

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:

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

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

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



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 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 <u>bu</u> (1	ow much of the 2008 sasiness code listed or an owner worldwide net sales	ales and ope mended on p and operatin	rating page 6	revenue of this	form: ported in (Question '	1•6	
(2	Business Code (see page 6)	nd operating		(1) Worldwides and reve	e		(2) Domestic	
	(see page o)		\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Tho
a.								
		Г						
b.								
c.								
0.								
d.		L						
e.								
f.								
			1 1				T	
g.								
h.			1 1				1 1	
	Less eliminations–sales a revenues that are elimina	ated						
	in order to consolidate the business codes							
j.	Total							
			Total e	quals Que	estion 1.6	Total eq	uals Que:	stion 1
								Н
		did it take to	o com	plete Se	ection 1?			110

П							
ı	Busin	ess codes	Consumer Goods & Services				
ı	(used in	n Sections 1, 2, and 4)	71200	American and manufication			
ı			71300	Amusement, gambling, and recreation			
ı	Aerosp	ace & Defense	31500	industries Apparel manufacturing			
ı	33641	Aircraft manufacturing	33430	Audio and video equipment manufacturing			
ı	33642	Aircraft engine and engine parts manufacturing	81110	Automotive repair and maintenance			
ı	33643	Other aircraft parts and auxiliary equipment	31210	Beverage manufacturing			
ı		manufacturing	51520	Cable and other subscription programming			
ı	33644	Guided missiles, space vehicles, and parts	31320	(except Internet)			
ı		manufacturing	62440	Child day care services			
ı	33692	Military armored vehicle, tank, and tank	44800	Clothing and clothing accessories stores			
ı		components manufacturing	23600	Construction of buildings			
ı	33452	Search, detection, navigation, guidance,	53220	Consumer goods and general rental centers			
ı		aeronautical, and nautical system and	61100	Educational services			
ı		instruments manufacturing	33500	Electrical equipment, appliances, and			
ı	33660	Ship and boat building		components manufacturing			
ı	Automa	obiles, Motorcycles, & Components	45410	Electronic shopping and mail-order houses			
ı			44300	Electronics and appliance stores			
ı	33610	Motor vehicles manufacturing	44500	Food and beverage stores			
ı	33620	Motor vehicle body and trailer manufacturing	31100	Food manufacturing			
ı	33630	Motor vehicle parts manufacturing	72200	Food services and drinking places			
ı	33691	Motorcycle, bicycle, and parts manufacturing	33700	Furniture and related products manufacturing			
ı	33699	All other transportation equipment	45200	General merchandise stores			
ı		manufacturing	51600	Internet publishing and broadcasting			
ı	Capital	Goods	56160	Investigation, security, and services to			
ı	33430			buildings and dwellings			
ı	33330	Audio and video equipment manufacturing	31600	Leather and allied products manufacturing			
ı	33330	Commercial, service industry, temperature control, and airflow control machinery	51200	Motion picture and sound recording			
ı		manufacturing	44400	(except Internet)			
ı	33312	Construction machinery manufacturing	44100	Motor vehicle and parts dealers			
ı	23600	Construction of buildings	51110	Newspaper, periodical, book, and directory			
ı	33360	Engine, turbine, and power transmission	01000	publishers (except internet)			
ı	00000	equipment manufacturing	81200	Personal care, death care, laundry,			
ı	33200	Fabricated metal products manufacturing	51510	and other personal services			
ı	33311	Farm machinery and equipment	51510	Radio and television broadcasting (except Internet)			
ı		manufacturing	81190	Repair and maintenance, except automotive			
ı	23700	Heavy and civil engineering construction	32591	Soap, cleaning compound, and toilet			
ı	33322	Industrial machinery manufacturing, except	32331	preparations manufacturing			
ı		semiconductor machinery	62400	Social assistance (except child day care			
ı	33390	Metalworking and other general purpose	02400	services)			
ı		machinery manufacturing	31300	Textile mill products			
ı	33313	Mining machinery and equipment	31220	Tobacco manufacturing			
ı		manufacturing	72100	Traveler accommodation services			
ı	33651	Railroad rolling stock manufacturing	12.00				
ı	33660	Ship and boat building	Energy				
ı	23800	Specialty trade contractors	21210	Coal mining			
ı			22110	Electric power generation, transmission,			
ı		ercial and Professional Services	22110	and distribution			
ı		ng contract research)	21100	Oil and gas extraction			
ı	54120	Accounting, tax preparation, bookkeeping,	33313	Oil and gas field machinery and equipment			
ı		and payroll services		manufacturing			
ı	54180	Advertising and related services	32400	Petroleum and coal products manufacturing			
ı	54130	Architectural, engineering, and related services	48610	Pipeline transportation of crude oil, refined			
ı	56140	Business support services		petroleum, and miscellaneous products,			
ı	53240	Commercial and industrial machinery		except natural gas			
ı	E4440	and equipment rental and leasing	56150	Travel arrangement and reservation services			
ı	54110	Legal services		•			
ı	54160	Management, scientific, and technical	Financi	als			
ı	EC100	consulting services	F0000	Australian collected to conditation on distinct			
	56190	Office administrative, facilities, employment,	52230	Activities related to credit intermediation			
ı	22200	and other support services	52420	Agencies, brokerages, and other insurance			
	32300 56290	Printing and related support activities	E2210	related activities			
1	30230	Remediation and other waste management services	52210 52500	Depository credit intermediation			
	54170	Research & development services	52500	Funds, trusts, and other financial vehicles Insurance carriers			
ı	54170	Specialized design services	52410	Monetary authorities-central bank			
	56150	Travel arrangement and reservation services	52100	Nondepository credit intermediation			
	55150	Travor arrangement and reservation services	32220	remacpository distuit intermediation			
1			I				



