



2007 SURVEY OF INDUSTRIAL RESEARCH AND DEVELOPMENT

Mail your completed form to:
U.S. CENSUS BUREAU
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Jeffersonville, IN 47132-0001

Please **read** the accompanying instructions before answering the questions.

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Visit our Web site at www.census.gov/econhelp/rd

To **speak** with an analyst, call 1-800-851-2014, option "0" between 8:00 a.m. and 5:00 p.m., Eastern time, Monday through Friday.

- OR -

Write to the address above, include your 11-digit Identification Number (ID) printed in the mailing address.

Option to file electronically is located at www.census.gov/econhelp/rd

**INFORMATION COPY
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(Please correct any errors in this mailing address.)

YOUR RESPONSE IS REQUIRED BY LAW. Title 13, United States Code, requires businesses and other organizations that receive this questionnaire to answer the questions and return the report to the U.S. Census Bureau. By the same law, **YOUR CENSUS REPORT IS CONFIDENTIAL.** It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. Further, copies retained in respondents' files are immune from legal process. Data supplied in all items for 2007 on this form will satisfy the mandatory reporting requirements. (Title 13, U.S. Code.) Except as noted in specific questions, this report should cover your entire consolidated domestic enterprise, **including all subsidiaries** in the 50 United States and D.C. Reasonable estimates are acceptable.

This survey is conducted jointly with the National Science Foundation.

1 Was this company owned or controlled by another company on December 31, 2007?

001 Yes - See instructions to determine if you should complete this questionnaire.

No - Go to **2**.

Dollar figures should be rounded to thousands of dollars.

If a figure is **\$1,025,628.79: Report** →

2007		
\$ Billions	Millions	Thousands
	1	026

2 What was the amount of your company's **sales, shipments, operating receipts, or revenues**, net of returns and allowances attributable to domestic operations in the 50 United States or D.C. during 2007? (EXCLUDE domestic intracompany transfers and sales by foreign subsidiaries. INCLUDE receipts for sales of products and services provided to other companies, individuals, U.S. Government agencies, and foreign countries.) Mark "X" if None

Amount reported for 2006

2007		
\$ Billions	Millions	Thousands
102		

3 How many **employees** worked in the 50 United States or D.C. for your company on March 12, 2007? (INCLUDE number of full- and part-time employees whose payroll was reported on Internal Revenue Service Form 941, Employer's Quarterly Federal Tax Return.) Mark "X" if None

Amount reported for 2006

Number
112

11000015



4 What was the number of full-time equivalent (FTE) **scientists and engineers** employed by your company as of January 1, 2008 who worked on the following types of R&D in the 50 United States and D.C. during 2007?

(See Instructions for the definition of FTE scientists and engineers.)

January 1, 2008									
Number of FTEs									
204									
205									
206									

A. Federally funded R&D Mark "X" if None 0132

Number of FTEs reported as of January 1, 2007

B. Company and other nonfederally funded R&D. Mark "X" if None 0133

Number of FTEs reported as of January 1, 2007

C. TOTAL (Add lines A and B.) Mark "X" if None 0134

Number of FTEs reported as of January 1, 2007

5 What was the cost of R&D performed within your company **in the 50 United States and D.C.** from each of the sources of funding below during 2007?

A. Basic research (Activity toward the advancement of scientific knowledge without specific immediate commercial objectives.)

Mark "X" if no basic research 0135

Amount reported for 2006

2007									
(1) Federal funds			(2) Company and other nonfederal funds			(3) Total funds Columns 1 + 2			
\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands	
304			305			306			

B. Applied research (Activity directed primarily towards a specific commercial or practical objective.)

Mark "X" if no applied research. . . . 0136

Amount reported for 2006

(1) Federal funds			(2) Company and other nonfederal funds			(3) Total funds Columns 1 + 2		
\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
314			315			316		

C. Development (Activity translating research into new or improved products, services, or processes.)

Mark "X" if no development 0137

Amount reported for 2006

(1) Federal funds			(2) Company and other nonfederal funds			(3) Total funds Columns 1 + 2		
\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
324			325			326		

D. TOTAL (Add lines A through C.)

Mark "X" if no R&D 0138

Amount reported for 2006

(1) Federal funds			(2) Company and other nonfederal funds			(3) Total funds Columns 1 + 2		
\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
344			345			346		

11000023



If not shown, please enter your 11-digit Identification Number (ID) from the mailing address.

6 If your company plans to perform R&D during 2008, what is the projected cost?

(Comparable to the 2007 figure reported in 5, line D.)

