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

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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:

- to financial records
- Section 3: Management and Strategy of R&D Expensep.21
- 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
- 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



1•1	Who is the survey coordinator?	
	The survey coordinator is the person at your company respinformation, ensuring instructions are followed, and submit survey coordinator may not be able to personally complete will be able to request information from other knowledgea. The survey coordinator may be assigned by your company oversight of or access to your company's R&D, accounting organizations.	tting the completed survey. The ethe entire survey, but he or she ble resources within your company. 's CEO or another person with
	Name	Title
	Area code Number Extension	Area code Number
	Telephone F	ax
	E-mail address	
1•2	Did your company cease operations prior to April 1, 2	0082
1,5		
	Yes → Stop here and return the survey form to th Alternatively, you may report online at: www.ce	
	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)
	Name of owner	Env or owner (5 digits)
	(MM) (DD) (YYYY)
	Date owner purchased your company	
	If your company was purchased <u>before</u> April 1, 2008, to the U.S. Census Bureau or report online at: <u>www.census.</u>	
	No → Continue with Question 1•4	
	No 9 Continue with Question 194	
1•4	Did your company do any of the following during 200	8?
	 Incur R&D expenses OR Perform R&D that was funded or paid for by others not over 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 cea December 31, 2008, complete the survey for t 2008 to the date of purchase or the date your	the time period from January 1,
	No → Skip to Section 6, page 49	

Business Codes

Do the business code(s) listed below reflect all applicable codes 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



<u>bı</u> (ow much of the 2008 sales and ousiness code listed or amended of the listed or amended of the listed and operate t	on page 6 ating reve	of this enues re	form: ported in (Question '	1•6	
	Business Code		(1) Worldwide s and reve		sales	(2) Domestic and reve	nues
	(see page 6)	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou
a.						1 1	'
a.							
b.							
C.							
d.							
						T T	
e.							
f.						1 1	
١.							
g.							
h.							
1.	Less eliminations–sales and revenues that are eliminated						
	in order to consolidate the business codes		' '			1 1	'
j.	Total						
		Total ed	quals Que	stion 1.6	Total eq	quals Que	stion 1
							Ī.,
A	pproximately how long did it tak	e to com	plete Se	ction 1?			Но

Busin	ness codes	Consun	ner Goods & Services
(used	in Sections 1, 2, and 4)	71300	Amusement, gambling, and recreation
l <u>.</u>		71300	industries
Aeros	pace & Defense	31500	Apparel manufacturing
33641	Aircraft manufacturing	33430	Audio and video equipment manufacturing
33642	Aircraft engine and engine parts manufacturing	81110	Automotive repair and maintenance
33643	Other aircraft parts and auxiliary equipment	31210	Beverage manufacturing
l	manufacturing	51520	Cable and other subscription programming
33644	Guided missiles, space vehicles, and parts		(except Internet)
22000	manufacturing	62440	Child day care services
33692	Military armored vehicle, tank, and tank components manufacturing	44800	Clothing and clothing accessories stores
33452	Search, detection, navigation, guidance,	23600	Construction of buildings
00402	aeronautical, and nautical system and	53220	Consumer goods and general rental centers
	instruments manufacturing	61100 33500	Educational services Electrical equipment, appliances, and
33660	Ship and boat building	33300	components manufacturing
. .		45410	Electronic shopping and mail-order houses
	nobiles, Motorcycles, & Components	44300	Electronics and appliance stores
33610	Motor vehicles manufacturing	44500	Food and beverage stores
33620	Motor vehicle body and trailer manufacturing	31100	Food manufacturing
33630	Motor vehicle parts manufacturing	72200	Food services and drinking places
33691	Motorcycle, bicycle, and parts manufacturing	33700	Furniture and related products manufacturing
33699	All other transportation equipment	45200	General merchandise stores
	manufacturing	51600	Internet publishing and broadcasting
Capita	l Goods	56160	Investigation, security, and services to
33430	Audio and video equipment manufacturing	31600	buildings and dwellings Leather and allied products manufacturing
33330	Commercial, service industry, temperature	51200	Motion picture and sound recording
	control, and airflow control machinery	01200	(except Internet)
	manufacturing	44100	Motor vehicle and parts dealers
33312	Construction machinery manufacturing	51110	Newspaper, periodical, book, and directory
23600	Construction of buildings		publishers (except internet)
33360	Engine, turbine, and power transmission	81200	Personal care, death care, laundry,
33200	equipment manufacturing Fabricated metal products manufacturing		and other personal services
33311	Farm machinery and equipment	51510	Radio and television broadcasting
55511	manufacturing	81190	(except Internet)
23700	Heavy and civil engineering construction	32591	Repair and maintenance, except automotive Soap, cleaning compound, and toilet
33322	Industrial machinery manufacturing, except	02001	preparations manufacturing
	semiconductor machinery	62400	Social assistance (except child day care
33390	Metalworking and other general purpose		services)
	machinery manufacturing	31300	Textile mill products
33313	Mining machinery and equipment	31220	Tobacco manufacturing
33651	manufacturing Railroad rolling stock manufacturing	72100	Traveler accommodation services
33660	Ship and boat building	_	
23800	Specialty trade contractors	Energy	
20000	opositivy trade contractors	21210	Coal mining
Comm	ercial and Professional Services	22110	Electric power generation, transmission,
(includ	ling contract research)	04400	and distribution
54120	Accounting, tax preparation, bookkeeping,	21100	Oil and gas extraction
	and payroll services	33313	Oil and gas field machinery and equipment manufacturing
54180	Advertising and related services	32400	Petroleum and coal products manufacturing
54130	Architectural, engineering, and related services	48610	Pipeline transportation of crude oil, refined
56140	Business support services	100.0	petroleum, and miscellaneous products,
53240	Commercial and industrial machinery		except natural gas
E4110	and equipment rental and leasing	56150	Travel arrangement and reservation services
54110 54160	Legal services Management, scientific, and technical		
34100	consulting services	Financi	als
56190	Office administrative, facilities, employment,	52230	Activities related to credit intermediation
	and other support services	52420	Agencies, brokerages, and other insurance
32300	Printing and related support activities	02.20	related activities
56290	Remediation and other waste	52210	Depository credit intermediation
	management services	52500	Funds, trusts, and other financial vehicles
54170	Research & development services	52410	Insurance carriers
54140	Specialized design services	52100	Monetary authorities-central bank
56150	Travel arrangement and reservation services	52220	Nondepository credit intermediation
I			