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
1	iniancial 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
1	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	<u>.</u>	48100	Air transportation
33429	Communication equipment manufacturing,	53210	Automotive equipment rental and leasing
1	except broadcasting, wireless, and	49200	Couriers and messengers
F 44 F 0	telephone apparatus	48200 48700	Rail transportation
54150	Computer systems design and related services	48800	Scenic and sightseeing transportation Support activities for transportation
33410	Computers and peripheral equipment	48500	Transit and ground passenger transportation
E1020	manufacturing	48400	Truck transportation
51820 33500	Data processing, hosting, and related services Electrical equipment, appliances, and	49300	Warehousing and storage
33300	components manufacturing	48300	Water transportation
51900	Information services (not elsewhere listed	40000	water transportation
31300	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	00200	management services
1	manufacturing (not listed elsewhere in	56210	Waste collection, treatment, and disposal
1	this category)	22130	Water, sewage, and other systems
33422	Radio and television broadcasting and		3.,
1	wireless communications equipment	Busine	ss Codes Not Elsewhere Classified
	manufacturing	53300	Lessors of nonfinancial intangible assets
33452	Search, detection, navigation, guidance,	55100	Management of companies and enterprises
	aeronautical, and nautical system and	42300	Merchant wholesalers, durable goods
00440	instruments manufacturing	42400	Merchant wholesalers, nondurable goods
33440	Semiconductor and other electronic	33990	Miscellaneous manufacturing (not listed
22221	components manufacturing		elsewhere)
33321	Semiconductor machinery manufacturing	71200	Museums, historical sites, and similar
51120	Software		institutions
33421	Telephone apparatus manufacturing	45490	Nonstore retailers, except electronic
Mataul	ماء		shopping and mail-order houses
Materia		71100	Performing arts, spectator sports,
32511	Basic chemicals manufacturing		and related industries
32790	Cement, concrete, lime, gypsum, and other	54190	Professional, scientific, and technical services
	nonmetallic mineral product manufacturing		(not listed elsewhere)
32710	Clay and glass products manufacturing	45990	Retail trade stores, including gasoline stations
33150	Ferrous and nonferrous foundries		(not listed elsewhere)
33110	Iron and steel mills, ferroalloy, and	42500	Wholesale electronic markets and agents
21220	steel product from purchased steel		and brokers
21220	Metal ore mining		
33130 21230	Nonferrous metals production and processing Nonmetallic mineral mining and quarrying		
21230	Nominetanic inineral inining and quarrying		



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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	1.
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)



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			
	 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 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)			

