

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

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2008 BUSINESS R&D AND INNOVATION SURVEY

OMB No. 0607-0912: Approval Expires 10/31/2011

DUE DATE:

Report electronically:

www.census.gov/econhelp/brdis

Username:

Password:

Reporting electronically allows you to save your work as you go through the form and could save you time.

Report by mail:

If you report online, please do **not** mail in the paper form.

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

For information or assistance:

- www.census.gov/econhelp/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.

INFORMATION COPY DO NOT USE TO REPORT

(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 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.

Thank You - Your Response is Important

The Business R&D and Innovation Survey will provide valuable information for U.S. policy makers as well as industry and academic data users. Better information about R&D and innovation in the U.S. business sector will help leaders make better decisions to strengthen American competitiveness.

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

What does this survey ask?

This survey asks questions about your company's **R&D expenses** as well as R&D that is paid for by customers, the government, and other organizations that are not owned by your company (**funded R&D**). This survey also requests data on your company's R&D employees and intellectual property.

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

- Asks for strategic and technical information about your company's R&D expense reported in Section 2
 Best answered by persons with first-hand knowledge of R&D operations, such as a VP of research
- Section 4: R&D Funded or Paid for by Othersp.29
- Asks for information about R&D that is paid for by others, such as that paid for by customers or partners
- Best answered by persons with knowledge of your company's financial records related to contracts and grants

Section 5: R&D Human Resourcesp.4

- Asks for information about your company's R&D employees
- Best answered by persons with knowledge of your company's human resources records

Section 6: Intellectual Property, Technology Transfer, and Innovationp.49

- Asks for information about intellectual property, patents, technology transfer activities such as patent licensing, and actions taken to improve company performance
- Best answered by persons with knowledge of your company's patenting, licensing, and general business strategy

Are electronic copies of this survey form available?

You can download PDF copies of this survey from our website: www.census.gov/econhelp/brdis. Downloaded forms are for coordination purposes only and should not be returned to the Census Bureau because they lack the unique barcodes that appear on the form that was mailed to your company.



Company Information



General Instructions

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. It includes 1) activity aimed at acquiring new knowledge or understanding without specific immediate commercial application or use (basic research); 2) activity aimed at solving a specific problem or meeting a specific commercial objective (applied research); and 3) systematic use of research and practical experience to produce new or significantly improved goods, services, or processes (development).

The term Research and Development 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

Can I file this survey electronically?

Yes. You may submit your report by mail or electronically via Census Taker, a web-based form.

How to file electronically

- (1) Go to www.census.gov/econhelp/brdis
- (2) Click on Report Online
- (3) Follow the online instructions to log in and respond to this survey

Advantages

- Reduced time and expense to report
- Improved quality through automatic data checks
- Data are saved to secure Census Bureau servers as you complete the form. You can exit the form and resume at a later time without losing your data.
- Save a paper or electronic version of your completed form

Security

- Your information is encrypted at <u>all</u> times
- No cookies are used
- · No plug-ins or downloaded software is required

How do I obtain additional information?

Our website www.census.gov/econhelp/brdis has the following information:

- More detailed general information about the Business R&D and Innovation Survey
- Frequently asked questions
- Sample questionnaires
- · Worksheets for each section in a format that can be saved and emailed

How do I obtain copies of the final data reports?

Data from this survey, as well as other sources of information on science and technology, are available at the National Science Foundation's website: www.nsf.gov/statistics/.

How should dollar amounts be reported?

Report all dollar amounts rounded to the nearest thousand.

	\$Bil.		Mil		Thou.		
Example: If figure is \$179,125,628.00 report:		1	7	9	1	2	6



1•1	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, but he or she will be able to request information from other knowledgeable resources within your company. The survey coordinator may be assigned by your company's CEO or another person with oversight of or access to your company's R&D, accounting, human resources, and legal organizations. Name										
	Name Title										
	Area code Number Extension Area code Number										
	Telephone Fax Fax										
	E-mail address										
1•2	Did your company cease operations prior to April 1, 2008?										
	Yes → Stop here and return the survey form to the U.S. Census Bureau.										
	Alternatively, you may report online at: www.census.gov/econhelp/brdis.										
	□ No → Continue with Question 1•3										
1•3	Did another <u>U.S.</u> company own more than 50 percent of your company during 2008?										
	☐ Yes → Please provide the following information:										
	Name of owner EIN of owner (9 digits)										
	(MM) (DD) (YYYY)										
	Date owner purchased your company										
	If your company was purchased <u>before</u> April 1, 2008, stop here. Return this survey to the U.S. Census Bureau or report online at: www.census.gov/econhelp/brdis.										
	No → Continue with Question 1•4										
1-4	Did your company do any of the following duving 20092										
1•4	Did your company do <u>any</u> of the following during 2008?Incur R&D expenses OR										
	 Perform R&D that was funded or paid for by others not owned by your company, such as: R&D performed under contract for another company R&D funded by a government grant 										
	Yes → Complete the rest of this survey beginning with Question 1•5										
	NOTE: If your company was either purchased or ceased operations between April 1 and December 31, 2008, complete the survey for the time period from January 1, 2008 to the date of purchase or the date your company ceased operations.										
	□ No → Skip to Section 6, page 49										

Business Codes

Do the business code(s) listed below reflect <u>all applicable codes</u> from the list on pages 8-9 in which your company operated worldwide during 2008?

Why are these codes needed?

The codes below are needed to report your sales for Question 1.8. They are also used in Section 2 and Section 4 to collect R&D information.

How did we decide on these codes for your company?

We selected the codes using payroll and receipts data contained in our database for your company's domestic establishments and research on your company's global businesses. The codes and descriptions are based on groups of industries from the North American Industry Classification System (NAICS) selected specifically for this form.

NOTE: If you have no business codes printed below, please refer to the list on pages 8-9 and write in the codes that apply to your company.

No → Draw a line through codes that are incorrect. As needed, enter additional codes and descriptions from pages 8 and 9 in the spaces provided.

Business Code (see pages 8-9)	Description

1-6 What was the amount of your company's worldwide net sales and operating revenues—the value of goods and services sold during the year, net of discounts, returns, and allowances—during 2008?

Include:

• Sales and operating revenues for discontinued operations

\$Bil.	Mil.	Thou.
	1 1	

Exclude:

- Non-operating income (i.e. dividends, interest)
- Excise, sales, and other revenue based taxes



Ho bu (1	ow much of the 2008 siness code listed o) Worldwide net sale	3 sales and op r amended or es and operat	perating page 6 ing reve	revenue of this enues re	form: ported in (Question '	1•6	
(2	Business Code (see page 6)	s and operation		(1) Worldwides and reve	e		(2) Domestic	
	(see page of		\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Tho
a.								
b.								
c.								
			1 1					
d.								
e.								
f.								
g.								
9.								
h.								
i.	Less eliminations—sale revenues that are elim							
	in order to consolidat	e the						
	business codes							
j.	Total							
			Total e	quals Que	estion 1-6	Total ed	quals Que	stion 1
								<u>.</u>
		ng did it take	to com	plete Se	ection 1?			Н

l .			
Busin	Business codes		ner Goods & Services
(used i	n Sections 1, 2, and 4)	71200	American and manufaction
		71300	Amusement, gambling, and recreation
Aerosp	pace & Defense	31500	industries Apparel manufacturing
33641	Aircraft manufacturing	33430	Audio and video equipment manufacturing
33642	Aircraft engine and engine parts manufacturing	81110	Automotive repair and maintenance
33643	Other aircraft parts and auxiliary equipment	31210	Beverage manufacturing
1	manufacturing	51520	Cable and other subscription programming
33644	Guided missiles, space vehicles, and parts	31320	(except Internet)
1	manufacturing	62440	Child day care services
33692	Military armored vehicle, tank, and tank	44800	Clothing and clothing accessories stores
1	components manufacturing	23600	Construction of buildings
33452	Search, detection, navigation, guidance,	53220	Consumer goods and general rental centers
1	aeronautical, and nautical system and	61100	Educational services
1	instruments manufacturing	33500	Electrical equipment, appliances, and
33660	Ship and boat building		components manufacturing
Autom	obiles, Motorcycles, & Components	45410	Electronic shopping and mail-order houses
		44300	Electronics and appliance stores
33610	Motor vehicles manufacturing	44500	Food and beverage stores
33620	Motor vehicle body and trailer manufacturing	31100	Food manufacturing
33630	Motor vehicle parts manufacturing	72200	Food services and drinking places
33691	Motorcycle, bicycle, and parts manufacturing	33700	Furniture and related products manufacturing
33699	All other transportation equipment	45200	General merchandise stores
1	manufacturing	51600	Internet publishing and broadcasting
Capital	l Goods	56160	Investigation, security, and services to
33430			buildings and dwellings
33330	Audio and video equipment manufacturing	31600	Leather and allied products manufacturing
33330	Commercial, service industry, temperature control, and airflow control machinery	51200	Motion picture and sound recording
1	manufacturing		(except Internet)
33312	Construction machinery manufacturing	44100	Motor vehicle and parts dealers
23600	Construction of buildings	51110	Newspaper, periodical, book, and directory
33360	Engine, turbine, and power transmission	81200	publishers (except internet)
	equipment manufacturing	01200	Personal care, death care, laundry, and other personal services
33200	Fabricated metal products manufacturing	51510	Radio and television broadcasting
33311	Farm machinery and equipment	31310	(except Internet)
1	manufacturing	81190	Repair and maintenance, except automotive
23700	Heavy and civil engineering construction	32591	Soap, cleaning compound, and toilet
33322	Industrial machinery manufacturing, except	0200.	preparations manufacturing
1	semiconductor machinery	62400	Social assistance (except child day care
33390	Metalworking and other general purpose		services)
	machinery manufacturing	31300	Textile mill products
33313	Mining machinery and equipment	31220	Tobacco manufacturing
00054	manufacturing	72100	Traveler accommodation services
33651	Railroad rolling stock manufacturing		
33660	Ship and boat building	Energy	
23800	Specialty trade contractors	21210	Coal mining
Comm	ercial and Professional Services	22110	Electric power generation, transmission,
	ing contract research)		and distribution
54120	Accounting, tax preparation, bookkeeping,	21100	Oil and gas extraction
34120	and payroll services	33313	Oil and gas field machinery and equipment
54180	Advertising and related services		manufacturing
54130	Architectural, engineering, and related services	32400	Petroleum and coal products manufacturing
56140	Business support services	48610	Pipeline transportation of crude oil, refined
53240	Commercial and industrial machinery		petroleum, and miscellaneous products,
00240	and equipment rental and leasing		except natural gas
54110	Legal services	56150	Travel arrangement and reservation services
54160	Management, scientific, and technical	Financi	ala
	consulting services	Financi	als
56190	Office administrative, facilities, employment,	52230	Activities related to credit intermediation
	and other support services	52420	Agencies, brokerages, and other insurance
32300	Printing and related support activities		related activities
56290	Remediation and other waste	52210	Depository credit intermediation
	management services	52500	Funds, trusts, and other financial vehicles
54170	Research & development services	52410	Insurance carriers
54140	Specialized design services	52100	Monetary authorities-central bank
56150	Travel arrangement and reservation services	52220	Nondepository credit intermediation