F0100	Dool octobe	22502	Daint adhasis and other sharring
53100	Real estate	32592	Paint, adhesive, and other chemical
52300	Securities, commodity contracts, and other	00000	manufacturing
	financial investments and related activities	32200	Paper manufacturing
Health	Cara	32530	Pesticide, fertilizer, and other agricultural
l .			chemical manufacturing
33451	Electromedical, electrotherapeutic and	32600	Plastics and rubber products manufacturing
	irradiation apparatus manufacturing	32512	Resin, synthetic rubber, and artificial
62210	General medical and surgical hospitals		synthetic fibers and filaments manufacturing
62160	Home health care services	32591	Soap, cleaning compound, and
32543	In-vitro diagnostic substances manufacturing		toilet preparations manufacturing
62150	Medical and diagnostic laboratories	21310	Support activities for solid
33910	Medical equipment and supplies manufacturing		mineral operations
62300	Nursing and residential care facilities	32100	Wood products manufacturing
62120	Offices of dentists and other health practitioners		•
62110	Offices of physicians	Teleco	mmunication Service
62190	Outpatient care centers and other ambulatory	51750	Cable and other program distribution
	health care services	51740	Satellite telecommunications
32541	Pharmaceutical, medicinal, botanical, and	51740	Wired telecommunications carriers
02011	biological products (except diagnostic)	51710	Wireless telecommunications carriers
	manufacturing	31720	
62220	Psychiatric, substance abuse, and specialty	E1700	(except satellite)
02220		51790	Telecommunications services (not listed
54170	hospitals		elsewhere)
54170	Research & development services	Tranen	ortation
Inform	ation Technology - Goods and Services	_	
1		48100	Air transportation
33429	Communication equipment manufacturing,	53210	Automotive equipment rental and leasing
	except broadcasting, wireless, and	49200	Couriers and messengers
	telephone apparatus	48200	Rail transportation
54150	Computer systems design and related services	48700	Scenic and sightseeing transportation
33410	Computers and peripheral equipment	48800	Support activities for transportation
	manufacturing	48500	Transit and ground passenger transportation
51820	Data processing, hosting, and related services	48400	Truck transportation
33500	Electrical equipment, appliances, and	49300	Warehousing and storage
	components manufacturing	48300	Water transportation
51900	Information services (not elsewhere listed		•
	in this category)	Utilitie	es
51810	Internet service providers and web	22110	Electric power generation, transmission,
• • • • •	search portals	22110	and distribution
33460	Manufacturing and reproducing magnetic and	22120	
00400	optical media manufacturing	22120	Natural gas distribution
33459	Measuring and control instruments	56290	Remediation and other waste
33433	manufacturing (not listed elsewhere in	F0040	management services
	this category)	56210	Waste collection, treatment, and disposal
33422	Radio and television broadcasting and	22130	Water, sewage, and other systems
33422			
	wireless communications equipment	Busine	ss Codes Not Elsewhere Classified
22452	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
l	components manufacturing	00000	elsewhere)
33321	Semiconductor machinery manufacturing	71200	Museums, historical sites, and similar
51120	Software	71200	institutions
33421	Telephone apparatus manufacturing	45490	Nonstore retailers, except electronic
		43430	shopping and mail-order houses
Materi	als	71100	Performing arts, spectator sports,
32511	Basic chemicals manufacturing	71100	and related industries
32790	Cement, concrete, lime, gypsum, and other	E4100	
32730	nonmetallic mineral product manufacturing	54190	Professional, scientific, and technical services
22710		45000	(not listed elsewhere)
32710	Clay and glass products manufacturing	45990	Retail trade stores, including gasoline stations
33150	Ferrous and nonferrous foundries	40=00	(not listed elsewhere)
33110	Iron and steel mills, ferroalloy, and	42500	Wholesale electronic markets and agents
04000	steel product from purchased steel		and brokers
21220	Metal ore mining		
33130	Nonferrous metals production and processing		
21230	Nonmetallic mineral mining and quarrying		



11018108

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

Who should answer this section?

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

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

What does this section cover?

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

What is the reporting unit?

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

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

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

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

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

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

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

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

How should dollar amounts be reported?

Report all dollar amounts rounded to the nearest thousand.

	\$Bil.		Mil		Т	hοι	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.



2•1	What was the total worldwide 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	фы. IVIII. THOU.
	 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 ex	pense reported in	\$Bil.	Mil.	Thou.	
	Question 2•1 was f	or gross annual payroll	-wages and salaries	ΨΒΠ.	IVIII.	Tilou.	
	of employees exclu	ding the cost of fringe	benefits?				
2•5	by others not owne	vorldwide R&D expense od by your company, re formed by the followin	ported in Question				
	organizations?	Tormou by the reneval.	9 17 100 01	\$Bil.	Mil.	Thou.	
	a. Companies located	d <u>inside</u> the United States					
	b. Companies located	d <u>outside</u> the United State	s				
	c. U.S. federal gover	nment agencies or labora	tories				
	d. U.S. state and loca	al government agencies o	r laboratories				
	e. Foreign governme	nt agencies or laboratorie	S				
		ges, and academic researd tors) located <u>inside</u> the U					
		ges, and academic researd tors) located <u>outside</u> the l					
	h. All other organizat	ions					
	i. Total R&D perfo	rmed by others (equals	Question 2·3, line b)				
2•6							
		&D performed by your ed in the countries list		orted in	ı Questi	ion 2•3,	
	line a, was perform	ed in the countries list our company by country s	ed below?				
	line a, was perform R&D performed by y	ed in the countries list our company by country s &D.	ed below?	ation wh	nere your		
	R&D performed by y company performed R&D a. United States	ed in the countries list our company by country s	ed below?				
	R&D performed by y company performed R&D	ed in the countries list our company by country s &D.	ed below?	ation wh	nere your		
	R&D performed by y company performed R&D a. United States	ed in the countries lists our company by country s &D. \$Bil. Mil. Thou.	ed below?	ation wh	nere your		
	R&D performed by y company performed R&D a. United States (domestic)	ed in the countries list our company by country s &D.	ed below? Should reflect the actual loc h. Ireland	ation wh	nere your		
	R&D performed by y company performed R&D a. United States (domestic)	ed in the countries lists our company by country s &D. \$Bil. Mil. Thou.	ed below? should reflect the actual loc h. Ireland	ation wh	nere your		
	a. United States (domestic)	ed in the countries lists our company by country s &D. \$Bil. Mil. Thou.	chould reflect the actual loc h. Ireland	ation wh	nere your		
	a. United States (domestic)	ed in the countries lists our company by country s &D. \$Bil. Mil. Thou.	chould reflect the actual loc h. Ireland	ation wh	nere your		
	a. United States (domestic)	ed in the countries lists our company by country s &D. \$Bil. Mil. Thou.	h. Ireland	ation wh	nere your	Thou.	
	a. United States (domestic)	ed in the countries lists our company by country s &D. \$Bil. Mil. Thou.	h. Ireland	ation wh	nere your	Thou.	

