |
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| | City | State | ZIP | |
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| 25 | How much of the amount reported in Question 3-12 | \$Bil. | Mil. | Thou. |
| | was from the location identified in Question 3-24? | | | |
| | | | | |
| oje | ected R&D paid for by others in 2015 | | | |
| 26 | What are your company's projected 2015 costs for R&D | | | |
| | that will be paid for by others? | \$Bil. | Mil. | Thou. |
| | NOTE: This amount is the 2015 projection for what is reported in Question 3-2. | | | |
| | | | | |
| 27 | How much of the projected costs in 2015 for R&D that wi be paid for by others reported in Question 3-26 will be | II | | |
| | performed by your company in the United States? | \$Bil. | Mil. | Thou. |
| | NOTE: This amount is the 2015 projection for what is reported in Question 3-12. | | | |
| | | | | |
| 28 | How much of the projected costs in 2015 for domestic R8 performed by your company that will be paid for by others | kD s | | |
| | reported in Question 3-27 will be paid for by the U.S. federal government? | \$Bil. | Mil. | Thou. |
| | NOTE: This amount is the 2015 projection for what is reported in Question 3-17. | | | |
| | Toporton in Augustion of 171 | | | |

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.

- Copy the amount from Question 2-4. This is the total R&D paid for by your company in 2014.
- \$Bil. Mil. Thou.
- 4-2 Is the amount entered in Question 4-1 greater than zero?
 - Yes → Continue with Question 4-3
 - No → Skip to Question 4-17 on page 37
- 4-3 What percentage of the amount reported in Question 4-1 was directed toward business areas or product lines that are new to your company?

Example: Company A manufactures laptop computers. In 2014 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 2014, Company A reports this R&D in this question.



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

4-4 Copy the amount from Question 2-15. This is the domestic R&D paid for and performed by your company.

| \$Bil. | Mil. | Thou. | | | |
|--------|------|-------|--|--|--|
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4-5 How much of the amount reported in Question 4-4 was for the following categories?

| \$Bil. | Mil. | Thou. | | |
|--------|------|-------|--|--|
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| | | | | |

a. Research-the planned, systematic pursuit of new knowledge or understanding....... b. Development-the systematic use of research and practical experience to produce new or significantly

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| 4-6 | If you reported any research in Question 4-5, line a, how much of that research was for the following categories? | \$Bil. | Mil. | Thou. |
|---|---|--------------|-------------|-------|
| | a. Applied research—the activity aimed at solving a specific problem or meeting a specific commercial objective | | | |
| | b. Basic research—the activity aimed at acquiring new knowledge or understanding without specific immediate commercial application or use | | | |
| | c. Total (equals Question 4-5, line a) | | | |
| Areas of application for domestic R&D paid for and performed by your company | | | | |
| NOTE: You may report the same R&D in multiple areas for Questions 4-7 to 4-11. | | | | |
| 4-7 | What percentage of the amount reported in Question 4-4 had energy applications, including energy production, distribution, storage, and efficiency (excluding exploration and prospecting)? | | | |
| | Example: Company B is a semiconductor manufacturer. Its products as specifically for energy applications. In 2014, 10% of the domestic R&D particle the company was focused on improving the energy efficiency of its prothis, Company B reports "10%" for this question. | performed by | | % |
| 4-8 | What percentage of the amount reported in Question 4-4 henvironmental protection applications, including pollution abatement? | | | % |
| 4-9 | What percentage of the amount reported in Question 4-4 hadefense applications, including military applications and great security-related R&D? | | | % |
| 4-10 | What percentage of the amount reported in Question 4-4 halth or medical applications? | nad | | % |
| 4-11 | What percentage of the amount reported in Question 4-4 hagricultural applications? | nad | | % |
| 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 4-12 to 4-16. | | | | |
| 4-12 | What percentage of the amount reported in Question 4-4 vesoftware products or software embedded in other projects | | <u>ts</u> ? | % |
| 4-13 | What percentage of the amount reported in Question 4-4 volumes and photonics—science and technology involving the processing, and detection of light, or of the information can be a second control of the information of the | he emissior | | % |