2•4	How much of the 2	008 worldwide R&D	expense reported in	\$Bil.	Mil.	Thou.
	Question 2•1 was f	or gross annual pay	oll-wages and salaries	ΨΒΠ.	IVIII.	Tilou.
	of employees exclu	ding the cost of fri	ge benefits?			
2•5	How much of the way others not owners 2.3, line b, was per					
	organizations?	ioniiou by the folio	anig typod of	\$Bil.	Mil.	Thou.
	a. Companies located	d <u>inside</u> the United Sta	tes			
	b. Companies located	d <u>outside</u> the United S	tates			
	c. U.S. federal gover	nment agencies or lab	oratories			
	d. U.S. state and loca	al government agencie	s or laboratories			
	e. Foreign governme	nt agencies or laborat	ories			
	f. Universities, colleg		earchers (including e United States			
		ges, and academic res tors) located <u>outside</u> t	earchers (including ne United States			
	h. All other organizat	ions				
	i. Total R&D perfo	rmed by others (equ	als Question 2·3, line b)			
2•6						
		&D performed by you	our company in 2008 repo	orted in	n Questi	ion 2•3,
	line a, was perform	ed in the countries our company by coun				
	line a, was perform	ed in the countries our company by coun &D.	isted below? ry should reflect the actual loc	cation wh	nere your	
	R&D performed by y company performed R&D a. United States	ed in the countries our company by coun	isted below? ry should reflect the actual loc .			
	R&D performed by y company performed R&D	ed in the countries our company by coun &D.	isted below? ry should reflect the actual loc	cation wh	nere your	
	R&D performed by y company performed R&D a. United States	ed in the countries our company by coun &D. \$Bil. Mil. Thou	i. Israel.	cation wh	nere your	
	R&D performed by y company performed Radian a. United States (domestic)	ed in the countries our company by coun &D.	i. Israel.	cation wh	nere your	
	a. United States (domestic)	ed in the countries our company by coun &D. \$Bil. Mil. Thou	i. Israel.	cation wh	nere your	
	a. United States (domestic)	ed in the countries our company by coun &D. \$Bil. Mil. Thou	i. Israel.	cation wh	nere your	
	a. United States (domestic)	ed in the countries our company by coun &D. \$Bil. Mil. Thou	h. Ireland	\$Bil.	nere your	
	a. United States (domestic)	ed in the countries our company by coun &D. \$Bil. Mil. Thou	i. Israel	\$Bil.	nere your	Thou.
	a. United States (domestic)	ed in the countries our company by coun &D. \$Bil. Mil. Thou	h. Ireland	\$Bil.	nere your	Thou.

2•6	(Continued)	
	\$Bil. Mil. Thou.	\$Bil. Mil. Thou.
	o. Sweden	
	r. Total (equals Question 2·3,	
	p. United Kingdom line a)	
2•7	How much of the domestic R&D performed by your company	\$Bil. Mil. Thou.
	in 2008 reported in Question 2•6, line a, was paid for by your 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?	\$Bil. Mil. Thou.
	a. Gross annual payroll-wages and salaries of R&D employees	
	and officers excluding fringe benefits	
	h Employar's cost for frings handits	
	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 personnelAll charges for payroll, benefits, and services	
	All charges for payron, benefits, and services	
	e. Expensed equipment	
	f. Materials and supplies	
	g. Lease and rental payments	
	h Demosiation and amoutination on BOD	
	h. Depreciation and amortization on R&D property and equipment	
	i. All other costs	
	. ,	
	j. Total (equals Question 2-6, line a)	

	\$Bil.	Mil.	Thou.		\$Bil.	Mil.
abama				Massachusetts		
aballa				เขเสออสนาเนอชเเอ		
aska				Michigan		
				Minuscoto		
rizona				Minnesota		
kansas				Mississippi		
				B.4.		
alifornia				Missouri		
olorado				Montana		
				N. I.		
onnecticut				Nebraska		
elaware				Nevada		
strict of Columbia				New Hampshire		
orida				New Jersey		
eorgia				New Mexico		
awaii				New York		
				N 0 II		
aho				North Carolina		
inois				North Dakota		
				01:		
diana				Ohio		
wa				Oklahoma		
				0		
ansas				Oregon		
entucky				Pennsylvania		
				DI L		
ouisiana				Rhode Island		
aine				South Carolina		
aryland				South Dakota		

Tennessee. Washington Texas Utah Vermont Washington West Virginia Wisconsin Wyoming	Washington
Texas West Virginia West Virginia 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	West Virginia Wisconsin Wyoming Total (equals Question 2.6, line a) r company perform the largest dollar amount of
Texas	West Virginia Wisconsin Wyoming Total (equals Question 2.6, line a) r company perform the largest dollar amount of
Utah	Wyoming Total (equals Question 2.6, line a) r company perform the largest dollar amount of
Vermont	Wyoming Total (equals Question 2.6, line a) r company perform the largest dollar amount of
Virginia	Total (equals Question 2.6, line a) r company perform the largest dollar amount of
Virginia	Total (equals Question 2.6, line a) r company 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)
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.	erformed by your \$Bil. Mil. Thou.
company reported in Question 2.6, line a, was from the	line a, was from the
location identified in Question 2•10?)?

DODL	/ business	0000
nav o	/ business	

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.	Т	hou	l.