Mark "X" if no R&D is planned for next year . . . 0139

2008								
(1) Federal funds			(2) Company and other nonfederal funds			(3) Total funds Columns 1 + 2		
\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
403			402			401		

7 If others outside your company performed R&D funded by your company, what was the cost of the R&D performed in the 50 United States and D.C. during 2007?

(Include payments made via contracts, grants, or other agreements under which your company pays for but **does not perform** any of the R&D.)

Mark "X" if no R&D was performed by others 0140

Amount reported for 2006

2007								
(1) Federal funds			(2) Company and other nonfederal funds			(3) Total funds Columns 1 + 2		
\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
354			355			356		

8 What was the cost of the R&D reported in 7, column 2, performed by each of the following **types of organizations?**

A. For-profit companiesMark "X" if None 0141

Amount reported for 2006

B. Federal agencies or laboratoriesMark "X" if None 0142

Amount reported for 2006

C. State government agencies or laboratoriesMark "X" if None 0143

Amount reported for 2006

D. Universities or collegesMark "X" if None 0144

Amount reported for 2006

E. Other nonprofit organizationsMark "X" if None 0145

Amount reported for 2006

F. TOTAL (Add lines A through E. The sum should equal the total reported in 7, column 2.)Mark "X" if None 0146

Amount reported for 2006

2007		
Company and other nonfederal funds		
\$ Billions	Millions	Thousands
811		
812		
813		
821		
831		
841		

11000031



9 What were your company's costs for R&D that your company performed within a joint venture, alliance, partnership, or other collaborative arrangement in the 50 United States and D.C. during 2007? Please report costs separately for each type of partner listed below. (INCLUDE R&D your company performed in the 50 United States and D.C. regardless of the location of the other parties.)

(These expenditures should also be included as part of the information reported in **5**, line D, column 2. Do not include costs reported in **3**.)

2007		
Company and other nonfederal funds		
\$ Billions	Millions	Thousands
1101		
Amount reported for 2006		
1102		
Amount reported for 2006		
1105		
Amount reported for 2006		
1103		
Amount reported for 2006		
1104		
Amount reported for 2006		
1110		
Amount reported for 2006		

A. For-profit companies Mark "X" if None 0186

Amount reported for 2006

B. Federal agencies or laboratories Mark "X" if None 0187

Amount reported for 2006

C. State government agencies or laboratories Mark "X" if None 0190

Amount reported for 2006

D. Universities or colleges. Mark "X" if None 0188

Amount reported for 2006

E. Other nonprofit organizations Mark "X" if None 0189

Amount reported for 2006

F. TOTAL (Add lines A through E.) Mark "X" if None 0191

Amount reported for 2006

11000049



If not shown, please enter your 11-digit Identification Number (ID) from the mailing address.

10 If your company funded R&D performed **outside the 50 United States and D.C.** during 2007, what was the cost? (Please report costs of R&D performed by subsidiaries, affiliates, or others based on your company's percentage of ownership, if any, of the entity that conducted the R&D. Ownership can be based on voting stock or equivalent interest.)

Mark "X" if None 0147

A. More than 50% ownership (This category includes wholly owned subsidiaries and locations.)

Amount reported for 2006

B. 10% to 50% ownership

Amount reported for 2006

C. More than 0% but less than 10% ownership

Amount reported for 2006

D. 0% - No company ownership

Amount reported for 2006

E. TOTAL (Add lines A through D.)

Amount reported for 2006

2007		
Company and other nonfederal funds		
\$ Billions	Millions	Thousands
366		
365		
364		
363		
369		

11 What was the cost of the R&D reported in **10**, line A, in Puerto Rico and the following countries? (The total for this item should equal the amount reported in **10**, line A.)

A. Puerto Rico Mark "X" if None 0148

Amount reported for 2006

B. Canada Mark "X" if None 0149

Amount reported for 2006

C. China Mark "X" if None 0150

Amount reported for 2006

D. France Mark "X" if None 0151

Amount reported for 2006

E. Germany Mark "X" if None 0152

Amount reported for 2006

2007		
Company and other nonfederal funds		
\$ Billions	Millions	Thousands
1206		
1201		
1213		
1203		
1202		

11000056



11 Continued

2007

Company and other
nonfederal funds

\$ Billions	Millions	Thousands
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1214			
------	--	--	--