| 4-14 What percentage of the amount reported in Question 4-4 vother projects or products enabled by optics and photonic and technology? | | | % |
|--|----------|---------|-------|
| 4-15 What percentage of the amount reported in Question 4-4 v biotechnology—the use of cellular and bio-molecular procesolve problems or make useful products? | | | % |
| What percentage of the amount reported in Question 4-4 vananotechnology—the science and technology involving we nanometer scale? | | | % |
| Domestic R&D performed by your company that was | paid for | by othe | rs |
| 4-17 Copy the amount from Question 3-12. This is the domestic R&D performed by your company that was paid for by others. | \$Bil. | Mil. | Thou. |
| 4-18 Is the amount entered in Question 4-17 greater than zero? | | | |
| Yes → Continue with Question 4-19 | | | |
| No → Skip to Section 5 on page 40 | | | |
| 4-19 How much of the amount reported in Question 4-17 was for the following categories? | \$Bil. | Mil. | Thou. |
| Research-the planned, systematic pursuit of new knowledge or understanding | | | |
| b. <u>Development</u> -the systematic use of research and practical experience to produce new or significantly improved goods, services, or processes | | | |
| c. Total (equals Question 4-17) | | | |
| 4-20 If you reported any research in Question 4-19, line a, how | | | |
| much of that research was for the following categories? | \$Bil. | Mil. | Thou. |
| a. Applied research-the activity aimed at solving a specific problem or meeting a specific commercial objective | | | |
| b. Basic research—the activity aimed at acquiring new knowledge or understanding without specific immediate commercial application or use | | | |
| c. Total (equals Question 4-19, line a) | | | |
| | | | |
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| NOTE: You may report the same R&D in multiple areas for Questions 4-21 to 4-25. |
|--|
| What percentage of the amount reported in Question 4-17 had energy applications, including energy production, distribution, storage, and efficiency (excluding exploration and prospecting)? |
| 4-22 What percentage of the amount reported in Question 4-17 had environmental protection applications, including pollution abatement? |
| What percentage of the amount reported in Question 4-17 had defense applications, including military applications and general security-related R&D? |
| 4-24 What percentage of the amount reported in Question 4-17 had health or medical applications? |
| 4-25 What percentage of the amount reported in Question 4-17 had agricultural applications? |
| Technology focus of domestic R&D performed by your company that was paid for by others |
| NOTE: You may report the same R&D in multiple areas for Questions 4-26 to 4-30. |
| 4-26 What percentage of the amount reported in Question 4-17 was for software products or software embedded in other projects or products? |
| 4-27 What percentage of the amount reported in Question 4-17 was for optics and photonics—science and technology involving the emission, processing, and detection of light, or of the information carried by light? |
| What percentage of the amount reported in Question 4-17 was for other projects or products enabled by optics and photonics science and technology? |
| 4-29 What percentage of the amount reported in Question 4-17 was for biotechnology—the use of cellular and bio-molecular processes to solve problems or make useful products? |
| 4-30 What percentage of the amount reported in Question 4-17 was for nanotechnology—the science and technology involving work at the nanometer scale? |
| |
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| |

| Dom U.S. | nestic R&D performed by your company that was federal government | paid fo | or by the | |
|-------------|---|---------|-----------|-------|
| 4-31 | Copy the amount from Question 3-17. This is domestic R&D performed by your company that was paid for by the U.S. federal government. | \$Bil. | Mil. | Thou. |
| 4-32 | Is the amount entered in Question 4-31 greater than zero Yes → Continue with Question 4-33 No → Skip to Section 5 on page 40 | ? | | |
| 4-33 | How much of the amount reported in Question 4-31 was for the following categories? | \$Bil. | Mil. | Thou. |
| | a. Research-the planned, systematic pursuit of new knowledge or understanding | | | |
| | b. <u>Development</u> —the systematic use of research and practical experience to produce new or significantly improved goods, services, or processes | | | |
| | c. Total (equals Question 4-31) | | | |
| 4-34 | If you reported any research in Question 4-33, line a, how much of that research was for the following categories? | \$Bil. | Mil. | Thou. |
| | a. Applied research—the activity aimed at solving a specific problem or meeting a specific commercial objective | | | |
| | b. Basic research—the activity aimed at acquiring new knowledge or understanding without specific immediate commercial application or use | | | |
| | c. Total (equals Question 4-33, line a) | | | |
| 4-35 | What percentage of the amount reported in Question 4-31 software products or software embedded in other project | | | % |
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SECTION 5

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.

| vviiicii y | rour company owned more in | an so percent. | | |
|------------|--|-------------------------------|------------------------------|------------------------------|
| 5-1 | What was the total number your company for the pay | | | |
| | Include: Full- and part-time employed Exclude: Leased or temporary employed | | | Number |
| | | | | |
| 5-2 | How many of the employed your company's domestic Domestic operations employed | operations and <u>forei</u> | gn operations? | |
| | first quarter filing of IRS Form | | | |
| | | (1) Domestic operations | (2) Foreign operations | (3) Total employees |
| | Employees | | | |
| | | | | Total equals Question 5-1 |
| | | | | |

How many employees reported in Question 5-2 were R&D employees and how many were all other employees?