2•6	(Continued)			
	\$Bil. Mil. Thou.	\$Bil.	Mil.	Thou.
	o. Sweden			
	q, o			
	r. Total (equals Question 2·3,			
	p. United Kingdom line a)			
0.7		45		
2•7	How much of the domestic R&D performed by your company in 2008 reported in Question 2•6, line a, was paid for by your	\$Bil.	Mil.	Thou.
	company's foreign operations or foreign subsidiaries?			
2•8	How much of the domestic R&D performed by your company reported in Question 2•6, line a, was for the following types			
	of costs?	\$Bil.	Mil.	Thou.
	a. Gross annual payroll-wages and salaries of R&D employees			
	and officers excluding fringe benefits			
	b. Employer's cost for fringe benefits			
	Include:			
	Disability benefits Life and medical insurance			
	Paid holidays, time off benefits, vacation, annual, sick, and maternity leave			
	Retirement benefits, pension, and social security contributions			
	c. Stock-based compensation			
	d. Temporary staffing and leased employees			
	Include:			
	 Costs paid to Professional Employer Organizations (PEOs) and staffing agencies for personnel 			
	All charges for payroll, benefits, and services			
	e. Expensed equipment			
	C. Expensed equipment			
	f. Materials and supplies			
	g. Lease and rental payments			
	h. Depreciation and amortization on R&D property and equipment			
	i. All other costs			
	j. Total (equals Question 2.6, line a)			
	j. I otal (equals Question 2.0, line a)			

	\$Bil.	Mil.	Thou.		\$Bil.	Mil.	Tho
Alabama				Massachusetts	. 🛄		
Alaska				Michigan			
Alaska				wichigan			
Arizona				Minnesota			
Arkansas				Mississippi	. 📖		
California				Missouri			
Colorado				Montana			
Connecticut				Nebraska			
Delaware				Nevada			
District of Columbia				New Hampshire			
Florida		1 1		·		<u> </u>	
Florida				New Jersey			
Georgia				New Mexico			
Hawaii				New York	. 📖		
ldaho				North Carolina			
Illinois				North Dakota			
Indiana				Ohio			
lowa				Oklahoma	. 📖		
Kansas				Oregon			
				, and the second			
Kentucky				Pennsylvania			
Louisiana				Rhode Island			
Maine				South Carolina	. 📖		
Maryland				South Dakota			

Tennessee	Tennessee	Tennessee	Tennessee		(Continued)							
Texas	Texas	Texas	Tennessee			\$Bil.	Mil.	Thou.		\$Bil.	Mil.	Thou.
Texas	Texas	Texas	Texas		Tennessee				Washington			
Utah	Utah	Utah	Utah									
Vermont	Vermont	Vermont	Vermont		Texas				West Virginia			
Vermont	Vermont	Vermont	Vermont		Utah				Wisconsin			
Virginia	Virginia	Virginia	Virginia		Vermont				Wyoming			
At what domestic location did your company perform the largest dollar amount of R&D in 2008? Address 1 Address 2 City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•10?	At what domestic location did your company perform the largest dollar amount of R&D in 2008? Address 1 Address 2 City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•10?	At what domestic location did your company perform the largest dollar amount of R&D in 2008? Address 1 Address 2 City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•10?	At what domestic location did your company perform the largest dollar amount of R&D in 2008? Address 1 Address 2 City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•10?		Mantala				Total (equals			
R&D in 2008? Address 1 Address 2 City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	R&D in 2008? Address 1 Address 2 City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	R&D in 2008? Address 1 Address 2 City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	R&D in 2008? Address 1 Address 2 City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102		virginia				Question 2.6, line a)			
Address 2 City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	Address 2 City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	Address 2 City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	Address 2 City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	0		ocatio	on did yo	ur comp	any perform the larges	t dolla	r amoun	t of
City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•10?	City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•10?	City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•10?									
City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102									
City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•10?	City State ZIP How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102		Address 2							
How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•10?	How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the	How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	1 How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the									
How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•10?	How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the	How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the location identified in Question 2•102	1 How much of the domestic R&D performed by your company reported in Question 2•6, line a, was from the									
company reported in Question 2•6, line a, was from the	company reported in Question 2•6, line a, was from the	company reported in Question 2•6, line a, was from the	company reported in Question 2•6, line a, was from the		City					State	ZIP	
company reported in Question 2•6, line a, was from the	company reported in Question 2•6, line a, was from the	company reported in Question 2•6, line a, was from the	company reported in Question 2•6, line a, was from the		City					State	ZIP	
location identified in Question 2-102		City					State	ZIP				
				1	How much of the d	omest	tic R&D	performe	ed by your			Thou.
				1	How much of the d	in Que	estion 2.	6, line a,	ed by your was from the		Mil.	
				1	How much of the d	in Que	estion 2.	6, line a,	ed by your was from the		Mil.	Thou.
				1	How much of the d	in Que	estion 2.	6, line a,	ed by your was from the		Mil.	