53100	Real estate	32592	Paint, adhesive, and other chemical
52300	Securities, commodity contracts, and other	32332	manufacturing
32300	financial investments and related activities	32200	Paper manufacturing
	inialicial investments and related activities	32530	Pesticide, fertilizer, and other agricultural
Health	Care	02000	chemical manufacturing
33451	Electromedical, electrotherapeutic and	32600	Plastics and rubber products manufacturing
00401	irradiation apparatus manufacturing	32512	Resin, synthetic rubber, and artificial
62210	General medical and surgical hospitals		synthetic fibers and filaments manufacturing
62160	Home health care services	32591	Soap, cleaning compound, and
32543	In-vitro diagnostic substances manufacturing		toilet preparations manufacturing
62150	Medical and diagnostic laboratories	21310	Support activities for solid
33910	Medical equipment and supplies manufacturing		mineral operations
62300	Nursing and residential care facilities	32100	Wood products manufacturing
62120	Offices of dentists and other health practitioners		
62110	Offices of physicians	Teleco	mmunication Service
62190	Outpatient care centers and other ambulatory	51750	Cable and other program distribution
	health care services	51740	Satellite telecommunications
32541	Pharmaceutical, medicinal, botanical, and	51710	Wired telecommunications carriers
1	biological products (except diagnostic)	51720	Wireless telecommunications carriers
	manufacturing		(except satellite)
62220	Psychiatric, substance abuse, and specialty	51790	Telecommunications services (not listed
F 4470	hospitals		elsewhere)
54170	Research & development services	Tranen	ortation
Inform	ation Technology - Goods and Services	_	
1	•	48100	Air transportation
33429	Communication equipment manufacturing,	53210	Automotive equipment rental and leasing
1	except broadcasting, wireless, and	49200	Couriers and messengers
F4150	telephone apparatus	48200 48700	Rail transportation Scenic and sightseeing transportation
54150 33410	Computer systems design and related services	48800	Support activities for transportation
33410	Computers and peripheral equipment manufacturing	48500	Transit and ground passenger transportation
51820	Data processing, hosting, and related services	48400	Truck transportation
33500	Electrical equipment, appliances, and	49300	Warehousing and storage
33300	components manufacturing	48300	Water transportation
51900	Information services (not elsewhere listed		
	in this category)	Utilitie	es
51810	Internet service providers and web	22110	Electric power generation, transmission,
	search portals	22110	and distribution
33460	Manufacturing and reproducing magnetic and	22120	Natural gas distribution
1	optical media manufacturing	56290	Remediation and other waste
33459	Measuring and control instruments		management services
	manufacturing (not listed elsewhere in	56210	Waste collection, treatment, and disposal
	this category)	22130	Water, sewage, and other systems
33422	Radio and television broadcasting and		
	wireless communications equipment	Busine	ss Codes Not Elsewhere Classified
00450	manufacturing	53300	Lessors of nonfinancial intangible assets
33452	Search, detection, navigation, guidance,	55100	Management of companies and enterprises
	aeronautical, and nautical system and instruments manufacturing	42300	Merchant wholesalers, durable goods
33440	Semiconductor and other electronic	42400	Merchant wholesalers, nondurable goods
33440	components manufacturing	33990	Miscellaneous manufacturing (not listed
33321	Semiconductor machinery manufacturing		elsewhere)
51120	Software	71200	Museums, historical sites, and similar
33421	Telephone apparatus manufacturing		institutions
00421	receptions apparatus manarastaring	45490	Nonstore retailers, except electronic
Materi	als		shopping and mail-order houses
		71100	Performing arts, spectator sports,
32511 32790	Basic chemicals manufacturing Cement, concrete, lime, gypsum, and other	F4400	and related industries
32/90	nonmetallic mineral product manufacturing	54190	Professional, scientific, and technical services
32710	Clay and glass products manufacturing	45000	(not listed elsewhere)
33150	Ferrous and nonferrous foundries	45990	Retail trade stores, including gasoline stations (not listed elsewhere)
33110	Iron and steel mills, ferroalloy, and	42500	Wholesale electronic markets and agents
55.10	steel product from purchased steel	42000	and brokers
21220	Metal ore mining		UIIG DIONGIS
33130	Nonferrous metals production and processing		
21230	Nonmetallic mineral mining and quarrying		
1	5 1 7 5		



11018108

R&D Paid for by Your Company (R&D Expense)

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.

SECTION 2 – R&D Paid for by Your Company (R&D Expense)

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.

What is the reporting unit?

The reporting unit is your company, including all subsidiaries and divisions. Include operations of subsidiary companies where there is more than 50 percent ownership. Also, include data for discontinued operations.

NOTE: If your company is owned by a non-U.S. company, do not include data for your foreign owner or for any other affiliated companies not owned by your company.

What does "R&D performed by your company" mean?

This section uses two different concepts to collect information about your company's R&D: an accounting concept, R&D expense, and a physical concept, R&D performed by your company. The amount of R&D reported using these two concepts may differ.

Report <u>R&D expense</u> according to accounting definitions used by your company. For more information refer to Financial Accounting Standards Board (FASB) Statement of Accounting Standards No. 2 (Accounting for Research and Development Costs). For this survey, report R&D expense even if the amount is not considered material to your company.

R&D performed by your company includes all costs for R&D performed by your company's full-time, part-time, and temporary employees. It excludes costs for R&D performed by others not owned by your company, such as contract research organizations, universities, and federal laboratories.

What do the terms "worldwide" and "domestic" mean?

The term "worldwide" refers to all geographic locations, including the United States. The term "domestic" refers to the 50 United States and the District of Columbia only.

How should dollar amounts be reported?

Report all dollar amounts rounded to the nearest thousand.

	\$Bil.		Mil		Т	hοι	ı.
Example: If figure is \$179,125,628.00 report:		1	7	9	1	2	6

Are estimates acceptable?

Yes, estimates are acceptable. Please report all items to the best of your ability.

How should I answer a question that does not apply to my company? Enter "0" if a question or category does not apply to your company.

What time period should be reported?

Report data for calendar year 2008, if possible, or for your company's fiscal year ending between April 2008 and March 2009.

NOTE: If your company was either purchased or ceased operations between April 1 and December 31, 2008, complete the survey for the time period from January 1, 2008 to the date of purchase or the date your company ceased operations.



2•1	What was the total <u>worldwide</u> R&D expense for your company (including all domestic R&D expenses) in 2008?			
	 Include: R&D expenses for all foreign and domestic subsidiaries and divisions owned by your company R&D services purchased from others, including medical clinical trials R&D in social sciences—the application of scientific methods to the study of the human aspects of the world, including such disciplines as economics and psychology R&D expenses for discontinued operations 	\$Bil.	Mil.	Thou.
	 Exclude: R&D costs paid for by others not owned by your company (these costs are reported in Section 4), such as: Costs for customer-sponsored R&D Costs associated with contract services your company provides to others Costs for R&D funded by government grants/contracts Costs reimbursed by business partners, such as through cost-sharing agreements R&D costs paid for by your foreign owner, if your company is foreign-owned Capital expenditures for R&D (report domestic capital expenditures for R&D in Question 2·15) Market and advertising research R&D from acquired companies prior to acquisition (in-process R&D) Costs for routine product testing, quality control, and technical services unless they are an integral part of an R&D project Independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on government contracts (these costs are reported in Section 4) 			
2•2	Was the amount entered in Question 2•1 greater than zero? ☐ Yes → Continue with Question 2•3 ☐ No → Skip to Section 4			
2•3	How much of the 2008 worldwide R&D expense reported in Question 2•1 was for R&D performed by your company and how much was for R&D performed by others not owned by your company?			
		\$Bil.	Mil.	Thou.
	 a. R&D performed by your company			
	b. R&D performed by others not owned by your company, such as contract research organizations, universities, and government labs			
	 Include: If your company is foreign-owned, include your R&D expense that paid for R&D performed by your foreign owner 			
	c. Total (equals Question 2·1)	. 🗀		