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

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

Total line equals Question 5-2



| Comparison Com | D 9. Γ | | | | |
|--|---------------|---|---|--|--------------------|
| R&D employees. 1 | next | O employees | | | |
| R&D employees | 5-4 | | uestion 5-3, line a. Tl | hese are your compa | ny's |
| How many of the R&D employees reported in Question 5-4 were female employees and male employees? (1) | | | Domestic | Foreign | Total R&D |
| and male employees? (1) Coperations operations operations a. Female R&D employees b. Male R&D employees C. Total R&D employees Total line equals Question 5-4 How many of the R&D employees reported in Question 5-4 worked in the occupations listed below? (1) Coperations a. R&D scientists, engineers, and managers b. R&D technicians and technologists c. R&D support staff (clerical and other) d. Total R&D employees Total line equals Question 5-4 How many of the R&D scientists, engineers, and managers reported in Question 5-6, line a, had the following level of education? (1) Coperations (2) Gall Total R&D employees Total line equals Question 5-4 Total R&D employees (1) Coperations (2) Foreign (3) Total Operations (3) Total PD employees (1) Coperations (3) Foreign (3) Total Operations PhD (excluding MD, | | R&D employees | | | |
| a. Female R&D employees b. Male R&D employees C. Total R&D employees Total line equals Question 5-4 How many of the R&D employees reported in Question 5-4 worked in the occupations listed below? (1) | 5-5 | | (1) Domestic | (2) Foreign | (3) Total R&D |
| C. Total R&D employees Total line equals Question 5-4 How many of the R&D employees reported in Question 5-4 worked in the occupations listed below? (1) (2) (3) Total R&D employees a. R&D scientists, engineers, and managers | | a. Female R&D employees | operations | operations | employees |
| Total line equals Question 5-4 How many of the R&D employees reported in Question 5-4 worked in the occupations listed below? (1) | | b. Male R&D employees | | 000000 | |
| How many of the R&D employees reported in Question 5-4 worked in the occupations listed below? (1) (2) (3) Total R&D employees a. R&D scientists, engineers, and managers b. R&D technicians and technologists c. R&D support staff (clerical and other) d. Total R&D employees Total line equals Question 5-4 How many of the R&D scientists, engineers, and managers reported in Question 5-6, line a, had the following level of education? (1) (2) (3) Total R&D employees Total line equals Question 5-4 | | c. Total R&D employees | | | |
| occupations listed below? (1) (2) (3) Total R&D employees a. R&D scientists, engineers, and managers | | | То | tal line equals Question 5 | -4 |
| a. R&D scientists, engineers, and managers | 5-6 | | (1) | (2) | (3) |
| engineers, and managers | | DOD 1 4 4 | | | |
| technologists | | | | | |
| d. Total R&D employees Total line equals Question 5-4 How many of the R&D scientists, engineers, and managers reported in Question 5-6, line a, had the following level of education? (1) Domestic Operations PhD (excluding MD, | | managers | | | |
| Total line equals Question 5-4 How many of the R&D scientists, engineers, and managers reported in Question 5-6, line a, had the following level of education? (1) (2) Foreign Operations PhD (excluding MD, | | b. R&D technicians and | | | |
| How many of the R&D scientists, engineers, and managers reported in Question 5-6, line a, had the following level of education? (1) (2) Foreign Operations PhD (excluding MD, | | b. R&D technicians and technologistsc. R&D support staff | | | |
| line a, had the following level of education? (1) Domestic Operations PhD (excluding MD, (2) Foreign Operations Total | | b. R&D technicians and technologistsc. R&D support staff (clerical and other) | | | |
| Domestic Foreign Total Operations Operations PhD (excluding MD, | | b. R&D technicians and technologistsc. R&D support staff (clerical and other) | To | tal line equals Question 5 | |
| | 5-7 | b. R&D technicians and technologists c. R&D support staff (clerical and other) d. Total R&D employees How many of the R&D science | entists, engineers, ar | · | |
| | 5-7 | b. R&D technicians and technologists c. R&D support staff (clerical and other) d. Total R&D employees How many of the R&D science | entists, engineers, ar evel of education? (1) Domestic | nd managers reported (2) Foreign | d in Question 5-6, |
| | 5-7 | b. R&D technicians and technologists c. R&D support staff (clerical and other) d. Total R&D employees How many of the R&D sciline a, had the following least the complex of the property of the | entists, engineers, ar evel of education? (1) Domestic | nd managers reported (2) Foreign | d in Question 5-6, |
| | 5-7 | b. R&D technicians and technologists c. R&D support staff (clerical and other) d. Total R&D employees How many of the R&D sciline a, had the following least the complex of the property of the | entists, engineers, ar evel of education? (1) Domestic | nd managers reported (2) Foreign | d in Question 5-6, |