Business C				(1) Domest R&D expe			(2) stic R&D y your con	
(see page			\$Bil.	Mil.	Thou.	\$Bil.	Mil.	
	······							F
	ш							L
	<u> </u>							H
								Г
								L
								F
	ш							L
								Γ
								L
			Total	equals Qu	estion 2·13	Total e	equals Que line a	98
v much o	f vour comi	pany's dome	etic canita	l avnand	iturae	\$Bil.	Mil.	Τ
	for R&D op		Stio Oupitu	СХРСПА	<u>itures</u>			Γ
								_
		stic capital e						
erations re egories?	eported in C	Question 2•1	5 was for t	he follov	wing	\$Bil.	Mil.	
Structures								
								Ī
uipment								
i+o!:!	o often							
italized	sonware							T
ther ca	apital expend	litures for R&I	D operations	3				
l dom	estic capita	al expenditu	res for R&D					Τ

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.

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3•1	Copy the amount reported in Question 2•1-your company's	\$Bil.	Mil.	Thou.
3.1	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	7-11		
	United States in 2008.			
				T
3•3	Copy the amount reported in Question 2•3, line b-2008 R&D performed by others not owned by your company,	\$Bil.	Mil.	Thou.
	such as contract research organizations, universities, or			
	government labs.			
Wor	Idwide R&D expense			
2.4	What nevertees of the worldwide DOD			
3•4	What percentage of the <u>worldwide R&D expense</u> in 2008 reported Question 3•1 was directed toward business areas or product line	a In s in		
	which your company had <u>no revenues</u> before 2008?			
	Example: Company A is an automobile manufacturer. In 2008, it began R&D o	n the		Percent
	company's first motorcycle. Because Company A had no previous revenues for	9.D io		%
	motorcycles, it is a new business area for the company. The expense for this Rincluded in the calculation for this question.	XD IS	L	
	·			
3•5	What percentage of the worldwide R&D expense in 2008 reported	d in		
	Question 3•1 involved science/technology that your company had	l not		
	used in projects before 2008?			
	Example: Company B is an automobile manufacturer. In 2008, it began to expl hydrogen fuel cells in its vehicles. Because Company B had not used this techn		ng	Percent
	before 2008, it is new for the company. The expense for this R&D is included in			%
	calculation for this question.			
3•6	What percentage of the worldwide R&D expense in 2008 reported Question 3•1 was both directed toward business areas or produc		•	
	in which your company had no revenues before 2008 and involve	d		
	science/technology that had not been used by your company in o	ther		
	projects before 2008?			_
	Example: Company C is an automobile manufacturer. In 2008, it began a proje 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 mo	otorcyc	le	%
	manufacturing is a new business area for C and the company had no experience hydrogen fuel cell technology before 2008, it would include the hydrogen fuel cell technology before 2008, it would be a fuel cell technology before 2008, it would be a fuel cell technology before 2008, it would be a fuel cell technology before 2008, it would be a fuel cell technology before 2008, it would be a fuel cell technology before 2008, it would be a fuel cell technology before 2008, it would be a fuel cell technology be fuel cell technology before 2008, it would be a fuel cell techno		, –	
	related to its motorcycle project in the calculation for this question.	OII HOL		
3•7	What percentage of the worldwide R&D expense in 2008 reported			
	Question 3•1 was for R&D in science/technology new to the mark (i.e. first-to-market) in which your company operates?	(et(s)		
				Percent
	 Exclude R&D to improve upon, replicate, or adopt science/technology currently in use 	in the		
	market(s) in which your company operates			%



market(s) in which your company operates

reports 10% for this question.

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

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 involve shared risk and shared reward.	е	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 <u>universities</u> , <u>colleges</u> , and <u>academic researchers</u> , 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	ho
				ile
	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		
	b. For-profit companies located <u>outside</u> the United States			No
	b. For-profit companies located <u>outside</u> the United States	Yes		No No
	b. For-profit companies located <u>outside</u> the United States	Yes Yes		No No No
3•15	b. For-profit companies located outside the United States	Yes Yes Yes Yes		No No No
3•15	b. For-profit companies located outside the United States	Yes Yes Yes Yes		No No No
3•15	b. For-profit companies located outside the United States	Yes Yes Yes Yes		No No No No
3•15	b. For-profit companies located outside the United States	Yes Yes Yes Yes Yes		No 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	L			%
	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 nat 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				%
			4	^	^	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	
	%