	How much of the 2 Question 2•1 was f of employees exclu	or gros	ss annua	al payroll	-wages and salaries	\$Bil.	Mil.	Thou.
2•5	How much of the w by others not owne 2•3, line b, was per	d by y	our com	npany, re				
	organizations?	Tormed	a by the	tollowir	ig types of	\$Bil.	Mil.	Thou.
	a. Companies located	d <u>inside</u>	the Uni	ted States				
	b. Companies located	d <u>outsid</u>	<u>le</u> the Ur	nited State	9S			
	c. U.S. federal gover	nment a	agencies	or labora	tories			
	d. U.S. state and loca	al gover	nment a	gencies o	r laboratories			
	e. Foreign governme	nt agen	icies or I	aboratorie	es			
	f. Universities, colleges, and academic researchers (including principal investigators) located inside the United States							
		Universities, colleges, and academic researchers (including principal investigators) located <u>outside</u> the United States						
	h. All other organizations							
	i. Total R&D perfo	rmed b	y other	s (equals	Question 2·3, line b)			
2•6	How much of the R line a, was perform				company in 2008 repo	orted i	n Questi	on 2•3,
	R&D performed by y company performed R&D		npany by	country	should reflect the actual loc	ation wl	nere your	
		\$Bil.	Mil.	Thou.		\$Bil.	Mil.	Thou.
	a. United States (domestic)				h. Ireland			
					II. Ireiana			
	b. Puerto Rico				i. Israel			
	b. Puerto Rico c. Canada							
					i. Israel			
	c. Canada				i. Israel			
	c. Canadad. China				i. Israelj. Italyk. Japan			
	c. Canada d. China e. France				i. Israel j. Italy k. Japan I. Russia			

2•6	(Continued)			
	\$Bil. Mil. Thou.	\$Bil.	Mil.	Thou.
	a. Curadan			
	o. Sweden			
	r. Total (equals Question 2·3,		T T	
	p. United Kingdom line a)			
2•7	How much of the domestic R&D performed by your company in 2008 reported in Question 2•6, line a, was paid for by your	\$Bil.	Mil.	Thou.
	company's foreign operations or foreign subsidiaries?			
2•8	How much of the domestic R&D performed by your company reported in Question 2•6, line a, was for the following types			
	of costs?	¢D:I	N/III	Thou
	a. Gross annual payroll-wages and salaries of R&D employees	\$Bil.	Mil.	Thou.
	and officers excluding fringe benefits			
			1 1	
	b. Employer's cost for fringe benefits			
	Include: • Disability benefits			
	 Life and medical insurance Paid holidays, time off benefits, vacation, annual, sick, and maternity 			
	leave Retirement benefits, pension, and social security contributions			
	• Hetherit beliefits, perision, and social security contributions			
	c. Stock-based compensation			
			T T	
	d. Temporary staffing and leased employees			
	Include:Costs paid to Professional Employer Organizations (PEOs) and staffing			
	agencies for personnel			
	All charges for payroll, benefits, and services			
	e. Expensed equipment			
			1 1	
	f. Materials and supplies			
	a laces and vental naves anto			
	g. Lease and rental payments			
	h. Depreciation and amortization on R&D property and equipment			
			T	
	i. All other costs			
	: Total (aguala Quantina 26 line a)			
	j. Total (equals Question 2-6, line a)			

	\$Bil.	Mil.	Thou.		\$Bil.	Mil.	Т
Alabama				Massachusetts			
Alaska				Michigan			
Arizona				Minnesota			
Arkansas				Mississippi			
California				Missouri			
Colorado				Montana			
Connecticut				Nebraska			
Delaware				Nevada			
District of Columbia				New Hampshire			
Florida				New Jersey			
Georgia				New Mexico			
Hawaii				New York			
ldaho				North Carolina			
Illinois				North Dakota			
Indiana				Ohio			
lowa				Oklahoma			
Kansas				Oregon			
Kentucky				Pennsylvania			
·				·			
Louisiana				Rhode Island			
Maine				South Carolina			
Maryland		· '		South Dakota		· '	

Tennessee Washington West Virginia Utah Wisconsin Wyoming	Washington
Texas West Virginia Utah Wisconsin Vermont Wyoming Total (equals Question 2·6, line a) At what domestic location did your company perform the largest dollar amount of R&D in 2008? Address 1 Address 2	Washington
Texas West Virginia Wisconsin Wyoming Total (equals Question 2-6, line a) At what domestic location did your company perform the largest dollar amount of R&D in 2008? Address 1 Address 2	Wisconsin
Texas	Wisconsin
Utah	Wyoming Total (equals Question 2.6, line a) pany perform the largest dollar amount of
Vermont	Wyoming
Virginia	Total (equals Question 2.6, line a) pany perform the largest dollar amount of
Virginia	Total (equals Question 2.6, line a) pany perform the largest dollar amount of
Ouestion 2.6, line a) At what domestic location did your company perform the largest dollar amount of R&D in 2008? Address 1 Address 2	Question 2·6, line a) pany perform the largest dollar amount of
R&D in 2008? Address 1 Address 2	
R&D in 2008? Address 1 Address 2	
Address 2	State ZIP
	State ZIP
	State ZIP
	State ZIP
City State ZIP	State ZIP
City State ZIP	State ZIP
1 How much of the domestic R&D performed by your \$Bil. Mil.	ed by your \$Bil. Mil. Thou.
company reported in Question 2.6, line a, was from the	, was from the
location identified in Question 2•10?	

R&D b	y business	code
-------	------------	------

How much of the <u>worldwide R&D expense</u> reported in Question 2•1 was for each <u>business code</u> listed or amended on page 6 of this form?

Allocate R&D that is applicable to more than one business code on a reasonable basis. Allocation in proportion to operating revenues is acceptable unless some alternative allocation basis is more appropriate.

	Business Code		World	lwide R&D	expense
	(see page 6)		\$Bil.	Mil.	Thou.
a.					
b.					
c.					
d.					
e.					
f.					
g.					
h.					
	Total (equals 0	Duestion 2.1)			

2-13 How much of the worldwide R&D expense reported in Question 2-1 was a domestic R&D expense-R&D paid for by your company's domestic operations?

\$Bil.	Mil.	Thou.



Business Co				(1) Domest R&D expe			(2) stic R&D your con	
(see page			\$Bil.	Mil.	Thou.	\$Bil.	Mil.	
								Ħ
	ш		🖳					
								L
								Г
								L
								Ħ
	ш		🖳					L
								_ _
			Total	equals Qu	estion 2·13	Total e	equals Que line a	98
much o	f vour comr	oany's dome	etic canita	l avnand	iturae	\$Bil.	Mil.	Τ
	for R&D op		Stic Capita	СХРСПА	<u>itures</u>			Ī
								_
		stic capital e						
erations re egories?	eported in C	Question 2•1	5 was for t	he follo	wing	\$Bil.	Mil.	
tructures								
quipment								
oitali-ad	coftwore						1 T	
pitalized	sultware							T
other ca	apital expend	litures for R&	D operations	3				
al dom	estic capita	al expenditu	res for R&D					T

NOT	: The total for this question is the 2009 proj	ection of what is rep	orted i	n questio	n 2·1.
			\$Bil.	Mil.	Thou.
a. R&	D performed by your company at domestic lo	ocations			
b. R&	D performed by your company at foreign loca	ations			
suc	D performed by others not owned by your contract research organizations, universyernment labs	ities, and		1 1	
•	clude: your company is foreign-owned, include your R& or R&D performed by your foreign owner	ιD expense that paid			
d. To	tal projected worldwide R&D expense fo	r 2009			
eporting	information				
18 Is the	information in this section reported on a	a calendar year ba	sis?		
	es → Continue				
1	Yes → Continue No → Enter time period covered below: (MM) (YYYY) (MM) From To	(YYYY) 			
	No → Enter time period covered below: (MM) (YYYY) (MM)				Hou
19 Appre	No → Enter time period covered below: (MM) (YYYY) (MM) From To	ete Section 2?	ta for t	his sect	
19 Appre	From (MM) (YYYY) (MM) From To Description of the persons of the	ete Section 2?	ta for t	his sect	
19 Appro	From (MM) (YYYY) (MM) From To Description of the persons of the	ete Section 2?	ta for t	his sect	
19 Appro	From (MM) (YYYY) (MM) From To Description of the persons of the	ete Section 2?	ta for t	his sect	
19 Appro	From (MM) (YYYY) (MM) From To Description of the persons of the	ete Section 2?	ta for t	his sect	
19 Appro	From (MM) (YYYY) (MM) From To Description of the persons of the	ete Section 2?	ta for t	his sect	Hour
19 Appro	From (MM) (YYYY) (MM) From To Description of the persons of the	ete Section 2?	ta for t	his sect	
19 Appro	From (MM) (YYYY) (MM) From To Description of the persons of the	ete Section 2?	ta for t	his sect	

Management and Strategy of R&D Expense

Who should answer this section?

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

In order to complete this section, you will need to copy your company's answers from Questions 2·1, 2·4, and 2·6 in Section 2 to Questions 3·1, 3·2, and 3·3.



SECTION 3 – Management and Strategy of R&D Expense

What does this section cover?

This section requests information about the characteristics of the R&D expenses your company reported in Section 2. This section requests information about your company's worldwide consolidated R&D and R&D your company performs in the domestic United States. Similar information about R&D funded or paid for by others not owned by your company, such as costs for customer-sponsored R&D and R&D funded by government grants/contracts, is requested in Section 4.

What is the reporting unit?

The reporting unit is your company, including all subsidiaries and divisions. Include operations of subsidiary companies where there is more than 50 percent ownership. Also, include data for discontinued operations.

NOTE: If your company is owned by a non-U.S. company, do not include data for your foreign owner or for any other affiliated companies not owned by your company.

What does "R&D performed by your company" mean?

This section uses two different concepts to collect information about your company's R&D: an accounting concept, R&D expense, and a physical concept, R&D performed by your company. The amount of R&D reported using these two concepts may differ.

R&D expense is based on accounting definitions used by your company. For more information refer to Financial Accounting Standards Board (FASB) Statement of Accounting Standards No. 2 (Accounting for Research and Development Costs). For this survey, report R&D expense even if the amount is not considered material to your company.