| a. FTEs for full-time R&D employees Count the number of full-time employees who work only on R&D Example: 50 full-time R&D employees worked only on R&D = 50 FTEs b. FTEs for other full-time employees not working solely on R&D Use the share of the time they work on R&D to calculate the number of FTEs. Example: 60 full-time employees averaged one-fourth of their time on R&D = 15 FTEs c. FTEs for part-time employees working on R&D Use the share of a full-time week (such as 40 hours) that they work on R&D to calculate the FTEs. Example: 20 part-time employees averaged 20 hours a week on R&D activities = 10 FTEs d. Total FTEs should not exceed Question 5-4, column | 01 | ther full-time employees not working solely on R&D, and part-time employees? |
|---|----|--|
| Example: 50 full-time R&D employees worked only on R&D = 50 FTEs b. FTEs for other full-time employees not working solely on R&D Use the share of the time they work on R&D to calculate the number of FTEs. Example: 60 full-time employees averaged one-fourth of their time on R&D = 15 FTEs c. FTEs for part-time employees working on R&D Use the share of a full-time week (such as 40 hours) that they work on R&D to calculate the FTEs. Example: 20 part-time employees averaged 20 hours a week on R&D activities = 10 FTEs d. Total FTEs. | a. | · · · · · · · · · · · · · · · · · · · |
| b. FTEs for other full-time employees not working solely on R&D Use the share of the time they work on R&D to calculate the number of FTEs. Example: 60 full-time employees averaged one-fourth of their time on R&D = 15 FTEs c. FTEs for part-time employees working on R&D Use the share of a full-time week (such as 40 hours) that they work on R&D to calculate the FTEs. Example: 20 part-time employees averaged 20 hours a week on R&D activities = 10 FTEs d. Total FTEs. | | |
| Use the share of the time they work on R&D to calculate the number of FTEs. Example: 60 full-time employees averaged one-fourth of their time on R&D = 15 FTEs c. FTEs for part-time employees working on R&D Use the share of a full-time week (such as 40 hours) that they work on R&D to calculate the FTEs. Example: 20 part-time employees averaged 20 hours a week on R&D activities = 10 FTEs d. Total FTEs | | |
| c. FTEs for part-time employees working on R&D Use the share of a full-time week (such as 40 hours) that they work on R&D to calculate the FTEs. Example: 20 part-time employees averaged 20 hours a week on R&D activities = 10 FTEs d. Total FTEs | b. | Use the share of the time they work on R&D to calculate the |
| Use the share of a full-time week (such as 40 hours) that they work on R&D to calculate the FTEs. Example: 20 part-time employees averaged 20 hours a week on R&D activities = 10 FTEs d. Total FTEs. | | |
| 20 part-time employees averaged 20 hours a week on R&D activities = 10 FTEs d. Total FTEs | c. | Use the share of a full-time week (such as 40 hours) that they work |
| | | |
| Total FTEs should not exceed Question 5-4, colum | d. | Total FTEs |
| | | Total FTEs should not exceed Question 5-4, column |
| | | |