ercent %
ercent %
ercent %
ercent %
ercent %
ercent %
ercent %
ercent %
ercent %



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



Activi	ties with academia			
	Pid your company perform any of the following activities with university of the following activities with university in 2008?	ersit	ies, st	udents,
	. Hired academic consultants for short-term projects in science		Yes	
b	and engineering		Yes	□ N
С	degrees in science or engineering for at least one month Hosted post-doctoral fellows in science or engineering for at least one month		Yes	□ 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.		Yes	□ N
е	. Made monetary gifts to universities or colleges that were restricted to supporting R&D		Yes	□ N
Comp	any characteristics			
3•41 V	Vere the following statements true for your company in 2008?			
а	. This company has been in business for fewer than 5 years as of December 31, 2008		Yes	□ N
b	. This company's primary mission in 2008 was to commercialize science/technology discovered or developed by academic researchers		Yes	
С	. This company received venture capital funding in 2008		Yes	
Repor	ting information			
3•42 ls	s the information in this section reported on a calendar year basis?			
[Yes → Continue			
I	No → Enter time period covered below: (MM) (YYYY) (MM) (YYYY) From To			
3•43 A	approximately how long did it take to complete Section 3?			Hour
3•44 P	lease list the names and titles of the persons who provided data fo	or thi	is sect	ion.
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	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.

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Mil.

Thou.

\$Bil.

Worldwide R&D	performed by	vour 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				7-11		
(domestic)				j. Italy			
							Π
b. Puerto Rico				k. Japan			
				·			П
c. Canada				I. Russia			
d. China				m. Singapore			
u. Cilila				iii. Oiligapoi c			
- Fuence				n Cauth Karaa			
e. France				n. South Korea			
. Germany				o. Sweden			L
ر. 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 th 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, eable to r	performed line a, wa	d by your company th	at was ode list	funded ted or an	b _y
How much of the others reported in on page 6 of this factor and allocation in proport more appropriate. Business Code	domesti Questic form? is applic	ic R&D on 4•4, eable 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.	by me
How much of the others reported in on page 6 of this fallocate R&D that Allocation in proport more appropriate.	domesti Questic form? is applic	ic R&D on 4•4, eable to r	performe line a, wa more than	d by your company the solution of the solution	at was ode list	funded ted or an	by me
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4•5	(Continued)			
	Business Code (see page 6)			
	(see page 6)	\$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 benefitsLife 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			
	i. Materials and supplies			
	g. Lease and rental payments			
	h Dannasiation and analytication on DOD means to and annihumant			
	h. Depreciation and amortization on R&D property and equipment			
	i. All other costs			
	j. Total (equals Question 4·4, line a)			
	j. Total (equale custom 11, mile a)			



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	performed under each of the following types of agreements?			
	·	\$Bil.	Mil.	Thou.
	a. Contracts (include direct or prime contracts and subcontracts)			
	b. Grants, reimbursements, and all other agreements			
	c. Total (equals Question 4·4, line a)			
4•8	How much of the domestic R&D performed by your company that others reported in Question 4•4, line a, was funded by each of the			by
	Include • If your company is a subcontractor or subgrantee, report the original source of	of fund	ing	
	Example: Company K is a car manufacturer and Company L is a glass manufa 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 this project in the calculation for line c of this question.	pe of a	armored c e car's bul	letproof
		\$Bil.	Mil.	Thou.
	a. Other companies located <u>inside</u> the United States	72		
	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.)			
	(30 Officed States and B.C.)			
	e. Foreign government agencies or laboratories			
	f. All other organizations <u>inside</u> the United States			
	g. All other organizations located <u>outside</u> the United States			
	h. Total (equals Question 4-4, line a)			