R&D performed by your company includes all costs for R&D performed by your company's full-time, part-time, and temporary employees. It excludes costs for R&D performed by others not owned by your company, such as contract research organizations, universities, and federal laboratories.

What do the terms "worldwide" and "domestic" mean?

The term "worldwide" refers to all geographic locations, including the United States. The term "domestic" refers to the 50 United States and the District of Columbia only.

How should dollar amounts be reported?

Report all dollar amounts rounded to the nearest thousand.

	\$Bil.		Mil		Т	hou	١.
Example: If figure is \$179,125,628.00 report:		1	7	9	1	2	6

Are estimates acceptable?

Yes, estimates are acceptable. Please report all items to the best of your ability.

How should I answer a question that does not apply to my company?

Enter "0" if a question or category does not apply to your company.

What time period should be reported?

Report data for calendar year 2008, if possible, or for your company's fiscal year ending between April 2008 and March 2009.

NOTE: If your company was either purchased or ceased operations between April 1 and December 31, 2008, complete the survey for the time period from January 1, 2008 to the date of purchase or the date your company ceased operations.



3•1	Copy the amount reported in Question 2•1-your company's	\$Bil.	Mil.	Thou.
	worldwide R&D expense in 2008.			
3•2	Copy the amount reported in Question 2•6, line a-R&D	\$Bil.	Mil.	Thou.
	expense performed by your company in the domestic United States in 2008.			
3•3	Copy the amount reported in Question 2•3, line b-2008	\$Bil.	Mil.	Thou.
	R&D performed by others not owned by your company, such as contract research organizations, universities, or			
	government labs.			
Wor	Idwide R&D expense			
3•4	What percentage of the worldwide R&D expense in 2008 reporte	d in		
204	Question 3•1 was directed toward <u>business areas or product line</u> which your company had <u>no revenues</u> before 2008?			
	Example: Company A is an automobile manufacturer. In 2008, it began R&D of			Percent
	company's first motorcycle. Because Company A had no previous revenues for motorcycles, it is a new business area for the company. The expense for this F			%
	included in the calculation for this question.	100 13		
3•5	What percentage of the worldwide R&D expense in 2008 reporte Question 3•1 involved <u>science/technology</u> that your company ha used in projects before 2008?			
	Example: Company B is an automobile manufacturer. In 2008, it began to exp	lore usin	a \Box	Percent
	hydrogen fuel cells in its vehicles. Because Company B had not used this technology	nology	9 _	%
	before 2008, it is new for the company. The expense for this R&D is included in calculation for this question.	n the		70
3•6	What percentage of the worldwide R&D expense in 2008 reported			
	Question 3•1 was both directed toward business areas or production which your company had no revenues before 2008 and involve			
	science/technology that had not been used by your company in o			
	projects before 2008?			
	Example: Company C is an automobile manufacturer. In 2008, it began a project develop the company's first motorcycle. At the same time, C begins to explore			Percent
	hydrogen fuel cell technology in its vehicles-including motorcycles. Because m	otorcycle	Э	%
	manufacturing is a new business area for C and the company had no experien hydrogen fuel cell technology before 2008, it would include the hydrogen fuel			
	related to its motorcycle project in the calculation for this question.			
2.7	What nevertees of the worldwide DOD amount in 2000 ments	al !ss		
307	What percentage of the worldwide R&D expense in 2008 reporte Question 3•1 was for R&D in science/technology new to the mar			
	(i.e. first-to-market) in which your company operates?			
	Exclude			Percent
	 R&D to improve upon, replicate, or adopt science/technology currently in use market(s) in which your company operates 	in the		%

Example: Company D manufactures cookware. In 2008, it devotes 10% of its R&D expense to exploring the potential use in its products of a heat-conducting material currently used only by the aerospace industry. The remainder of D's R&D is focused on improving products and technology already used in the cookware market. Company D



reports 10% for this question.

Wor	Idwide R&D agreements			
3•8	What percentage of the <u>worldwide R&D expense</u> in 2008 reported in Question 3•1 was for <u>R&D agreements</u> ?			
	R&D agreements involve two or more parties pooling resources and expertise to undertake R&D and share in any resulting intellectual property. R&D agreements involv shared risk and shared reward.	e	Percen	%
3•9	What percentage of the worldwide R&D expense in 2008 reported in Question 3•1 was for R&D agreements with <u>for-profit companies</u> ?		Percen	%
3•10	What percentage of the worldwide R&D expense in 2008 reported in Question 3•1 was for R&D agreements with U.S. federal government agencies or laboratories?		Percen	%
3•11	What percentage of the worldwide R&D expense in 2008 reported in Question 3•1 was for R&D agreements with universities, colleges, and academic researchers, including individual principal investigators?		Percen	%
3•12	What percentage of the worldwide R&D expense in 2008 reported in Question 3•1 was for R&D agreements with nonprofit organizations other than universities and colleges?	E	Percen	%
3•13	In 2008, how many <u>new</u> R&D agreements did your company enter into?		Num	ber
3•14	Did the new R&D agreements reported in Question 3•13 involve agreem following types of organizations?	nents v	vith tl	he
	a. For-profit companies located <u>inside</u> the United States	Yes		No
	a. For-profit companies located <u>inside</u> the United States	Yes Yes		No No
	b. For-profit companies located <u>outside</u> the United States			
	b. For-profit companies located <u>outside</u> the United States	Yes		No
	b. For-profit companies located <u>outside</u> the United States	Yes Yes		No No
3•15	b. For-profit companies located <u>outside</u> the United States	Yes Yes Yes Yes		No No No
3•15	b. For-profit companies located <u>outside</u> the United States	Yes Yes Yes Yes		No No No
3•15	b. For-profit companies located <u>outside</u> the United States	Yes Yes Yes Yes		No No No
3•15	b. For-profit companies located <u>outside</u> the United States	Yes Yes Yes Yes Yes		No No No



Characteristics of domestic R&D performed by your company that was part of your R&D expense

For questions 3•16 through 3•39, the reported amounts exclude R&D funded or paid by others, which is reported in Section 4.

3•16		hat percentage of the domestic R&D performed by your company 2008 reported in Question 3•2 was for the following categories?		Perc		
	a.	Research-planned, systematic pursuit of new knowledge or understanding				%
	b.	<u>Development</u> –systematic use of research and practical experience to produce new or significantly improved goods, services, or processes				%
	c.	Total	1	0	0	%
3•17		you reported any research in Question 3•16, line a, what percentage of at research was for the following categories?		Perc	ent	
	a.	Applied research-activity aimed at solving a specific problem or meeting a specific commercial objective				%
	b.	Basic research–activity aimed at acquiring new knowledge or understanding without specific immediate commercial application or use				%
			1	^	^	0/

What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 was directed toward <u>business areas or product lines</u> in which your company had no revenues before 2008?

c. Total.....

Example: Company E is an automobile manufacturer. In 2008, it began R&D at its U.S. facilities on the company's first motorcycle. Because Company E had no previous revenues for motorcycles, it is a new business area for the company. The costs for this R&D are included in the calculation for this question.

Percent	
	%

What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 involved science/technology that your company had not used in projects before 2008?

Example: Company F is an automobile manufacturer. In 2008, it began to explore using hydrogen fuel cells in its vehicles at its U.S. R&D facility. Because Company F had not used this technology before 2008, it is new for the company. The costs for this R&D are included in the calculation for this question.

Percent	
	%

What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 was both directed toward business areas or product lines in which your company had no revenues before 2008 and involved science/technology that had not been used by your company in other projects before 2008?

Example: Company G is an automobile manufacturer. In 2008, it began a project to develop the company's first motorcycle. At the same time, G begins to explore using hydrogen fuel cell technology in its vehicles–including motorcycles–at its U.S. R&D facility. Because motorcycle manufacturing is a new business area for G and the company had no experience with hydrogen fuel cell technology before 2008, it would include the hydrogen fuel cell R&D related to its motorcycle project in the calculation for this question.

Percent	
	%

Percent %
у
Percent %
Percent %
Percent %
Percent %
Percent %
Percent %
Percent %
Percent %



3•30	What percentage of the domestic R&D performed by your company in	Percent
	2008 reported in Question 3•2 was for medical clinical trials?	%
		Percent
3•31	What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 was for the production of prototypes?	%
3•32	What percentage of the domestic R&D performed by your company in	Percent
	2008 reported in Question 3•2 was for the operation of pilot plants?	%
3•33	What percentage of the domestic R&D performed by your company in	Percent
	2008 reported in Question 3•2 was for biotechnology-the use of cellular and bio-molecular processes to solve problems or make useful	%
	products?	
3•34	What percentage of the domestic R&D performed by your company in	Percent
	2008 reported in Question 3•2 was for <u>nanotechnology</u> -science and technology involving work at the nanometer scale?	%
0.05	Miles and the second se	
3•35	What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 was for social sciences—the application of	Percent
	scientific methods to the study of human aspects of the world, including such disciplines as economics and psychology?	%
R&D	performed by others	
3•36	What percentage of the R&D performed by others not owned by your company reported in Question 3•3 was for the following categories?	Percent
	a. Research-planned, systematic pursuit of new knowledge or understanding	%
	b. <u>Development</u> -systematic use of research and practical experience to produce	%
	new or significantly improved goods, services, or processes	
	c. Total	1 0 0 %
3•37		1 0 0 %
3•37	c. Total	1 0 0 %
3•37	If you reported any research in Question 3•36, line a, what percentage of that research was for the following categories? a. Applied research—activity aimed at solving a specific problem or meeting a	
3•37	If you reported any research in Question 3•36, line a, what percentage of that research was for the following categories? a. Applied research—activity aimed at solving a specific problem or meeting a specific commercial objective	Percent %
3•37	If you reported any research in Question 3•36, line a, what percentage of that research was for the following categories? a. Applied research—activity aimed at solving a specific problem or meeting a	Percent
3•37	If you reported any research in Question 3•36, line a, what percentage of that research was for the following categories? a. Applied research—activity aimed at solving a specific problem or meeting a specific commercial objective	Percent %
3•37	If you reported any research in Question 3•36, line a, what percentage of that research was for the following categories? a. Applied research—activity aimed at solving a specific problem or meeting a specific commercial objective	Percent %
3•37	If you reported any research in Question 3•36, line a, what percentage of that research was for the following categories? a. Applied research—activity aimed at solving a specific problem or meeting a specific commercial objective	Percent % % 1 0 0 %
3•37	If you reported any research in Question 3•36, line a, what percentage of that research was for the following categories? a. Applied research—activity aimed at solving a specific problem or meeting a specific commercial objective	Percent
3•37 3•38	If you reported any research in Question 3•36, line a, what percentage of that research was for the following categories? a. Applied research—activity aimed at solving a specific problem or meeting a specific commercial objective	Percent Percent Percent Percent
3•37 3•38	If you reported any research in Question 3•36, line a, what percentage of that research was for the following categories? a. Applied research—activity aimed at solving a specific problem or meeting a specific commercial objective b. Basic research—activity aimed at acquiring new knowledge or understanding without specific immediate commercial application or use c. Total. What percentage of the R&D performed by others reported in Question 3•3 was for medical clinical trials?	Percent