| 5-9 | ro | the domestic R&D scientists, engineers, and managers reported in Question 5-6, w a, column 1, what was the number of full-time equivalents (FTEs) for R&D stivity for full-time R&D employees, other full-time employees not working solely R&D, and part-time employees? |
|------|-----|---|
| | a | FTEs for full-time R&D scientists, engineers, and managers |
| | u. | Count the number of full-time employees who work only on R&D |
| | | Example: 50 full-time R&D scientists worked only on R&D = 50 FTEs |
| | b. | FTEs for other full-time scientists, engineers, and managers not working soley on R&D |
| | | Use the share of the time they work on R&D to calculate the number of FTEs |
| | | Example: 60 full-time managers averaged one-fourth of their time on R&D = 15 FTEs |
| | c. | FTEs for part-time scientists, engineers, and managers working on R&D |
| | | Use the share of a full-time week (such as 40 hours) that they work on R&D to calculate the FTEs |
| | | Example: 20 part-time employees averaged 20 hours a week on R&D activities = 10 FTEs |
| | d. | Total FTEs |
| | | Total FTEs should not exceed Question 5-6, line a, column 1. |
| 5-10 | lir | ow many of the R&D scientists, engineers, and managers reported in Question 5-6, nee a, column 1, were non-U.S. citizens employed in the United States under a mporary visa, such as H-1B or L-1? |
| | | &D scientists, engineers, and managers employed under temporary visa |
| | | |
| | | |



SECTION 6

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 intellectual property and technology transfer activities such as:

- Patents
- Patent licensing
- Protection of intellectual property
- Transfer of intellectual property

Are responses to this survey confidential?

Yes. Your responses are completely confidential under Title 13, United States Code, and are seen only by persons sworn to uphold the confidentiality of Census Bureau information. Data provided will be used only to publish summary statistics that do not identify individual companies. Title 13 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.

| Pate | | | |
|------|--|----------------|------------|
| 6-1 | How many patents did your company apply for in 2014 frou U.S. Patent and Trademark Office (USPTO)? | m the | Number |
| 6-2 | What percentage of the patent applications reported in Qu 6-1 has your company applied for or plans to apply for in f jurisdictions? | | % |
| 6-3 | What percentage of the patent applications reported in Qu 6-1 was for inventions that originated within your companorganized R&D activities? | | % |
| 6-4 | How many patents were <u>issued</u> to your company in 2014 b | oy the USPT(| Number O? |
| 6-5 | What percentage of your company's inventions considered in 2014 resulted in patent applications? | l for patentii | ng |
| Pate | ent sales and licensing to others | | |
| 6-6 | How much revenue did your company receive in 2014 from the sale of patents? | \$Bil. N | fil. Thou. |
| 6-7 | How much revenue did your company receive in 2014 from patent licensing? | \$Bil. N | fil. Thou. |



| Patent purchases and licensing <u>from others</u> | | |
|--|-------------------------|------------------|
| 6-8 How much did your company pay others in 2014 to purchase patents? | Mil. | Thou. |
| 6-9 How much did your company pay others in 2014 to license patents? | Mil. | Thou. |
| Intellectual property transfer activities | | |
| 6-10 Did your company perform the following activities in 2014? | | |
| Transferred intellectual property (IP) to others not owned by your company through participation in technical assistance or "know how" agreements | □ Yes | □ No |
| b. Received IP from others not owned by your company through participation in technical assistance or "know how" agreements | 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 | ☐ Yes | □ No |
| h. Allowed free use of patents or other IP owned by your company (for example, allowing free use of software patents by the open source community) | ☐ Yes | □ No |
| i. Made use of open source patents or other freely available IP not owned by your company | ☐ Yes | □ No |
| Intellectual property protection | | |
| 6-11 During 2014, how important to your company were the following types of intellectual property protection? Very important | Somewhat t 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) | | |