a. Aerospace b. Computer products c. Electronic products d. Motor vehicles e. Petrochemicals f. Pharmaceuticals g. All other companies h. Total (equals Question 4-8, lines 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? a. Department of Defense. b. Department of Energy. c. National Aeronautics and Space Administration d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) **11 How much of the 2008 worldwide R&D reported in Question 4-1 was 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?	a. Aerospace b. Computer products c. Electronic products d. Motor vehicles e. Petrochemicals f. Pharmaceuticals g. All other companies h. Total (equals Question 4-8, lines 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? a. Department of Defense b. Department of Defense c. National Aeronautics and Space Administration d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) *11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on		How much of the R&D funded by other companies reported in Question 4•8, lines a and b, was funded by the following types of companies?			
b. Computer products c. Electronic products d. Motor vehicles e. Petrochemicals f. Pharmaceuticals g. All other companies h. Total (equals Question 4-8, lines a and b). 1010 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? a. Department of Defense b. Department of Energy. c. National Aeronautics and Space Administration d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) 1-11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	b. Computer products c. Electronic products d. Motor vehicles e. Petrochemicals f. Pharmaceuticals g. All other companies h. Total (equals Question 4-8, lines 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? a. Department of Defense. b. Department of Energy. c. National Aeronautics and Space Administration d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) *11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on		//	\$Bil.	Mil.	Thou.
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d. Motor vehicles e. Petrochemicals f. Pharmaceuticals g. All other companies h. Total (equals Question 4-8, lines a and b) 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? a. Department of Defense b. Department of Energy. 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 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	d. Motor vehicles e. Petrochemicals f. Pharmaceuticals g. All other companies h. Total (equals Question 4-8, lines 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? a. Department of Defense b. Department of Energy. c. National Aeronautics and Space Administration d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on		a. Flacticania producto			
e. Petrochemicals f. Pharmaceuticals g. All other companies h. Total (equals Question 4-8, lines a and b) 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? a. Department of Defense. b. Department of Energy. 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 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	e. Petrochemicals f. Pharmaceuticals g. All other companies h. Total (equals Question 4-8, lines a and b) 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? a. Department of Defense. b. Department of Energy. 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 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on		c. Electronic products			
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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? a. Department of Defense. b. Department of Energy. 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 4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	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? a. Department of Defense. b. Department of Energy. 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 4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on		h Total (equals Question 4.8 lines a and h)			
agencies or laboratories reported in Question 4-8, line c, was funded by the following agencies? \$\frac{\\$\\$Bil.}{\}\$ Mil. Thou.} a. Department of Defense. b. Department of Energy. c. National Aeronautics and Space Administration. d. National Institutes of Health e. All other. f. Total (equals Question 4-8, line c) 11 How much of the 2008 \(\frac{\wordenger{\}\}\) reported in Question 4-1 was \(\frac{\}\) independent research and \(\frac{\}\) development (\(\frac{\}\)\) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	agencies or laboratories reported in Question 4-8, line c, was funded by the following agencies? \$\frac{\\$\\$Bil.}{\}\$ Mil. Thou.} a. Department of Defense. b. Department of Energy. c. National Aeronautics and Space Administration. d. National Institutes of Health e. All other. f. Total (equals Question 4-8, line c) 11 How much of the 2008 \(\frac{\wordenger{\}\}\) reported in Question 4-1 was \(\frac{\}\) independent research and \(\frac{\}\) development (\(\frac{\}\)\) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on		ii. Iotal (equals Question 40, intes a and b)			
funded by the following agencies? a. Department of Defense. b. Department of Energy. c. National Aeronautics and Space Administration. d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	funded by the following agencies? a. Department of Defense. b. Department of Energy. c. National Aeronautics and Space Administration. d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	•10				
a. Department of Defense. b. Department of Energy. c. National Aeronautics and Space Administration. d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	a. Department of Defense. b. Department of Energy. c. National Aeronautics and Space Administration. d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on			\$Bil	Mil	Thou
b. Department of Energy. c. National Aeronautics and Space Administration. d. National Institutes of Health. e. All other. f. Total (equals Question 4-8, line c). 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	b. Department of Energy. c. National Aeronautics and Space Administration. d. National Institutes of Health. e. All other. f. Total (equals Question 4-8, line c). 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on			φΒπ.	TVIII.	Tilou.
c. National Aeronautics and Space Administration d. National Institutes of Health e. All other f. Total (equals Question 4·8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	c. National Aeronautics and Space Administration d. National Institutes of Health e. All other f. Total (equals Question 4·8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on		a. Department of Defense			
c. National Aeronautics and Space Administration d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	c. National Aeronautics and Space Administration d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on					
d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on		b. Department of Energy			
d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	d. National Institutes of Health e. All other f. Total (equals Question 4-8, line c) 11 How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on					
e. All other f. Total (equals Question 4-8, line c) How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	e. All other f. Total (equals Question 4-8, line c) How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on		c. National Aeronautics and Space Administration			
e. All other f. Total (equals Question 4-8, line c) How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	e. All other f. Total (equals Question 4-8, line c) How much of the 2008 worldwide R&D reported in Question 4-1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on					
f. Total (equals Question 4·8, line c)	f. Total (equals Question 4·8, line c)		d. National Institutes of Health			
f. Total (equals Question 4·8, line c)	f. Total (equals Question 4·8, line c)					
How much of the 2008 worldwide R&D reported in Question 4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	How much of the 2008 worldwide R&D reported in Question 4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on		e. All other			
How much of the 2008 worldwide R&D reported in Question 4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	How much of the 2008 worldwide R&D reported in Question 4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on					
4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on		f. Total (equals Question 4.8, line c)			
4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on					
for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	for which your company anticipates reimbursement by the U.S. federal government through indirect charges on					
U.S. federal government through indirect charges on	U.S. federal government through indirect charges on	•11				Thou.
		•11	4•1 was independent research and development (IR&D) costs	\$Bil.	Mil.	
		•11	4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the	\$Bil.	Mil.	1 1
		•11	4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	\$Bil.	Mil.	
		•11	4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	\$Bil.	Mil.	
		•11	4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	\$Bil.	Mil.	
		•11	4•1 was independent research and development (IR&D) costs for which your company anticipates reimbursement by the U.S. federal government through indirect charges on	\$Bil.	Mil.	