Activiti	es with academia			
	your company perform any of the following activities with universelections academic faculty in 2008?	ersities	s, studer	nts,
a. I	Hired academic consultants for short-term projects in science and engineering	П	es 🗆	N
b. I	Hosted student interns pursuing undergraduate or graduate degrees in science or engineering for at least one month	П	es \square	N
c. I	Hosted post-doctoral fellows in science or engineering for at east one month	П	es \square	N
d. \$	Scientists or engineers from your company that served as visiting scientists or engineers at a college or university for at least one month	П	es 🗆	N
e. I	Made monetary gifts to universities or colleges that were restricted so supporting R&D	П	es 🗆	N
Compar	ny characteristics			
3•41 We	re the following statements true for your company in 2008?			
	This company has been in business for fewer than 5 years as of December 31, 2008	П	es 🗆	N
	This company's primary mission in 2008 was to commercialize science/technology discovered or developed by academic researchers	□ Y	es 🗆	N
c.	This company received venture capital funding in 2008	П	es	N
Reporti	ng information			
3•42 Is t	he information in this section reported on a calendar year basis?			
	Yes → Continue			
	No → Enter time period covered below: (MM) (YYYY) (MM) (YYYY)			
	From To To			
3•43 Ap	proximately how long did it take to complete Section 3?		F	lour
3•44 Ple	ase list the names and titles of the persons who provided data fo	or this s	section.	
Name	Title			



R&D Funded or 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 R&D activities that are funded or paid for by others (funded R&D), including R&D paid for by customers and R&D supported by government contracts and grants should complete this section.

Please answer Questions 4.1 to 4.3 to see if your company should fill out this section.



SECTION 4 - R&D Funded or Paid for by Others

What does this section cover?

This section requests information about your company's R&D activities that are funded or paid for by others not owned by your company (funded R&D). R&D reported in Section 2 should not be included in responses to this section.

What is the reporting unit?

The reporting unit is your company, including all subsidiaries and divisions. Include operations of subsidiary companies where there is more than 50 percent ownership. Also, include data for discontinued operations.

NOTE: If your company is owned by a non-U.S. company, you should report the cost of R&D reimbursed by both your foreign owner and other affiliated companies not owned by your company in this section.

What is funded R&D?

Funded R&D is R&D your company performs that is funded or paid for by others not owned by your company. Examples of funded R&D include R&D performed under contract for a customer, R&D supported by a government grant, and R&D that is performed under a reimbursable agreement with business partners.

Because the costs for this work are not paid for by your company, they are not accounted for as R&D expenses, even though the nature of the work may be identical to other activities that are accounted for as R&D expenses by your company.

What do the terms "worldwide" and "domestic" mean?

The term "worldwide" refers to all geographic locations, including the United States. The term "domestic" refers to the 50 United States and the District of Columbia only.

How should dollar amounts be reported?

Report all dollar amounts rounded to the nearest thousand.

	\$Bil.		Mil		Т	hou	۱.
Example: If figure is \$179,125,628.00 report:		1	7	9	1	2	6

Are estimates acceptable?

Yes, estimates are acceptable. Please report all items to the best of your ability.

How should I answer a question that does not apply to my company?

Enter "0" if a question or category does not apply to your company.

What time period should be reported?

Report data for calendar year 2008, if possible, or for your company's fiscal year ending between April 2008 and March 2009.

NOTE: If your company was either purchased or ceased operations between April 1 and December 31, 2008, complete the survey for the time period from January 1, 2008 to the date of purchase or the date your company ceased operations.



Mil.

Thou.

\$Bil.

Worldwide R&D	performed by	vour company
Trondition nas	portormou by	your company

4•1	What were your company's total worldwide costs in 2008 for
	R&D that was funded or paid for by others not owned by your
	company?

Include:

- Cost of sales and indirect costs, such as overhead for contract R&D services provided to others not owned by your company
- R&D costs paid for by your foreign owner, if your company is foreign-owned
- Costs for R&D supported by grants from government agencies or private foundations
- Costs paid for by others for the development, production, and testing of prototypes prior to their introduction to the market
- Costs paid for by others for phase I III medical clinical trials of medical products
- Independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on government contracts
- Costs reimbursed by business partners, such as through cost-sharing agreements

Exclude:

- Costs accounted for as R&D expenses by your company (reported in Section 2)
- Payments in excess of the actual cost of the R&D (such as profits or fees)
- Costs for routine product testing, quality control, and technical services unless they are an integral part of an R&D project
- Costs for routine testing of products currently on the market
- Costs for phase IV medical clinical trials or other post-marketing testing performed for medical products
- Costs for R&D performed by FFRDCs (Federally Funded Research and Development Centers) your company administers
- Bid and proposal (B&P) costs

4•2	How much of the 2008 worldwide costs reported in Question
	4•1 for R&D that was funded or paid for by others not owned
	by your company was for R&D performed by your company
	and how much was for R&D performed by others not owned
	by your company, such as subcontractors or subgrantees?

		\$Bil.	Mil.	Thou
a.	R&D performed by your company			
	 Include: All costs for R&D performed by your company's full-time, part-time, and temporary employees 			
b.	R&D performed by others not owned by your company, such as subcontractors or subgrantees			
c.	Total (equals Question 4·1)			

4•3	Was	the amount entered in Question 4•2, line a, greater than zero?
		Yes → Continue with Question 4•4

No → Skip to Section 5



₹	t
2	2
C	5
-	4
Ċ	5
T	1
7	7

	\$Bil.	Mil.	Thou.		\$Bil.	Mil.	-
a. United States	7-111				7-111		
(domestic)				j. Italy			
							Т
b. Puerto Rico				k. Japan			
				·			Т
c. Canada				I. Russia			
d. China				m. Singapore			
u. Cilila				iii. Oiligapoi c			
- F				Courtle Manne			
e. France				n. South Korea			
. Germany				o. Sweden			L
յ. India				p. United Kingdom			
ı. Ireland				q. All other			
				r. Total (equals			
. Israel				Question 4.2,			
				line a)			
How much of the	domesti Questic	ic R&D	performe	any that was fund d by your company the s for each <u>business c</u>	at was	funded	by
How much of the o others reported in on page 6 of this f Allocate R&D that	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company th	at was ode list	funded ted or an only only only only only only only onl	b _y
How much of the others reported in on page 6 of this factor and the control of th	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	at was ode list	funded ted or and telebrasis.	by me
How much of the others reported in on page 6 of this factorial Allocation in proport more appropriate.	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	at was ode list	funded ted or and telebrasis.	by me
How much of the others reported in on page 6 of this 1 Allocate R&D that Allocation in proport more appropriate. Business Code (see page 6)	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	ode list	funded ted or and tel basis. allocation	by me
How much of the others reported in on page 6 of this factor of the control of the	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	ode list	funded ted or and tel basis. allocation	by me
How much of the others reported in on page 6 of this fallocate R&D that Allocation in proport more appropriate. Business Code (see page 6)	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	ode list	funded ted or and tel basis. allocation	by me
How much of the others reported in on page 6 of this fallocate R&D that Allocation in proport more appropriate. Business Code (see page 6)	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	ode list	funded ted or and tel basis. allocation	by me
How much of the others reported in page 6 of this fallocate R&D that Allocation in proport more appropriate. Business Code (see page 6)	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	ode list	funded ted or and tel basis. allocation	by me
How much of the others reported in on page 6 of this factorial in proport more appropriate. Business Code (see page 6)	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	ode list	funded ted or and tel basis. allocation	by me
How much of the others reported in on page 6 of this factor of the facto	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	ode list	funded ted or and tel basis. allocation	by me
How much of the others reported in on page 6 of this factorial Allocation in proport more appropriate. Business Code (see page 6) a. b.	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	ode list	funded ted or and tel basis. allocation	by me
How much of the others reported in on page 6 of this fallocate R&D that Allocation in proport more appropriate. Business Code (see page 6)	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	ode list	funded ted or and tel basis. allocation	by me
How much of the others reported in on page 6 of this factor of the facto	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	ode list	funded ted or and tel basis. allocation	by me
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How much of the others reported in on page 6 of this factorial Allocation in proport more appropriate. Business Code (see page 6) a. b. c. d.	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	ode list	funded ted or and tel basis. allocation	by me
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How much of the others reported in page 6 of this factorial and allocation in proport more appropriate. Business Code (see page 6)	domesti Questic form? is applic	ic R&D on 4•4, cable to r	performe line a, wa more than	d by your company the solution of the solution	ode list	funded ted or and tel basis. allocation	by me