| Di.n | | 0 | |
|----------------|--|----------------|--|
| | ess codes n Sections 1, 2, and 3) | | mer Goods |
| l ' | | 33430 31210 | Audio and video equipment manufacturing Beverage manufacturing |
| | ace and Defense | 33200 | Fabricated metal products manufacturing |
| 33642 | Aircraft engine and engine parts manufacturing Aircraft manufacturing | 31100 | Food manufacturing |
| 33641 33644 | Guided missiles, space vehicles, and parts | 33700 | Furniture and related products manufacturing |
| 55044 | manufacturing | 32300 | Printing and related support activities |
| 33692 | Military armored vehicle, tank, and tank | 32591 | Soap, cleaning compound, and toilet preparations manufacturing |
| | components manufacturing | 31990 | Textile, apparel, and leather products |
| 33452 | Search, detection, navigation, guidance, | 0.000 | manufacturing |
| | aeronautical, and nautical system and instruments manufacturing | 31220 | Tobacco manufacturing |
| 33660 | Ship and boat building | 33990 | Miscellaneous manufacturing not listed |
| 33643 | Other aircraft parts and auxiliary equipment | | elsewhere (games, office supplies, slot machines, etc.) |
| | manufacturing | | siot inacimies, etc./ |
| Automo | obiles, Motorcycles, and Components | Energy | and Mining |
| 33620 | Motor vehicle body and trailer manufacturing | 33360 | Engine, turbine, and power transmission |
| 33630 | Motor vehicle parts manufacturing | | equipment manufacturing |
| 33610 | Motor vehicles manufacturing | 21200 | Mining |
| 33691 | Motorcycle, bicycle, and parts manufacturing | 33319 | Mining, oil, and gas field machinery and equipment manufacturing |
| 33651 | Railroad rolling stock manufacturing | 21100 | Oil and gas extraction |
| 33660 33699 | Ship and boat building All other transportation equipment | 32401 | Petroleum refineries |
| 33033 | manufacturing | 21300 | Support activities for mining, |
| Conital | G | | including oil and gas |
| 33311 | Equipment Agricultural machinery and equipment | Financ | e, Insurance, and Real Estate |
| 33311 | manufacturing | 52200 | Finance: banking and credit intermediation |
| 33332 | Commercial, service industry, temperature | 52400 | Insurance carriers and related activities |
| | control, and airflow control machinery | 53100 | Real estate |
| | manufacturing | 52310 | Securities, commodity contracts, and other |
| 33312 | Construction machinery manufacturing | | financial investments and related activities |
| 33500 | Electrical equipment, appliances, and components manufacturing | | (including funds and trusts) |
| 33360 | Engine, turbine, and power transmission | Health | care |
| 33322 | equipment manufacturing Industrial machinery manufacturing, except | 32543 | Biotechnology-based pharmaceutical and |
| 33322 | semiconductor machinery | 33451 | biological products (except diagnostics) Electromedical, electrotherapeutic, and |
| 33390 | Metalworking and other general purpose | 33451 | irradiation apparatus manufacturing |
| | machinery manufacturing | 62200 | Hospitals and nursing care facilities |
| 33319 | Mining, oil, and gas field machinery and | 32542 | In vitro diagnostic substances manufacturing |
| 33331 | equipment manufacturing Photographic and photocopying equipment | 62150 | Medical and diagnostic laboratories |
| 33331 | manufacturing | 33910 | Medical equipment and supplies manufacturing |
| l | • | 62110 32541 | Offices of physicians Pharmaceutical, medicinal, and botanical |
| | als and Materials | 32341 | products manufacturing |
| 32402 | Asphalt paving, roofing, and saturated materials manufacturing | 54173 | Research and development services |
| 32510 | Basic chemicals manufacturing | | in biotechnology |
| 32790 | Cement, concrete, lime, gypsum, and other | 54174 | Research and development services in physical, engineering, and life sciences |
| | nonmetallic mineral product manufacturing | | (except biotechnology) |
| 32710 | Clay and glass products manufacturing | 62199 | Other ambulatory health care services |
| 21200 | Mining | | (ambulance, dental, home health care) |
| 32592 | Paint, adhesive, and other chemical manufacturing | | |
| 32200 | Paper manufacturing | | |
| 32530 | Pesticide, fertilizer, and other agricultural | | |
| | chemical manufacturing | | |
| 32600 | Plastics and rubber products manufacturing | | |
| 33100 | Primary metal manufacturing | | |
| 32520 | Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing | | |
| 32591 | Soap, cleaning compound, and toilet | | |
| | preparations manufacturing | | |
| 32100 | Wood products manufacturing | | |
| 32403 | Other petroleum and coal products | | |
| | manufacturing, including motor oil, | | |
| | hydraulic fluid, and charcoal | | |



| Inform | ation Technology - Goods and Services |
|--------|---|
| 51801 | Cloud computing applications and internet based software services |
| 54150 | Computer systems design and related services |
| 33412 | Computers and peripheral equipment |
| | manufacturing, including magnetic and optical media |
| 51800 | Data processing, hosting, and related services |
| 33500 | Electrical equipment, appliances, and |
| | components manufacturing |
| 45411 | Electronic shopping and 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 54130 54150 | Advertising and related services Architectural, engineering, and related services 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

| | 00101000 |
|----------------|---|
| 72000 56100 | Accommodation and food services 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) |
| | |



| Remarks (Please use the space below for any explanations that may help us understand your reported data |
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