F. India *Mark "X" if None* 0153
Amount reported for 2006

1215			
------	--	--	--

G. Ireland *Mark "X" if None* 0154
Amount reported for 2006

1216			
------	--	--	--

H. Israel *Mark "X" if None* 0155
Amount reported for 2006

1217			
------	--	--	--

I. Italy *Mark "X" if None* 0156
Amount reported for 2006

1204			
------	--	--	--

J. Japan *Mark "X" if None* 0157
Amount reported for 2006

1218			
------	--	--	--

K. Singapore *Mark "X" if None* 0158
Amount reported for 2006

1219			
------	--	--	--

L. Sweden *Mark "X" if None* 0159
Amount reported for 2006

1205			
------	--	--	--

M. United Kingdom *Mark "X" if None* 0160
Amount reported for 2006

1207			
------	--	--	--

N. Other - Specify ↴

1209

1211			
------	--	--	--

1220

1212			
------	--	--	--

1221

O. TOTAL (Add lines A through N. The sum should equal the amount reported in **10**, line A.) *Mark "X" if None* 0192
Amount reported for 2006

1210			
------	--	--	--

11000064



If not shown, please enter your 11-digit Identification Number (ID) from the mailing address.

12 If you reported Federally funded R&D in **5**, line D, column 1, what was the cost funded by each of the following Federal agencies?

A. Department of Defense (DoD) *Mark "X" if None* 0161

Amount reported for 2006

B. National Aeronautics and Space Administration (NASA) *Mark "X" if None* 0162

Amount reported for 2006

C. Department of Energy (DOE) *Mark "X" if None* 0163

Amount reported for 2006

D. Other Federal agencies *Mark "X" if None* 0164

Amount reported for 2006

E. TOTAL (Add lines A through D. The sum should equal the total reported in **5**, line D, column 1.) *Mark "X" if None* 0165

Amount reported for 2006

2007		
Federal funds		
\$ Billions	Millions	Thousands
511		
521		
531		
541		
551		

11000072



13 For the total R&D you reported in **5**, line D, column 3, what was the cost for each of the following types of expenses?

2007		
Total funds		
\$ Billions	Millions	Thousands
611		
621		
631		
641		
651		
661		

A. Wages and salaries of R&D personnel

(INCLUDE scientists and engineers, technicians, secretaries, and other personnel.) Mark "X" if None 0166

Amount reported for 2006

B. Fringe benefits of R&D personnel

(INCLUDE taxable and nontaxable benefits, 401K plans, employers' contribution to health plans.) Mark "X" if None 0167

Amount reported for 2006

C. Materials and supplies consumed

(INCLUDE the cost of all purchased materials consumed.) Mark "X" if None 0168

Amount reported for 2006

D. Depreciation on R&D property and equipment

(INCLUDE depreciation and amortization costs for property and equipment used for R&D during the year.) Mark "X" if None 0169

Amount reported for 2006

E. All other R&D expenses

(INCLUDE R&Ds share of company overhead and other expenses such as utilities, books and periodicals, and property and other taxes.) Mark "X" if None 0170

Amount reported for 2006

F. TOTAL (Add lines A through E. The sum should equal the total reported in **5**, line D, column 3.) Mark "X" if None 0171

Amount reported for 2006

11000080



If not shown, please enter your 11-digit Identification Number (ID) from the mailing address.

14 For the total R&D you reported in 5, line D, column 3, what was the cost for each of the following areas?

2007		
Total funds		
\$ Billions	Millions	Thousands
7111		
Amount reported for 2006		
7211		
Amount reported for 2006		
7311		
Amount reported for 2006		
7411		
Amount reported for 2006		
7511		
Amount reported for 2006		

A. Biotechnology (The use of scientific and engineering data and techniques for the study and solution of problems concerning living organisms.) *Mark "X" if None* 0172

Amount reported for 2006

B. Software development (The formulation of programs, applications, routines, etc., for computers, excluding those used exclusively for internal company operations.) *Mark "X" if None* 0173

Amount reported for 2006

C. Materials synthesis and processing (The use of scientific and engineering data and techniques for the formulation and manipulation of new materials.) *Mark "X" if None* 0174

Amount reported for 2006

D. All other areas *Mark "X" if None* 0175

Amount reported for 2006

E. TOTAL(Add lines A through D. The sum should equal the total reported in 5, line D, column 3.) *Mark "X" if None* 0176

Amount reported for 2006

11000098



15 Did your company perform any R&D using **nanotechnology** during 2007? (Nanotechnology is the creation and utilization of materials, devices, and systems sized at the level of atoms and molecules. This includes R&D in the range of 1 to 100 nanometers.)