4•5	(Continued)			
	Business Code (see page 6)			
	(see page o)	\$Bil.	Mil.	Thou.
	h			
	i. Total (equals Question 4-4, line a)			
4•6	How much of the domestic R&D performed by your company that was funded by others reported in Question 4•4, line a, was for the following types of costs?			
		\$Bil.	Mil.	Thou.
	a. Gross annual payroll–wages and salaries of R&D employees and officers excluding fringe benefits			
	b. Employer's cost for fringe benefits			
	 Include: Disability benefits Life and medical insurance Paid holidays, time off benefits, vacation, annual, sick, and maternity leave Retirement benefits, pension, and social security contributions 			
	c. Stock-based compensation			
	d. Temporary staffing and leased employees			
	 Include: Costs paid to Professional Employer Organizations (PEOs) and staffing agencies for personnel All charges for payroll, benefits, and services 			
	e. Expensed equipment			
	f. Materials and supplies			
	g. Lease and rental payments			
	h. Depreciation and amortization on R&D property and equipment			
	i. All other costs			
	j. Total (equals Question 4·4, line a)			



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a. Contracts (include direct or prime contracts and subcontracts) b. Grants, reimbursements, and all other agreements c. Total (equals Question 4-4, line a) How much of the domestic R&D performed by your company that was funded by others reported in Question 4-4, line a, was funded by each of the following? Include If your company K is a car manufacturer and Company L is a glass manufacturer. In 2008, Company K is awarded a U.S. federal government contract to develop a new type of armored car. Company K performs some of the R&D itself and subcontracts the development of the car's bullety glass windshield to Company L Both Company K and Company L would include their R&D costs for this project in the calculation for line c of this question. SBill. Mill. a. Other companies located inside the United States. b. Other companies located outside the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories f. All other organizations inside the United States. g. All other organizations located outside the United States.		How much of the domestic R&D performed by your company that was funded by others reported in Question 4•4, line a, was performed under each of the following types of agreements?			
b. Grants, reimbursements, and all other agreements c. Total (equals Question 4-4, line a) How much of the domestic R&D performed by your company that was funded by others reported in Question 4-4, line a, was funded by each of the following? Include If your company is a subcontractor or subgrantee, report the original source of funding Example: Company K is a car manufacturer and Company L is a glass manufacturer. In 2008, Company K is awarded a U.S. federal government contract to develop a new type of armored car. Company K performs some of the R&D itself and subcontracts the development of the car's bullety glass windshield to Company L. Both Company K and Company L would include their R&D costs for this project in the calculation for line c of this question. \$\frac{\\$\\$\Bil\\$\]\}{\\$\Bil\}\\$\ \frac{\\$\Bil\}{\Bil\}\\$\ \frac{\Bil\}{\Bil\}\\$\ \frac{\Bil\}{\Bil\}\\$\ \frac{\Bil\}{\Bil\}\\$\ \frac{\Bil\}{\Bil\}\\$\ \\ \frac{\Bil\}{\Bil\}\\$\ \\ \frac{\Bil\}{\Bil\}\\$\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		· · · · · · · · · · · · · · · · · · ·	\$Bil.	Mil.	Thou.
C. Total (equals Question 4-4, line a) How much of the domestic R&D performed by your company that was funded by others reported in Question 4-4, line a, was funded by each of the following? Include If your company is a subcontractor or subgrantee, report the original source of funding Example: Company K is a car manufacturer and Company L is a glass manufacturer. In 2008, Company K is awarded a U.S. federal government contract to develop a new type of armored car. Company K performs some of the R&D itself and subcontracts the development of the car's bulletp glass windshield to Company L. Both Company K and Company L would include their R&D costs for this project in the calculation for line c of this question. \$\frac{\\$\\$\Beta\Bil\}{\}\] a. Other companies located inside the United States. b. Other companies located outside the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories f. All other organizations inside the United States.		a. Contracts (include direct or prime contracts and subcontracts)			
How much of the domestic R&D performed by your company that was funded by others reported in Question 4+4, line a, was funded by each of the following? Include Include If your company K is a subcontractor or subgrantee, report the original source of funding Example: Company K is a car manufacturer and Company L is a glass manufacturer. In 2008, Company K is awarded a U.S. federal government contract to develop a new type of armored car. Company K performs some of the R&D itself and subcontracts the development of the car's bullety glass windshield to Company L. Both Company K and Company L would include their R&D costs for this project in the calculation for line c of this question. SBill Mill a. Other companies located inside the United States. b. Other companies located outside the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories f. All other organizations inside the United States. g. All other organizations located outside the United States.		b. Grants, reimbursements, and all other agreements			
Include If your company is a subcontractor or subgrantee, report the original source of funding Example: Company K is a car manufacturer and Company L is a glass manufacturer. In 2008, Company K is awarded a U.S. federal government contract to develop a new type of armored car. Company K performs some of the R&D itself and subcontracts the development of the car's bulletp glass windshield to Company L. Both Company K and Company L would include their R&D costs for this project in the calculation for line c of this question. SBil. Mil.		c. Total (equals Question 4-4, line a)			
If your company is a subcontractor or subgrantee, report the original source of funding Example: Company K is a car manufacturer and Company L is a glass manufacturer. In 2008, Company K is awarded a U.S. federal government contract to develop a new type of armored car. Company K performs some of the R&D itself and subcontracts the development of the car's bulletp glass windshield to Company L. Both Company K and Company L would include their R&D costs for this project in the calculation for line c of this question. SBil. Mil. a. Other companies located inside the United States. b. Other companies located outside the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories f. All other organizations inside the United States. g. All other organizations located outside the United States	8•1				by
Company K is awarded a U.S. federal government contract to develop a new type of armored car. Company K performs some of the R&D itself and subcontracts the development of the car's bulletp glass windshield to Company L. Both Company K and Company L would include their R&D costs for this project in the calculation for line c of this question. a. Other companies located inside the United States. b. Other companies located outside the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories f. All other organizations inside the United States.			of fundi	ng	
a. Other companies located inside the United States. b. Other companies located outside the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories f. All other organizations inside the United States. g. All other organizations located outside the United States		Company K is awarded a U.S. federal government contract to develop a new ty Company K performs some of the R&D itself and subcontracts the development glass windshield to Company L. Both Company K and Company L would include	ype of a nt of the	rmored c car's bul	letproof
a. Other companies located inside the United States. b. Other companies located outside the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories f. All other organizations inside the United States. g. All other organizations located outside the United States			\$Bil.	Mil.	Thou.
c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories f. All other organizations inside the United States. g. All other organizations located outside the United States					
d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories f. All other organizations inside the United States. g. All other organizations located outside the United States.		a. Other companies located <u>inside</u> the United States			
d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories f. All other organizations inside the United States. g. All other organizations located outside the United States.					
f. All other organizations <u>inside</u> the United States		b. Other companies located <u>outside</u> the United States			
g. All other organizations located outside the United States		b. Other companies located <u>outside</u> the United States			
		b. Other companies located <u>outside</u> the United States			
		b. Other companies located <u>outside</u> the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.)			
h. Total (equals Question 4-4, line a)		b. Other companies located <u>outside</u> the United States			



	types of companies?			
		\$Bil.	Mil.	Thou.
	A	·		
	a. Aerospace			
		'		
	b. Computer products			
	Electronic and dust			
	c. Electronic products			
	d. Motor vehicles			
	d. Motor verticles			
	e. Petrochemicals			
	e. Fetrochemicals			
	f. Pharmaceuticals			
	i. Filalifiaceuticals			
	g. All other companies			
	g. All other companies			
	h. Total (equals Question 4-8, lines a and b)			
	ii. I otal (equals Question 4-6, illies a and b)			
•10	How much of the R&D funded by U.S. federal government agencies or laboratories reported in Question 4•8, line c, was			
	funded by the following agencies?	\$Bil.	Mil.	Thou.
	a Danastmant of Dafance			
	a. Department of Defense			
	b Deposition out of Emoural			
	b. Department of Energy			
	b. Department of Energy c. National Aeronautics and Space Administration			
	c. National Aeronautics and Space Administration			
	c. National Aeronautics and Space Administration			
	c. National Aeronautics and Space Administration			
	c. National Aeronautics and Space Administration			
	c. National Aeronautics and Space Administration			
	c. National Aeronautics and Space Administration d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c)			
•11	c. National Aeronautics and Space Administration d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) How much of the 2008 worldwide R&D reported in Question			
•11	c. National Aeronautics and Space Administration			
•11	c. National Aeronautics and Space Administration			

4•12	How much of the following three funded R&D amounts was performed in each state
	(including D.C.):

- (1) 2008 R&D funded by the U.S. federal government reported in Question 4.8, line c
- (2) 2008 R&D funded by all nonfederal sources
 (3) 2008 total domestic R&D performed by your company that was funded by others reported in Question 4•4, line a

		(1) Federa	ı	(2) Nonfederal		(3) Total			
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
Alabama									
Alaska								· ·	
Arizona									
Arkansas									
California									
Colorado									
Connecticut									
Delaware									
District of Columbia									
Florida									
Georgia									
Hawaii									
ldaho									
Illinois									
Indiana									
lowa									
Kansas									
Kentucky									
Louisiana									

Question continues on next page

		(1) Federa	nl		(2) Nonfede	ral	(3) Total		al
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Tho
Maine									
Maryland									
Massachusetts									
Michigan									
Minnesota									
Mississippi									
Missouri									
IVIISSOUTI									
Montana									
Nebraska									
Nevada									
Name da la managa la ima									
New Hampshire									
New Jersey									
New Mexico									
New York									
North Carolina									
North Dakota									
Ohio									
Oklahoma									
Oregon									
Pennsylvania									
Rhode Island									