R&D	by business code			
2•12	How much of the <u>worldwide R&D expense</u> reported in Question business code listed or amended on page 6 of this form?	2•1 wa	as for ea	ch
	Allocate R&D that is applicable to more than one business code on a r Allocation in proportion to operating revenues is acceptable unless some alter more appropriate.			basis is
	Business Code	World	lwide R&D	expense
	(see page 6)	\$Bil.	Mil.	Thou.
	a			
	a			
	b			

2.12	How much of the worldwide R&D expense reported in
2.19	· · · · · · · · · · · · · · · · · · ·
	Question 2•1 was a domestic R&D expense–R&D paid for by
	vour company's domestic operations?

i. **Total** (equals Question 2·1).....

\$Bil.	Mil.	Thou.
	1 1	1 1



e.

f.

Business Co				(1) Domest R&D expe			(2) stic R&D p	
(see page 6			\$Bil.	Mil.	Thou.	\$Bil.	Mil.	
								F
			📖					L
				1 1				Г
								L
								F
			L					
								Γ
								L
			Total e	quals Que	estion 2·13	Total e	quals Que line a	98
, much of	f vour comp	any's domest	io conital	ovnondi	turos	\$Bil.	Mil.	Γ
	for R&D ope		ic capitai	expellu	tures			Γ
								L
		tic capital exp						
erations re egories?	eported in Qu	uestion 2•15	was for tl	ne follov	ving	\$Bil.	Mil.	
il actures.								Ī
quipment								L
	6.							
pitalized	software							T
other ca	pital expendit	tures for R&D o	operations					
		expenditures						Τ
		· · · · · · · · · · · · · · · ·						

				1110 2000	p. 0,00	tion or v	vhat is re			
								\$Bil.	Mil.	Thou
a.	R&D performed	by your c	ompany a	at domes	stic loc	ations				
b.	R&D performed	by your c	ompany a	at foreigr	n locati	ons				
C.	R&D performed such as contract government lab	t research	organizat	ions, un	iversiti	es, and				
	Include: • If your compand for R&D perform				ur R&D	expense	that paid			
d.	Total projecte	d worldw	ide R&D	expens	e for 2	2009				
port	ing informat	ion								
8 Is	the informatio	n in this s	section r	eported	on a	calenda	r year ba	isis?		
Г	Yes → Conti i	nue								
L	No → Enter t	-				00000				
	Г	· · · · · · · · · · · · · · · · · · ·	YYYY)	(1	MM)	(YYYY)				
	From			То						
										Ног
				e to cor	nplete	Sectio	n 2?			
9 A	oproximately h	ow long d	lid it tak							
								ta for t	his sect	ion.
0 PI	oproximately he					vho pro		ta for t	his sect	ion.
					sons v	vho pro		ta for t	his sect	ion.
0 PI					sons v	vho pro		ta for t	his sect	ion.
0 PI					sons v	vho pro		ta for t	his sect	ion.

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.



		\$Bil.	Mil.	Thou
3•1	Copy the amount reported in Question 2•1-your company's worldwide R&D expense in 2008.	\$BII.	IVIII.	Thou.
3•2	Copy the amount reported in Question 2•6, line a-R&D	\$Bil.	Mil.	Thou.
	expense performed by your company in the domestic United States in 2008.			
3•3	Copy the amount reported in Question 2•3, line b-2008	\$Bil.	Mil.	Thou.
	R&D performed by others not owned by your company, such as contract research organizations, universities, or			
	government labs.			
Wor	Idwide R&D expense			
3•4	What percentage of the <u>worldwide R&D expense</u> in 2008 reported Question 3•1 was directed toward <u>business areas or product line</u> which your company had <u>no revenues</u> before 2008?			
	Example: Company A is an automobile manufacturer. In 2008, it began R&D company's first motorcycle. Because Company A had no previous revenues fo motorcycles, it is a new business area for the company. The expense for this Fincluded in the calculation for this question.	r		Percent %
3•5	What percentage of the worldwide R&D expense in 2008 reporter Question 3•1 involved science/technology that your company has used in projects before 2008? Example: Company B is an automobile manufacturer. In 2008, it began to expense fuel cells in its vehicles. Because Company B had not used this technology is incompany and the second science of the science of the second science of the second science of the second	d not lore usin	9	Percent %
3•6	before 2008, it is new for the company. The expense for this R&D is included i calculation for this question. What percentage of the worldwide R&D expense in 2008 reporte Question 3•1 was both directed toward business areas or production which your company had no revenues before 2008 and involve science/technology that had not been used by your company in oprojects before 2008?	ed in et lines ed		
	Example: Company C is an automobile manufacturer. In 2008, it began a projected by the company's first motorcycle. At the same time, C begins to explore hydrogen fuel cell technology in its vehicles—including motorcycles. Because manufacturing is a new business area for C and the company had no experien hydrogen fuel cell technology before 2008, it would include the hydrogen fuel related to its motorcycle project in the calculation for this question.	using otorcycl ce with		Percent %
3•7	What percentage of the worldwide R&D expense in 2008 reporte Question 3•1 was for R&D in science/technology new to the mar (i.e. first-to-market) in which your company operates?			
	 Exclude R&D to improve upon, replicate, or adopt science/technology currently in use market(s) in which your company operates 	in the		Percent %
	Example: Company D manufactures cookware. In 2008, it devotes 10% of its F expense to exploring the potential use in its products of a heat-conducting ma currently used only by the aerospace industry. The remainder of D's R&D is fo improving products and technology already used in the cookware market. Com	terial cused or	1	



reports 10% for this question.