7001 Yes - Go to **16**.

7002 No - Go to **17**.

16 For the R&D costs reported in **14**, lines A through D, what percentage involved the use of **nanotechnology** for each of the following areas?

A. Biotechnology *Mark "X" if None* 0177

Amount reported for 2006

B. Software development *Mark "X" if None* 0178

Amount reported for 2006

C. Materials synthesis and processing *Mark "X" if None* 0179

Amount reported for 2006

D. All other areas *Mark "X" if None* 0180

Amount reported for 2006

2007	
Whole percents	
7112	%
	%
7212	%
	%
7312	%
	%
7412	%
	%

11000106



If not shown, please enter your 11-digit Identification Number (ID) from the mailing address.

17 For the Federal and total R&D you reported in **5**, line D, columns 1 and 3, what was the cost of the R&D performed in **each of the 50 United States and D.C.?** (The totals for this item should equal the totals reported in **5**, line D, columns 1 and 3.)

		2007					
		(1) Federal funds			(2) Total funds		
		\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
	Alabama	9011			9012		
	Amount reported for 2006						
	Alaska	9021			9022		
	Amount reported for 2006						
	Arizona	9031			9032		
	Amount reported for 2006						
	Arkansas	9041			9042		
	Amount reported for 2006						
	California	9051			9052		
	Amount reported for 2006						
	Colorado	9061			9062		
	Amount reported for 2006						
	Connecticut	9071			9072		
	Amount reported for 2006						
	Delaware	9081			9082		
	Amount reported for 2006						
	District of Columbia	9091			9092		
	Amount reported for 2006						
	Florida	9101			9102		
	Amount reported for 2006						

11000114



17 Continued

		2007					
		(1) Federal funds			(2) Total funds		
		\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
	Georgia	9111			9112		
	Amount reported for 2006						
	Hawaii	9121			9122		
	Amount reported for 2006						
	Idaho	9131			9132		
	Amount reported for 2006						
	Illinois	9141			9142		
	Amount reported for 2006						
	Indiana	9151			9152		
	Amount reported for 2006						
	Iowa	9161			9162		
	Amount reported for 2006						
	Kansas	9171			9172		
	Amount reported for 2006						
	Kentucky	9181			9182		
	Amount reported for 2006						
	Louisiana	9191			9192		
	Amount reported for 2006						
	Maine	9201			9202		
	Amount reported for 2006						
	Maryland	9211			9212		
	Amount reported for 2006						

11000122



If not shown, please enter your 11-digit Identification Number (ID) from the mailing address.

17 Continued

		2007					
		(1) Federal funds			(2) Total funds		
		\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
		9221			9222		
Massachusetts							
	Amount reported for 2006						
		9231			9232		
Michigan							
	Amount reported for 2006						
		9241			9242		
Minnesota							
	Amount reported for 2006						
		9251			9252		
Mississippi							
	Amount reported for 2006						
		9261			9262		
Missouri							
	Amount reported for 2006						
		9271			9272		
Montana							
	Amount reported for 2006						
		9281			9282		
Nebraska							
	Amount reported for 2006						
		9291			9292		
Nevada							
	Amount reported for 2006						
		9301			9302		
New Hampshire							
	Amount reported for 2006						
		9311			9312		
New Jersey							
	Amount reported for 2006						
		9321			9322		
New Mexico							
	Amount reported for 2006						

11000130



17 Continued

		2007					
		(1) Federal funds			(2) Total funds		
		\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
		9331			9332		
New York							
	Amount reported for 2006						
		9341			9342		
North Carolina							
	Amount reported for 2006						
		9351			9352		
North Dakota							
	Amount reported for 2006						
		9361			9362		
Ohio							
	Amount reported for 2006						
		9371			9372		
Oklahoma							
	Amount reported for 2006						
		9381			9382		
Oregon							
	Amount reported for 2006						
		9391			9392		
Pennsylvania							
	Amount reported for 2006						
		9401			9402		
Rhode Island							
	Amount reported for 2006						
		9411			9412		
South Carolina							
	Amount reported for 2006						
		9421			9422		
South Dakota							
	Amount reported for 2006						
		9431			9432		
Tennessee							
	Amount reported for 2006						

11000148



If not shown, please enter your 11-digit Identification Number (ID) from the mailing address.

