



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

FORM  
**RD-1 (DRAFT)**

# 2007 SURVEY OF INDUSTRIAL RESEARCH AND DEVELOPMENT

OMB No. 0607-0912: Approval Expires 12/31/2007

**Mail** your completed form to:  
**U.S. CENSUS BUREAU**  
1201 East 10th Street  
Jeffersonville, IN 47132-0001

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

Need help or have questions about filling out this form?

**Visit** our Web site at [www.census.gov/econhelp/rd](http://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](http://www.census.gov/econhelp/rd)

(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	0 2 6

**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 0130

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 0131

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 companies . . . . .Mark "X" if None 0141

Amount reported for 2006

**B.** Federal agencies or laboratories . . . . .Mark "X" if None 0142

Amount reported for 2006

**C.** State government agencies or laboratories . . . . .Mark "X" if None 0143

Amount reported for 2006

**D.** Universities or colleges . . . . .Mark "X" if None 0144

Amount reported for 2006

**E.** Other nonprofit organizations . . . . .Mark "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**.)

**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

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

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
1214		
F. India . . . . . Mark "X" if None 0153 <input type="checkbox"/>		
Amount reported for 2006		
1215		
G. Ireland . . . . . Mark "X" if None 0154 <input type="checkbox"/>		
Amount reported for 2006		
1216		
H. Israel . . . . . Mark "X" if None 0155 <input type="checkbox"/>		
Amount reported for 2006		
1217		
I. Italy . . . . . Mark "X" if None 0156 <input type="checkbox"/>		
Amount reported for 2006		
1204		
J. Japan . . . . . Mark "X" if None 0157 <input type="checkbox"/>		
Amount reported for 2006		
1218		
K. Singapore . . . . . Mark "X" if None 0158 <input type="checkbox"/>		
Amount reported for 2006		
1219		
L. Sweden . . . . . Mark "X" if None 0159 <input type="checkbox"/>		
Amount reported for 2006		
1205		
M. United Kingdom . . . . . Mark "X" if None 0160 <input type="checkbox"/>		
Amount reported for 2006		
N. Other - Specify ↴		
1207		
1209		
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 <input type="checkbox"/>		
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		
Amount reported for 2006		
621		
Amount reported for 2006		
631		
Amount reported for 2006		
641		
Amount reported for 2006		
651		
Amount reported for 2006		
661		
Amount reported for 2006		

**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?

**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

2007		
Total funds		
\$ Billions	Millions	Thousands
7111		
7211		
7311		
7411		
7511		

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 **6**, 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 **6**, 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
	Massachusetts . . . . .	9221			9222		
	Amount reported for 2006						
	Michigan . . . . .	9231			9232		
	Amount reported for 2006						
	Minnesota . . . . .	9241			9242		
	Amount reported for 2006						
	Mississippi . . . . .	9251			9252		
	Amount reported for 2006						
	Missouri . . . . .	9261			9262		
	Amount reported for 2006						
	Montana . . . . .	9271			9272		
	Amount reported for 2006						
	Nebraska . . . . .	9281			9282		
	Amount reported for 2006						
	Nevada . . . . .	9291			9292		
	Amount reported for 2006						
	New Hampshire . . . . .	9301			9302		
	Amount reported for 2006						
	New Jersey . . . . .	9311			9312		
	Amount reported for 2006						
	New Mexico . . . . .	9321			9322		
	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		
<b>TOTAL</b> (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? →

0085  Other - Please describe →

**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		
0076 Internet e-mail address							Date completed 0069		Month	Day	Year

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

11000189



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

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