What percentage of the worldwide R&D expense in 2008 reported in Question 3•1 was for R&D agreements with for-profit companies? 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? 3•11 What percentage of the worldwide R&D expense in 2008 reported in Question 3•1 was for R&D agreements with universities, colleges, and academic researchers, including individual principal investigators? 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? 3•12 In 2008, how many new R&D agreements with nonprofit organizations with refollowing types of organizations? 3•14 Did the new R&D agreements reported in Question 3•13 involve agreements with the following types of organizations? a. For-profit companies located inside the United States	Wor	Idwide R&D agreements				
undertake R&D and share in any resulting intellectual property. R&D agreements involve shared risk and shared reward. What percentage of the worldwide R&D expense in 2008 reported in Question 3•1 was for R&D agreements with for-profit companies? %	3•8		1			
What percentage of the worldwide R&D expense in 2008 reported in Question 3•1 was for R&D agreements with for-profit companies? 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? What percentage of the worldwide R&D expense in 2008 reported in Question 3•1 was for R&D agreements with universities, colleges, and academic researchers, including individual principal investigators? 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? 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? Number Did the new R&D agreements reported in Question 3•13 involve agreements with the following types of organizations? a. For-profit companies located inside the United States		undertake R&D and share in any resulting intellectual property. R&D agreements in	volve		Percer	nt %
Question 3-1 was for R&D agreements with U.S. federal government agencies or laboratories? 3-11 What percentage of the worldwide R&D expense in 2008 reported in Question 3-1 was for R&D agreements with universities, colleges, and academic researchers, including individual principal investigators? 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? 3-13 In 2008, how many new R&D agreements did your company enter into? 3-14 Did the new R&D agreements reported in Question 3-13 involve agreements with the following types of organizations? a. For-profit companies located inside the United States	3•9		l		Percer	nt %
Question 3-1 was for R&D agreements with universities, colleges, and academic researchers, including individual principal investigators? 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? 3-13 In 2008, how many new R&D agreements did your company enter into? Number of organizations? a. For-profit companies located inside the United States	3•10	Question 3•1 was for R&D agreements with U.S. federal government			Percer	%
Question 3-1 was for R&D agreements with nonprofit organizations other than universities and colleges? Number Solution Soluti	3•11	Question 3•1 was for R&D agreements with universities, colleges, a			Percer	nt %
In 2008, how many new R&D agreements did your company enter into? 3-14 Did the new R&D agreements reported in Question 3-13 involve agreements with the following types of organizations? a. For-profit companies located inside the United States Yes No. No. Yes No. No. Yes No. No. Yes No. No. Yes No. Yes No. No. Yes No. No. Yes No. No. Yes No.	3•12	Question 3•1 was for R&D agreements with nonprofit organizations			Percer	nt %
a. For-profit companies located inside the United States	3•13	In 2008, how many <u>new</u> R&D agreements did your company enter in	ito?		Num	ber
b. For-profit companies located outside the United States	3•14		eem	ents w	ith t	he
c. U.S. federal government agencies or laboratories		a. For-profit companies located <u>inside</u> the United States		Yes		No
d. Universities, colleges, and academic researchers, including individual principal investigators		b. For-profit companies located <u>outside</u> the United States		Yes		No
individual principal investigators				Yes		No
e. Foreign government agencies or laboratories				Yes		No
		e. Foreign government agencies or laboratories		Yes		No
3-15 Did the new R&D agreements reported in Question 3-13 involve agreements with	3•15	Did the new R&D agreements reported in Question 3•13 involve agr	eem	ents w	/ith	
the following?						
a. customers		a. Customers				No
b. Vendors/suppliers Yes No		b. Vendors/suppliers		Yes		No
c. Competitors		c. Competitors		Yes		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	What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 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 %
0.47	Management of the control of the con	
3•17	If you reported any research in Question 3•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	%
	-	1 0 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	
	%

3•19 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.

l	Percent	t
		%

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 <u>and</u> 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.





What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 was for R&D in science/technology new to the market(s) (i.e. first-to-market) in which your company operates?	
 Exclude: R&D to improve upon, replicate, or adopt science/technology currently in use in the market(s) in which your company operates. 	Percent %
Example: Company H manufactures cookware. In 2008, 10% of its domestic R&D performed by its company is for exploring the potential use in its products of a heat-conducting material currently used only by the aerospace industry. The remainder of H's domestic R&D performed by its company is focused on improving products and technology already used in the cookware market. Company H reports 10% for this question.	
Areas of application for domestic R&D performed by your company	
What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 had defense applications, including military applications and general security-related R&D?	Percent %
What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 had <u>health or medical applications</u> ?	Percent %
What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 had energy applications, including energy production, distribution, storage, and efficiency (excluding exploration and prospecting)?	
Example: Company I 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 this, Company I reports "10%" for this question.	Percent %
What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 had environmental protection applications, including pollution abatement R&D?	Percent %
3•26 What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 had <u>agricultural applications</u> ?	Percent %
Technology focus of domestic R&D performed by your company	
What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 was for software products?	Percent %
3•28 What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 was for software embedded in other projects or products?	Percent %
What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 was for the development of new or significantly improved processes?	Percent %



3•30	What percentage of the domestic R&D performed by your company in 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?	Percent %
3•32	What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 was for the operation of pilot plants?	Percent %
3•33	What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 was for biotechnology-the use of cellular and bio-molecular processes to solve problems or make useful products?	Percent %
3•34	What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 was for <u>nanotechnology</u> -science and technology involving work at the nanometer scale?	Percent %
3•35	What percentage of the domestic R&D performed by your company in 2008 reported in Question 3•2 was for <u>social sciences</u> —the application of scientific methods to the study of human aspects of the world, including such disciplines as economics and psychology?	Percent %
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	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 	%
3•37	 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	%
3•37	 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	%
3•37	 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	% % 1 0 0 %
3•37	 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	% 1 0 0 %
3•37	 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	% % % Percent %
3•37	 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	% 1 0 0 % Percent %
	 a. Research-planned, systematic pursuit of new knowledge or understanding b. Development-systematic use of research and practical experience to produce new or significantly improved goods, services, or processes	% Percent % Percent 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	۱.
Example: If figure is \$179,125,628.00 report:		1	7	9	1	2	6

Are estimates acceptable?

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

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

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

What time period should be reported?

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

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



Mil.

Thou.

\$Bil.