17 Continued

		2007					
		(1) Federal funds			(2) Total funds		
		\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
		9441			9442		
Texas							
	Amount reported for 2006						
		9451			9452		
Utah							
	Amount reported for 2006						
		9461			9462		
Vermont							
	Amount reported for 2006						
		9471			9472		
Virginia							
	Amount reported for 2006						
		9481			9482		
Washington							
	Amount reported for 2006						
		9491			9492		
West Virginia							
	Amount reported for 2006						
		9501			9502		
Wisconsin							
	Amount reported for 2006						
		9511			9512		
Wyoming							
	Amount reported for 2006						
		9541			9542		
TOTAL (The sums should equal the amounts reported in 5, line D, columns 1 and 3.)							
	Amount reported for 2006						

11000155



18 If your company performed **energy-related R&D** during 2007, what was the cost of the R&D performed in the 50 United States and D.C. for each of the following sources of energy?

(INCLUDE the portion of project cost incurred for the purpose of increasing energy capabilities for each source of funding. These expenditures should also be included as part of the information reported in 5, line D, columns 1 and 3.)

2007					
(1) Federal funds			(2) Total funds		
\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
10211			10212		
Amount reported for 2006					
10311			10312		
Amount reported for 2006					
10111			10112		
Amount reported for 2006					
10411			10412		
Amount reported for 2006					
10511			10512		
Amount reported for 2006					

A. Fossil fuels *Mark "X" if None* 0181
Amount reported for 2006

B. Geothermal and solar . . . *Mark "X" if None* 0182
Amount reported for 2006

C. Nuclear *Mark "X" if None* 0183
Amount reported for 2006

D. All other energy sources . *Mark "X" if None* 0184
Amount reported for 2006

E. TOTAL (*Add lines A through D.*) *Mark "X" if None* 0185
Amount reported for 2006

19 A. Does this report cover your entire consolidated domestic enterprise, including all U.S. subsidiaries? (*Mark "X" only ONE box.*)

1301 Yes

1330 No - *Please explain in 21.*

B. Was your company publicly or privately owned? (*Mark "X" only ONE box.*)

1302 Publicly owned

1334 Privately owned

1319 Other - *Please describe* ↴

1320

11000163



If not shown, please enter your 11-digit Identification Number (ID) from the mailing address.

19 C. Other than the parent company, how many subsidiaries, affiliates, or branches located **in the 50 United States and D.C.** owned or controlled by your company (by means of voting stock or other equivalent interest) are included in this report? (Mark "X" only **ONE** box.)

1303 None

1304 1

1305 2-5

1306 More than 5

1321 Other - Please describe ↴

1322

D. Other than the parent company, how many subsidiaries, affiliates, or branches located **outside the 50 United States and D.C.** owned or controlled by your company (by means of voting stock or other equivalent interest) are included in this report? (Mark "X" only **ONE** box.)

1307 None

1308 1

1309 2-5

1310 More than 5

1323 Other - Please describe ↴

1324

E. What percent of your company was owned or controlled (by means of voting stock or other equivalent interest) by one or more companies located **in the 50 United States and D.C.**? (Mark "X" only **ONE** box.)

1311 0% - No ownership

1312 More than 0% but less than 10% ownership

1313 10%-50% ownership

1314 More than 50% ownership

1325 Other - Please describe ↴

1327

F. What percent of your company was owned or controlled (by means of voting stock or other equivalent interest) by one or more companies located **outside the 50 United States and D.C.**? (Mark "X" only **ONE** box.)

1315 0% - No ownership

1316 More than 0% but less than 10% ownership

1317 10%-50% ownership

1318 More than 50% ownership

1326 Other - Please describe ↴

1328

11000171



20 Reporting period, location of records, and contact information

A. Is the time period covered by this report a calendar year?

0078 Yes

0079 No - *Enter time period covered* → FROM

Month	Year
0070	

TO

Month	Year
0071	

B. Are all of your company's R&D records and data in a central location?

0080 Yes

0081 No - How many locations? →

0086

--

0085 Other - *Please describe* →

0087

--

C. How many people were involved in the preparation of this report (*INCLUDE those you consulted who provided, collected, or reviewed information, even if you are the only one who filled out the form.*)?

0084

--

0072 Name of person to contact regarding this report

0073 Title

Telephone 0074

Area code	Number			Extension
		-		

Fax 0075

Area code	Number		
		-	

Date completed 0069

Month	Day	Year

0076 Internet e-mail address

21 REMARKS (*Please use this space for any explanations that may help us in understanding your reported data.*)

Thank you for completing your 2007 SURVEY OF INDUSTRIAL RESEARCH AND DEVELOPMENT form.

PLEASE PHOTOCOPY THIS FORM FOR YOUR RECORDS AND RETURN THE ORIGINAL.

11000189