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

Question continues on next page

		(1) Federa	nl		(2) Nonfede	ral		(3) Total	
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Tho
Maine									
Maryland									
Massachusetts		1 1							
viassaciiusetts									
lichigan									
linnesota									
Mississippi									
Missouri		1 1			1 1				
Montana									
Nebraska									
Nevada									
New Hampshire		1 1			1 1				
New Jersey									
New Mexico									
New York									
North Carolina		1 1			1 1			T T	
North Dakota									
Ohio									
Oklahoma									
		1 1							
Oregon									
Pennsylvania									
Rhode Island									

(Continued)	_ (1)	(2)	_(3)
	Federal \$Bil. Mil. Thou.	Nonfederal \$Bil. Mil. Thou.	*Bil. Mil. Thou
0 11 0 11			
South Carolina			
South Dakota			
_			
Tennessee l			
Texas			
Utah l			
Vermont			
Virginia l			
Washington			
West Virginia			
Wisconsin			
Wyoming			
Total			
	Total equals Question 48, line c		Total equals Question 4·4, line a
3 What are your co	ompany's <u>worldwide</u> pr	niected costs in	\$Bil. Mil. Thou
2009 for R&D pe	erformed by your comp	any that will be	42
paid for by othe	ers?		
	ne projected costs in 200		\$Bil. Mil. Thou
	our company that will be in Question 4•13 will be		
the domestic Un		o porrormou m	
		206	AD' 14' T
R&D performed	ne projected costs in <u>200</u> by your company that w	will be paid for by	\$Bil. Mil. Thou
- 41	in Question 4•14 will be	e paid for by	
U.S. federal gov	ernment agencies?		



	racteristics of domestic R&D performed by your company that viled 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. <u>Research</u>-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 <u>production of prototypes</u> ?	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?	ent %
Characteristics of domestic R&D performed by your company that was funded by the U.S. federal government	
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?	ent %
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	%
c. Total	0 %
4-26 If you reported any research in Question 4-25, line a, what percentage of that research was for the following categories?	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	%
c. Total	0 %
4-27 What percentage of the domestic R&D performed by your company that was funded by U.S. federal government agencies or laboratories reported in Question 4-8, line c, was for the production of prototypes?	ent %



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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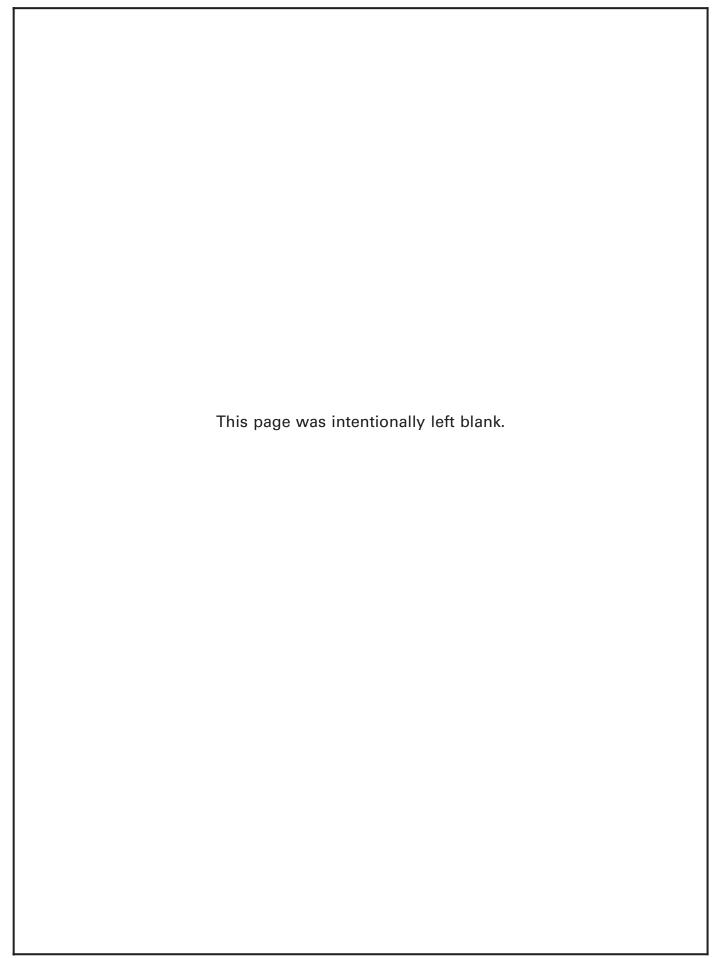
Don	nestic employees					
5•5	How many of the worldwide empl were domestic employees-employ operations?					
	Include: • All employees whose payroll was reported on IRS Form 941, Employer's Quarterly Federal Tax Return • Employees on paid sick leave, paid holidays, and paid vacations during the pay period that included March 12, 2008					
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	Employees	Employees	Employees		
	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• had the following as their highest	7, lines a and b, h	ow many	Number		
	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 <u>domestic</u> 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?	Number
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.	Number
How many of the <u>domestic</u> 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?	Number
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?	Hours
5-14 Please list the names and titles of the persons who provided data for	r this section.
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		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.