Worldwide R&D	performed by	vour company

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
4.5	
	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?

by your company, such as subcontractors or subgrantees?	\$Bil.	Mil.	Thou.
a. R&D performed by your company			
a. N&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



	\$Bil.	Mil.	Thou.		\$Bil.	Mil.	-
a. United States	7-11				7-11		
(domestic)				j. Italy			
							Π
b. Puerto Rico				k. Japan			
				·			Π
c. Canada				I. Russia			
		T					Π
d. China				m. Singapore			
				iii. Giiigaporoi i i i i			
e. France				n. South Korea			
e. Flance	•			II. South Korea			
0				0 1			
Germany				o. Sweden			
ı. India				p. United Kingdom			
n. Ireland	. L			q. All other			
				r. Total (equals			
. Israel				Question 4.2,			
How much of the others reported in	domesti Questic	c 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 others reported in on page 6 of this fallocate R&D that	domesti Questic form? is applic	c R&D on 4•4, able to r	performe line a, wa more than	d by your company th	nat was ode list	funded ted or an	b _y
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low much of the others reported in page 6 of this factorial and the control of th	domesti Questic form? is applic	c R&D on 4•4, able to r	performe line a, wa more than	d by your company the start of	nat was ode list reasonate	funded ted or and tel basis.	by me



Continued Business Code (see page 6) SBiil Mill. Thou.						
SBIL Mil. Thou.	4•5	(Continued)				
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? a. Gross annual payroll–wages and salaries of R&D employees and officers excluding fringe benefits b. Employer's cost for fringe benefits • Life and medical insurance • Paid holidays, time off benefits, vacation, annual, sick, and maternity leave • Retirement benefits, pension, and social security contributions c. Stock-based compensation d. Temporary staffing and leased employees Include: • Costs paid to Professional Employer Organizations (PEOs) and staffing agencies for personnel • All charges for payroll, benefits, and services e. Expensed equipment f. Materials and supplies g. Lease and rental payments h. Depreciation and amortization on R&D property and equipment i. All other costs			\$Bil.	Thou		
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and officers excluding fringe benefits b. Employer's cost for fringe benefits life and medical insurance Paid holidays, time off benefits, vacation, annual, sick, and maternity leave Retirement benefits, pension, and social security contributions c. Stock-based compensation d. Temporary staffing and leased employees Include: Costs paid to Professional Employer Organizations (PEOs) and staffing agencies for personnel All charges for payroll, benefits, and services e. Expensed equipment f. Materials and supplies g. Lease and rental payments h. Depreciation and amortization on R&D property and equipment i. All other costs		a. Gross annual navroll-wages and salaries of R&D employe	000	\$Bil.	Mil.	Thou.
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Include: Costs paid to Professional Employer Organizations (PEOs) and staffing agencies for personnel All charges for payroll, benefits, and services e. Expensed equipment f. Materials and supplies g. Lease and rental payments h. Depreciation and amortization on R&D property and equipment i. All other costs		c. Stock-based compensation				
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f. Materials and supplies		 Costs paid to Professional Employer Organizations (PEOs) an agencies for personnel 	nd staffing			
f. Materials and supplies						
g. Lease and rental payments		e. Expensed equipment				
g. Lease and rental payments		f. Materials and supplies				
h. Depreciation and amortization on R&D property and equipment		• •				
i. All other costs		g. Lease and rental payments				
i. All other costs		h Depresiation and amortization on P&D property and equi	inmont			
		ii. Depreciation and amortization on N&D property and equi	ipinient			
j. Total (equals Question 4-4, line a)		i. All other costs				
j. Total (equals Question 4-4, line a)						
		j. Total (equals Question 4-4, line a)				



SECTION 4					
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4•7	How much of the domestic R&D performed by your company that was funded by others reported in Question 4•4, line a, was performed under each of the following types of agreements?			
	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 the others reported in Question 4•4, line a, was <u>funded by each of the second s</u>			by
	IncludeIf your company is a subcontractor or subgrantee, report the original source	of fund	ing	
	Example: Company K is a car manufacturer and Company L is a glass manufacturer and Company K is awarded a U.S. federal government contract to develop a new to Company K performs some of the R&D itself and subcontracts the development	ype of a	armored c	
	glass windshield to Company L. Both Company K and Company L would incluthis project in the calculation for line c of this question.	de their	R&D cost	
		de their	R&D cost	
				s for
				s for
	this project in the calculation for line c of this question.			s for
	this project in the calculation for line c of this question.			s for
	this project in the calculation for line c of this question. a. Other companies located <u>inside</u> the United States			s for
	this project in the calculation for line c of this question. a. Other companies located <u>inside</u> the United States			s for
	a. Other companies located <u>inside</u> the United States. b. Other companies located <u>outside</u> the United States c. U.S. federal government agencies or laboratories			s for
	a. Other companies located <u>inside</u> the United States b. Other companies located <u>outside</u> the United States			s for
	a. Other companies located <u>inside</u> the United States b. Other companies located <u>outside</u> the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories			s for
	a. Other companies located <u>inside</u> the United States b. Other companies located <u>outside</u> the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories	\$Bil.		s for
	a. Other companies located <u>inside</u> the United States. b. Other companies located <u>outside</u> the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.)	\$Bil.	Mil.	s for
	a. Other companies located <u>inside</u> the United States. b. Other companies located <u>outside</u> the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.)	\$Bil.	Mil.	s for
	a. Other companies located <u>inside</u> the United States. b. Other companies located <u>outside</u> the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories	\$Bil.	Mil.	s for
	a. Other companies located <u>inside</u> the United States. b. Other companies located <u>outside</u> the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories	\$Bil.	Mil.	s for
	a. Other companies located <u>inside</u> the United States. b. Other companies located <u>outside</u> the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories f. All other organizations <u>inside</u> the United States.	\$Bil.	Mil.	s for
	a. Other companies located <u>inside</u> the United States. b. Other companies located <u>outside</u> the United States c. U.S. federal government agencies or laboratories d. U.S. state government agencies or laboratories (50 United States and D.C.) e. Foreign government agencies or laboratories f. All other organizations <u>inside</u> the United States.	\$Bil.	Mil.	s for



	in Question 4•8, lines a and b, was funded by the following types of companies?			
		\$Bil.	Mil.	Thou.
	A	'		
	a. Aerospace			
		'		' '
	b. Computer products			
	Electronic conducts			
	c. Electronic products			
	d. Motor vehicles			
	d. Motor venicles			
	e. Petrochemicals			
	e. retrochemicals			
	f. Pharmaceuticals			
	i. Filatifiaceuticais			
	g. All other companies			
	g. All other companies			
	h. Total (equals Question 4-8, lines a and b)			
	ii. Fotal (equals Question 4-0, iiiles à and b)			
•10	How much of the R&D funded by U.S. federal government agencies or laboratories reported in Question 4•8, line c, was			
	funded by the following agencies?	\$Bil.	Mil.	Thou.
	a. Department of Defense			
	a. Department of Defense			
	b. Department of Energy			
	b. Department of Energy			
	b. Department of Energy			
	b. Department of Energy c. National Aeronautics and Space Administration d. National Institutes of Health			
	b. Department of Energy			
	b. Department of Energy			
	b. Department of Energy c. National Aeronautics and Space Administration d. National Institutes of Health			
	b. Department of Energy. c. National Aeronautics and Space Administration. d. National Institutes of Health. e. All other			
•11	b. Department of Energy			
•11	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			
•11	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			