	(1) Federal		(2)			(3)	
			Nonfede	ral		Total	
	\$Bil. Mil. Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
South Carolina							
South Dakota							
Tennessee							
Texas							
10,40							
Utah							
Vermont							
Virginia							
Washington							
West Virginia							
west virginia							
Wisconsin							
Wyoming							
Total	Total equals Question				Total	equals O	uestion
	4 ['] 8, line c					4.4, line	
13 What are your o	company's <u>worldwide</u> pro	ojected	l costs i	n	\$Bil.	Mil.	Thou.
	performed by your compa						
,							
	he projected costs in 200				\$Bil.	Mil.	Thou.
others reported	our company that will be I in Question 4•13 will be						
the <u>domestic U</u>	nited States?						
15 How much of the	he projected costs in 200	9 for o	domestic	C	\$Bil.	Mil.	Thou.
R&D performed	I by your company that was in Question 4•14 will be	vill be	paid for	by			
	vernment agencies?	Para	y				



	racteristics of domestic R&D performed by your company that vled by others	vas
4•16	What percentage of the domestic R&D performed by your company that was funded by others reported in Question 4•4, line a, was for the following categories?	Percent %
	 a. Research-planned, systematic pursuit of new knowledge or understanding b. <u>Development</u>-systematic use of research and practical experience to produce new or significantly improved goods, services, or processes 	%
	c. Total	1 0 0 %
4•17	If you reported any research in Question 4•16, line a, what percentage of that research was for the following categories?	Percent
	a. Applied research—activity aimed at solving a specific problem or meeting a specific commercial objective	%
	b. <u>Basic research</u> –activity aimed at acquiring new knowledge or understanding without specific immediate commercial application or use	%
	c. Total	1 0 0 %
4•18	What percentage of the domestic R&D performed by your company that was funded by others reported in Question 4•4, line a, was for medical clinical trials (phases I, II, and III)?	Percent %
4•19	What percentage of the domestic R&D performed by your company that was funded by others reported in Question 4•4, line a, was for the production of prototypes?	Percent %
4•20	What percentage of the domestic R&D performed by your company that was funded by others reported in Question 4•4, line a, had <u>defense applications</u> , including military applications and general security-related R&D?	Percent %
4•21	What percentage of the domestic R&D performed by your company that was funded by others reported in Question 4•4, line a, had <u>health</u> or medical applications?	Percent %
4•22	What percentage of the domestic R&D performed by your company that was funded by others reported in Question 4•4, line a, had energy applications, including energy production, distribution, storage, and efficiency (excluding exploration and prospecting)?	
	Example: Company L is a semiconductor manufacturer. Its products are not designed specifically for energy applications, but 10% of its domestic R&D performed by its company is focused on improving the energy efficiency of its products. Based on these facts, Company L reports "10%" for this question.	Percent %
4•23	What percentage of the domestic R&D performed by your company that was funded by others reported in Question 4•4, line a, had environmental protection applications, including pollution abatement R&D?	Percent %



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What percentage of the domestic R&D performed by your company that was funded by others reported in Question 4•4, line a, had agricultural applications?	Percent %
Characteristics of domestic R&D performed by your company that was funded by the U.S. federal government	
4•25 What percentage of the domestic R&D performed by your company funded by <u>U.S. federal government agencies or laboratories</u> reported in Question 4•8, line c, was for the following categories?	Percent %
a. Research-planned, systematic pursuit of new knowledge or understanding b. Development-systematic use of research and practical experience to produce new or significantly improved goods, services, or processes	%
	0 0 %
4•26 If you reported any research in Question 4•25, line a, what percentage of that research was for the following categories?	Percent
a. Applied research—activity aimed at solving a specific problem or meeting a specific commercial objective	%
b. Basic research-activity aimed at acquiring new knowledge or understanding without specific immediate commercial application or use	%
c. Total	0 0 %
4-27 What percentage of the domestic R&D performed by your company that was funded by <u>U.S. federal government agencies or laboratories</u> reported in Question 4-8, line c, was for the <u>production of prototypes</u> ?	Percent %



Reporting information
4-28 Is the information in this section reported on a calendar year basis?
☐ Yes → Continue
No → Enter time period covered below: (MM) (YYYY) (MM) (YYYY)
From To
4-29 Approximately how long did it take to complete Section 4?
4-30 Please list the names and titles of the persons who provided data for this section.
Name Title



SECTION 5

R&D 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.

SECTION 5 – R&D Human Resources

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.

What is the reporting unit?

The reporting unit is your company, including all subsidiaries and divisions. Include operations of subsidiary companies where there is more than 50 percent ownership. Also, include data for discontinued operations.

NOTE: If your company is owned by a non-U.S. company, do not include data for your foreign owner or for any other affiliated companies not owned by your company.

Who are R&D employees?

R&D employees include all employees providing direct support to either R&D paid for by your company or R&D paid for by others not owned by your company, such as R&D your company performs under a grant or contract. Include scientists and engineers working on R&D as well as R&D managers, technicians, administrators, clerical staff, and interns providing direct support to R&D.

R&D employees do not include staff providing indirect support, such as security guards and cafeteria workers. Leased employees, temps, and on-site consultants should not be counted as R&D employees.

What is a full-time equivalent (FTE)?

A full-time equivalent takes into account employees who do not work full-time or for employees who do not work on R&D activities full-time. For example, an employee who works half-time would be counted as one employee on a headcount basis but as one-half (1/2) an FTE employee. Similarly, a full-time employee hired in June would be counted as one-half (1/2) an FTE employee. The number of FTEs and the headcount may differ for your company.

What do the terms "worldwide" and "domestic" mean?

The term "worldwide" refers to all geographic locations, including the United States. The term "domestic" refers to the 50 United States and the District of Columbia only.

Are estimates acceptable?

Yes, estimates are acceptable. Please report all items to the best of your ability.

How should I answer a question that does not apply to my company? Enter "0" if a question or category does not apply to your company.

What time period should be reported?

Report data for calendar year 2008, if possible, or for your company's fiscal year ending between April 2008 and March 2009.

NOTE: If your company was either purchased or ceased operations between April 1 and December 31, 2008, complete the survey for the time period from January 1, 2008 to the date of purchase or the date your company ceased operations.

To speak with a survey analyst, call 1-800-772-7851, option "5" (8 a.m. - 5 p.m. EST, M-F)



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Worl	ldwide employees					
5•1	What was the total number of employees working at your company worldwide for the pay period that included March 12, 2008? Include: • For the domestic employees, all employees whose payroll was reported on IRS Form 941, Employer's Quarterly Federal Tax Return • Employees in all activities during the pay period that includes March 12, 2008 • Employees on paid sick leave, paid holidays, and paid vacations during the pay period that included March 12, 2008 Exclude: • Leased or temporary employees and on-site consultants					
5•2	How many of your company's total in Question 5•1 were R&D employ. Include: • R&D scientists, engineers, managers, teand interns Exclude: • Staff providing indirect support, such as	ees? chnicians, administra	itors, clerical staff,	Number		
5•3	How many of the worldwide R&D (1) female employees, (2) male em in the R&D occupations listed below a. R&D engineers and their managers	ployees, and (3) t	(2) Male Employees	(3) Total Employees Total equals Question 5-2		
5•4	Of the total worldwide R&D scient managers reported in Question 5-3 had the following as their highest a. PhD (including EngD, ScD, excluding b. Other college degrees	3, lines a and b, heducational degrated mg MD, JD, and Edle mg MD, JD, and Edle mg MD, and Edle mg MD, and engineers	now many ree?			



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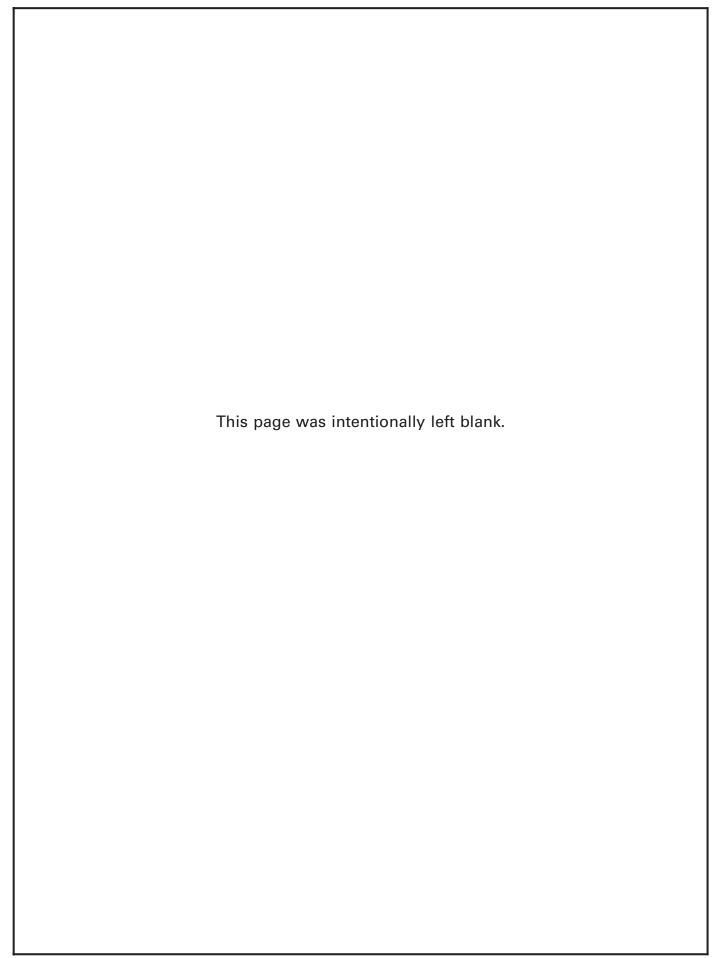
Don	nestic employees			
5•5	How many of the worldwide empl were domestic employees-employ operations?			
	 Include: All employees whose payroll was report Quarterly Federal Tax Return Employees on paid sick leave, paid holiopay period that included March 12, 200 	idays, and paid vacati	. ,	Number
5•6	How many of your company's tota Question 5•5 were R&D employee		oyees reported in	
	Include:R&D scientists, engineers, managers, to and interns	echnicians, administra	tors, clerical staff,	Number
	Exclude: • Staff providing indirect support, such a	s security guards and	cafeteria workers	
5•7	How many of the domestic R&D e (1) female employees, (2) male em in the R&D occupations listed below	ployees, and (3) t		
		(1) Female Employees	(2) Male Employees	(3) Total Employees
	a. R&D engineers and their managers	Limployees	Limployees	Limployees
	b. R&D scientists and their managers (not already reported in line a)			
	c. R&D technicians and technologists			
	d. R&D support staff (clerical and other)			
	e. Total domestic R&D employees			
				Total equals Question 5-6
5•8	Of the total domestic R&D scienti managers reported in Question 5•	7, lines a and b, h	ow many	Number
	had the following as their highest a. PhD (including EngD, ScD, excluding			
	b. Other college degrees			
	c. All other			
	d. Total domestic R&D scientists a (equals Question 5.7, lines a and b)			