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?
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?

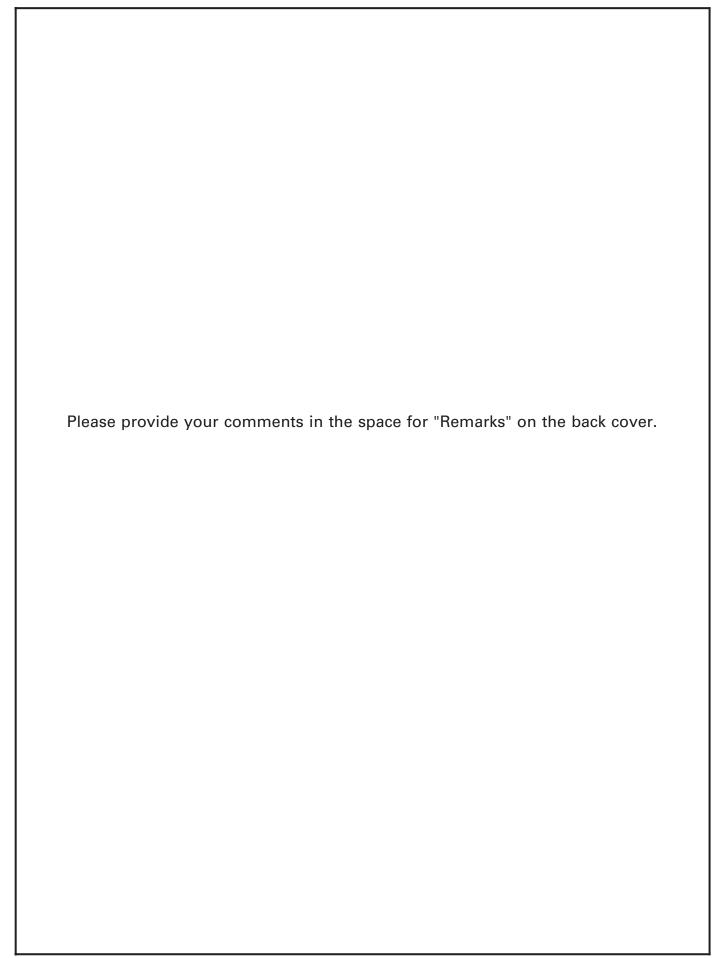


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		id your company perform the following activities in 2008?				
company through participation in technical assistance or "know how" agreements C. Transferred intellectual property to a spin-off or spin-out of your company. d. Received intellectual property from a parent company as part of a spin-off or spin-out. e. Acquired more than 50% ownership in another company for the primary purpose of acquiring their intellectual property f. Acquired any financial interest in another company in order to gain access to their intellectual property. 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 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) i. Made use of open source patents or other freely available intellectual property not owned by your company. ellectual property protection During 2008, how important to your company were the following types of intellectual property protection? a. Utility patents (patents for invention) b. Design patents (patents for appearance). c. Trademarks. d. Copyrights e. Trade secrets	a.	company through participation in technical assistance or		Yes		
d. Received intellectual property from a parent company as part of a spin-off or spin-out. e. Acquired more than 50% ownership in another company for the primary purpose of acquiring their intellectual property f. Acquired any financial interest in another company in order to gain access to their intellectual property. 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 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 patents or other freely available intellectual property not owned by your company. c. Made use of open source patents or other freely available intellectual property protection During 2008, how important to your company were the following types of intellectual property protection? a. Utility patents (patents for invention) b. Design patents (patents for appearance) c. Trademarks. d. Copyrights e. Trade secrets	b.	company through participation in technical assistance or		Yes		
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f. Acquired any financial interest in another company in order to gain access to their intellectual property	d.			Yes		
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f. Mask works (copyright protection for semiconductor products)	e.	Trade secrets			[Ĺ
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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 data.
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