4•12	How much of the follo	owing three	funded R&D	amounts	was į	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) Federal	I	(2) (3 Nonfederal To		(3) Total			
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.
Alabama									
Alaska									
Arizona									
Arkansas									
California									
Colorado									
Connecticut									
Delaware									
District of Columbia									
Florida									
Georgia									
Hawaii									
Idaho									
Illinois									
Indiana									
lowa									
Kansas									
Kentucky									
Louisiana									

Question continues on next page

(Continued)		(1) Federa	ı		(2) Nonfede	ral		(3) Total	
	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou.	\$Bil.	Mil.	Thou
Maine									
Maryland									
lassachusetts									
chigan									
nnesota									
ssissippi									
ssissippi									
ssouri									
lontana									
lebraska									
vada									
ew Hampshire									
ew Jersey									
ew Mexico									
lew iviexico									
New York									
North Carolina									
North Dakota									
hio									
Oklahoma									
Oregon		' '			'			' '	
ennsylvania									
Rhode Island									

•12 (Continued)							
	(1) Federal	(2) Nonfederal		(3) Total			
	\$Bil. Mil. Thou.	\$Bil. Mil. Tho	u. \$Bil.	Mil.	Thou.		
South Carolina							
0 11 5 1 1							
South Dakota							
Tennessee							
Texas							
Utah							
Vermont							
Virginia							
Washington							
West Virginia							
Wisconsin							
Wyoming							
Total							
	Total equals Question 48, line c		Tota	l equals C 4·4, line			
	ompany's <u>worldwide</u> pro		\$Bil.	Mil.	Thou.		
2009 for R&D population paid for by othe	erformed by your compa rs?	any that will be					
	e projected costs in <u>200</u> our company that will be		\$Bil.	Mil.	Thou.		
	in Question 4.13 will be						
How much of th	e projected costs in <u>200</u> by your company that v	9 for <u>domestic</u>	\$Bil.	Mil.	Thou.		
others reported	others reported in Question 4•14 will be paid for by U.S. federal government agencies?						
U.S. tederal dov	O.O. Touchar government agencies:						



	racteristics of domestic R&D performed by your company that v	vas	5	
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?		Perc	ent
	a. Research-planned, systematic pursuit of new knowledge or understanding			%
	b. <u>Development</u> -systematic use of research and practical experience to produce new or significantly improved goods, services, or processes			%
	c. Total	1	0	0 %
4•17	If you reported any research in Question 4•16, line a, what percentage of that research was for the following categories?		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			%
	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)?		Perc	ent %
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> ?		Perc	ent %
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?		Perc	ent %
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?		Perc	ent %
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.		Perc	ent %
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?		Perc	ent %



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	What percentage of the domestic R&D performed by your company that was funded by others reported in Question 4•4, line a, had agricultural applications?	Percent %
Chara was	acteristics of domestic R&D performed by your company that 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? a. <u>Research</u> -planned, systematic pursuit of new knowledge or understanding	Percent %
	 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 %
	If you reported any research in Question 4•25, line a, what percentage of that research was for the following categories?	Percent
	a. Applied research–activity aimed at solving a specific problem or meeting a specific commercial objective	%
	b. Basic research—activity aimed at acquiring new knowledge or understanding without specific immediate commercial application or use	
	c. Total	1 0 0 %
	What percentage of the domestic R&D performed by your company that was funded by <u>U.S. federal government agencies or laboratories</u> reported in Question 4•8, line c, was for the <u>production of prototypes</u> ?	Percent %



Reporting information						
4-28 Is the information in this section reported on a calendar year basis?						
Yes → Continue						
No → Enter time period covered below:						
(MM) (YYYY) (MM) (YYYY)						
From To 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	1					



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 (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.

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.

Enter of his quotien of outagory about her apply to your o

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 empworldwide for the pay period that Include: • For the domestic employees, all employ IRS Form 941, Employer's Quarterly Fed • Employees in all activities during the pa • Employees on paid sick leave, paid holic pay period that included March 12, 2008 Exclude: • Leased or temporary employees and on	ees whose payroll wateral Tax Return y period that included days, and paid vacation	as reported on s March 12, 2008	Number
5•2	How many of your company's total in Question 5•1 were R&D employed Include: • R&D scientists, engineers, managers, teal and interns Exclude: • Staff providing indirect support, such as	ees? chnicians, administra	tors, clerical staff,	Number
5•3	How many of the worldwide R&D (1) female employees, (2) male emin the R&D occupations listed below a. R&D engineers and their managers. 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 worldwide R&D employees.	(1) Female Employees		
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	B, lines a and b, heducational degrals MD, JD, and EdD	ow many ee?))	