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How many of the domestic R&D scientists and engineers and their managers reported in Question 5•7, lines a and b, were non-U.S. citizens employed in the United States under a temporary visa, such as H-1B or L-1?
Full-time equivalents (FTEs)
5-10 What was the number of <u>domestic</u> full-time equivalent (FTE) scientists and engineers engaged in R&D activities during 2008?
Full-time equivalents account for R&D scientists and engineers who do not work full-time and R&D scientists and engineers who do not work on R&D activities full-time. For example, a scientist or engineer who works half-time would be counted as one employee on a headcount basis but as one-half (½) an FTE employee. Similarly, a full-time employee hired in June would be counted as one-half (½) an FTE employee. The number of FTEs and the headcount may differ for your company.
How many of the domestic R&D FTE scientists and engineers reported in Question 5•10 were engaged in R&D activities funded by U.S. federal government grants or contracts during 2008?
Reporting information
5.12 Is the information in this section reported on a calendar year basis? ☐ Yes → Continue
No → Enter time period covered below: (MM) (YYYY) (MM) (YYYY) From To
5-13 Approximately how long did it take to complete Section 5?
5-14 Please list the names and titles of the persons who provided data for this section. Name Title
Name Title





SECTION 6

Intellectual Property, Technology Transfer, and Innovation

Who should answer this section?

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



SECTION 6 – Intellectual Property, Technology Transfer, and Innovation

What does this section cover?

This section requests information about intellectual property, technology transfer activities, and actions taken to improve company performance, such as:

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

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 firms. 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.

What is the reporting unit?

The reporting unit is your company, including all subsidiaries and divisions. Include operations of subsidiary companies where there is more than 50 percent ownership. Also, include data for discontinued operations.

NOTE: If your company is owned by a non-U.S. company, do not include data for your foreign owner or for any other affiliated companies not owned by your company.

How should dollar amounts be reported?

Report all dollar amounts rounded to the nearest thousand.

	\$Bil.	Mil.		Thou.			
Example: If figure is \$179,125,628.00 report:		1	7	9	1	2	6

Are estimates acceptable?

Yes, estimates are acceptable. Please report all items to the best of your ability.

How should I answer a question that does not apply to my company?

Enter "0" if a question or category does not apply to your company.

What time period should be reported?

Report data for calendar year 2008, if possible, or for your company's fiscal year ending between April 2008 and March 2009.

NOTE: If your company was either purchased or ceased operations between April 1 and December 31, 2008, complete the survey for the time period from January 1, 2008 to the date of purchase or the date your company ceased operations.

To speak with a survey analyst, call 1-800-772-7851, option "5" (8 a.m. - 5 p.m. EST, M-F)



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6•1	Did your company introduce any of the following during the three-year period, 2006 to 2008?
	a. New or significantly improved goods (excluding the simple resale of new goods purchased from others and changes of a solely aesthetic nature)
	b. New or significantly improved services
	c. New or significantly improved methods of manufacturing or producing goods or services
	d. New or significantly improved logistics, delivery, or distribution methods for your inputs, goods, or services
	e. New or significantly improved support activities for your processes, such as maintenance systems or operations for purchasing, accounting, or computing
Pate	ents
6•2	How many patents did your company apply for in 2008 from the U.S. Patent and Trademark Office (USPTO)?
6•3	What percentage of the patent applications reported in Question 6•2 has your company applied for or plans to apply for in foreign jurisdictions? Percent %
6•4	What percentage of the patent applications reported in Question 6•2 was for inventions that originated within your company's organized R&D activities?
6•5	How many patents were <u>issued</u> to your company in 2008 by the USPTO?
6•6	What percentage of your company's inventions considered for patenting in 2008 resulted in patent applications?
Pate	ent licensing
6•7	In 2008, what was the amount of your company's revenue from patents licensed to others not owned by your company?
6•8	How many new agreements did your company enter into during 2008 to license patents to others not owned by your company?

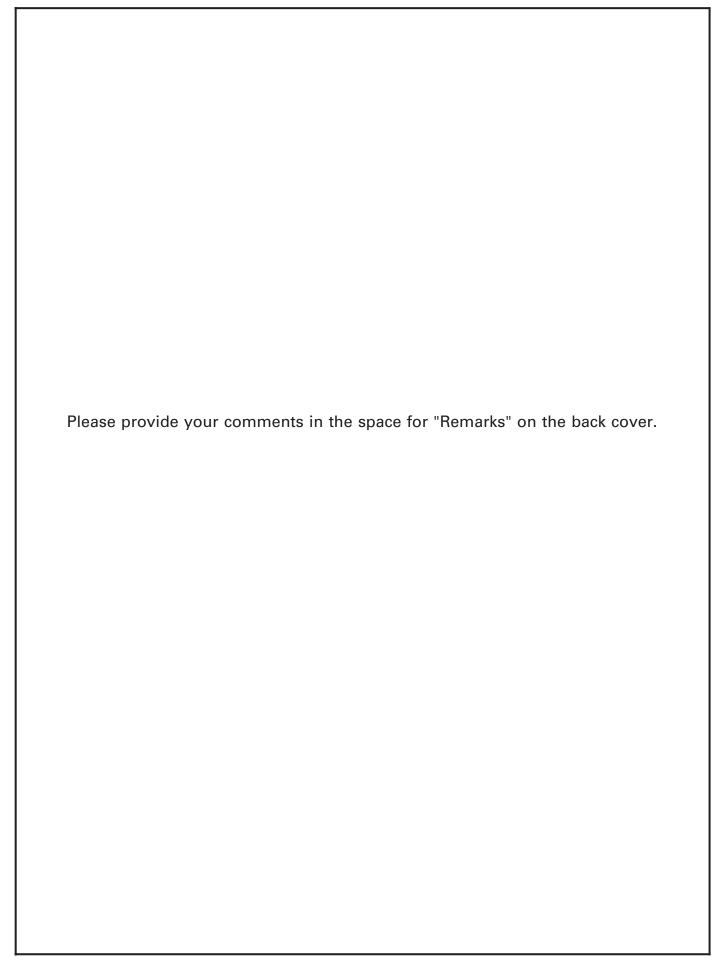


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_	id your company perform the following activities in 2008?			
a.	Transferred intellectual property to others not owned by your company through participation in technical assistance or "know how" agreements		Yes	
b.	Received intellectual property from others not owned by your company through participation in technical assistance or "know how" agreements		Yes	
c.	Transferred intellectual property to a spin-off or spin-out of your company		Yes	
d.	Received intellectual property from a parent company as part of a spin-off or spin-out		Yes	
e.	Acquired more than 50% ownership in another company for the primary purpose of acquiring their intellectual property		Yes	
f.	Acquired any financial interest in another company in order to gain access to their intellectual property		Yes	
g.	Participated in cross-licensing agreements—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	
h.	Allowed free use of patents or other intellectual property owned by your company (for example, allowing free use of software patents by the open source community)		Yes	
i.	Made use of open source patents or other freely available intelle property not owned by your company		Yes	
elle	ctual property protection			
	uring 2008, how important to your company were the llowing types of intellectual property protection?	Very portant	 newhat ortant	N impo
a.	Utility patents (patents for invention)			
b.	Design patents (patents for appearance)			
c.	Trademarks			
d.	Copyrights			Γ
	Trade secrets			Γ
e.				[



Reporting information
6.11 Is the information in this section reported on a calendar year basis?
☐ Yes → Continue
No → Enter time period covered below: (MM) (YYYY) (MM) (YYYY)
From To To
6-12 Approximately how long did it take to complete Section 6?
6-13 Please list the names and titles of the persons who provided data for this section.
Name Title



Please provide your comments in the space for "Remarks" on the back cover.	

Remarks (Please use the space below for any explanations that may help us understand your reported date
We estimate that it will take from .5 to 25 hours to complete this form, with 14.9 hours being the average. This includes time to read instructions, develop or assemble material, conduct tests, organize and review the information, and maintain and report the information. Send comments regarding this burden estimate or an other aspect of this collection of information, including suggestions for reducing this burden, to:
Paperwork Project 0607-0912, U.S. Census Bureau 4600 Silver Hill Road AMSD-3K138 Washington, D.C. 20233
You may e-mail comments to Paperwork@census.gov; use "Paperwork Project 0607-0912" as the subject.
Thenlesses for completing and comple
~ Thank you for completing your 2008 Business R&D and Innovation Survey ~ PLEASE MAKE A COPY OF THIS FORM FOR YOUR RECORDS AND RETURN THE ORIGINAL