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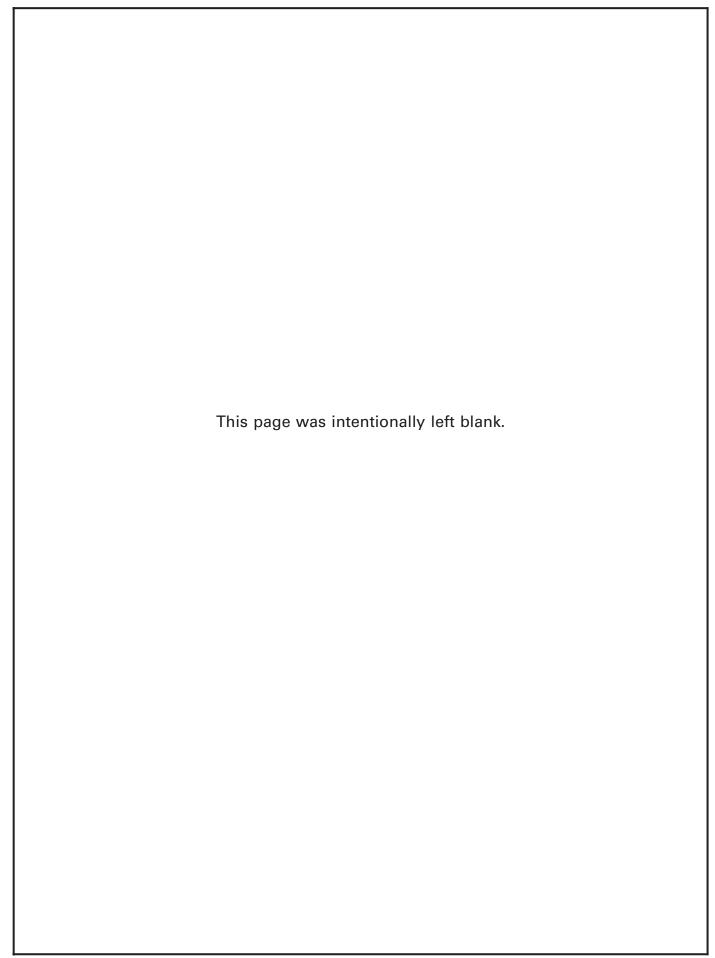
Don	nestic employees			
5•5	How many of the worldwide empl were domestic employees-employ operations?			
	 Include: All employees whose payroll was report Quarterly Federal Tax Return Employees on paid sick leave, paid holiopay period that included March 12, 200 	idays, and paid vacati	. ,	Number
5•6	How many of your company's tota Question 5•5 were R&D employee		oyees reported in	
	Include:R&D scientists, engineers, managers, to and interns	echnicians, administra	tors, clerical staff,	Number
	Exclude: • Staff providing indirect support, such a	s security guards and	cafeteria workers	
5•7	How many of the domestic R&D e (1) female employees, (2) male em in the R&D occupations listed below	ployees, and (3) t		
		(1) Female Employees	(2) Male Employees	(3) Total Employees
	a. R&D engineers and their managers	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 domestic R&D scientists and engineers and their managers reported in Question 5•7, lines a and b, were non-U.S. citizens employed in the United States under a temporary visa, such as H-1B or L-1?	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 this Name	s section.





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?

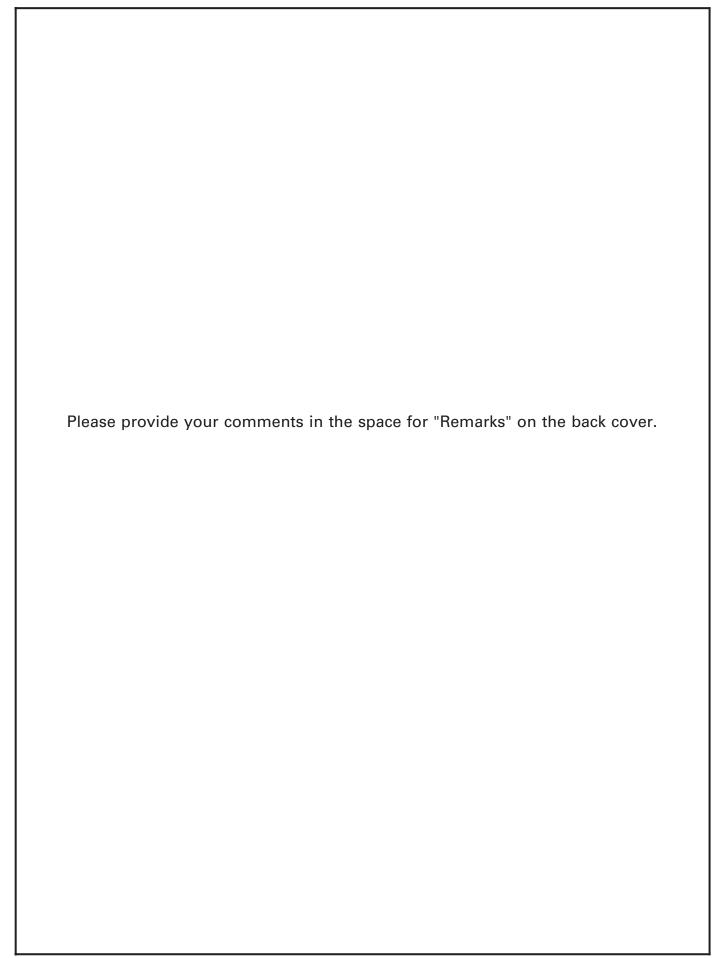


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		id your company perform the following activities in 2008?				
company through participation in technical assistance or "know how" agreements C. Transferred intellectual property to a spin-off or spin-out of your company. d. Received intellectual 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		
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	c.			Yes		
f. Acquired any financial interest in another company in order to gain access to their intellectual property	d.			Yes		
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 O 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	e.			Yes		
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. Puring 2008, how important to your company were the following types of intellectual property protection? Burling 2008, how important to your company were the following types of intellectual property protection? C. Utility patents (patents for invention) C. Trademarks. C. Trade secrets	f.			Yes		
by your company (for example, allowing free use of software patents by the open source community)	g.	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		Yes		
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.	h.	by your company (for example, allowing free use of software		Yes		
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	i.			Yes		
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	:elle	ctual property protection				
b. Design patents (patents for appearance). c. Trademarks. d. Copyrights. e. Trade secrets.		llowing types of intellectual property protection?	,	 		
c. Trademarks. d. Copyrights e. Trade secrets	a.	Utility patents (patents for invention)				
d. Copyrights	b	Design patents (patents for appearance)			[_
e. Trade secrets	C.	Trademarks			[
e. Trade secrets	d	Copyrights			[
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.)
We estimate that it will take from 5 to 25 hours to complete this forms with 14.0 hours being the events
We estimate that it will take from .5 to 25 hours to complete this form, with 14.9 hours being the average. This includes time to read instructions, develop or assemble material, conduct tests, organize and review the information, and maintain and report the information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to:
Paperwork Project 0607-0912, U.S. Census Bureau 4600 Silver Hill Road AMSD-3K138 Washington, D.C. 20233
You may e-mail comments to Paperwork@census.gov; use "Paperwork Project 0607-0912" as the subject.
~ Thank you for completing your 2008 Business R&D and Innovation Survey ~
PLEASE MAKE A COPY OF THIS FORM FOR YOUR RECORDS AND RETURN THE ORIGINAL

