



2005 SURVEY OF INDUSTRIAL RESEARCH AND DEVELOPMENT

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

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

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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. You will satisfy the mandatory requirements for this survey if you answer **2**, **3**, and **5**, line D, columns 1 and 3; and **7**. 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, 2005?

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** →

2005		
\$ 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 2005? (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 2004

2005		
\$ Billions	Millions	Thousands
102		

3 How many **employees** worked in the 50 United States or D.C. for your company on March 12, 2005? (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 2004

Number
112

4 What was the number of full-time equivalent (FTE) **scientists and engineers** employed by your company as of January 1, 2006 who worked on the following types of R&D in the 50 United States and D.C. during 2005?

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

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

Number of FTEs reported as of January 1, 2005

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

Number of FTEs reported as of January 1, 2005

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

Number of FTEs reported as of January 1, 2005

January 1, 2006		
Number of FTEs		
204		
205		
206		

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 2005?

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 2004

2005								
(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 2004

(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		

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

Mark "X" if no development 0137

Amount reported for 2004

(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 2004

(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 2006, what is the estimated projected cost?
(Comparable to the 2005 figure reported in 5, line D.)
Mark "X" if no R&D is planned for next year . . . 0139

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
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 2005?
(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 2004

2005								
(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?

		2005		
		Company and other nonfederal funds		
		\$ Billions	Millions	Thousands
A. For-profit companies	Mark "X" if None 0141 <input type="checkbox"/>	811		
Amount reported for 2004				
B. Federal agencies or laboratories	Mark "X" if None 0142 <input type="checkbox"/>	812		
Amount reported for 2004				
C. State government agencies or laboratories	Mark "X" if None 0143 <input type="checkbox"/>	813		
Amount reported for 2004				
D. Universities or colleges	Mark "X" if None 0144 <input type="checkbox"/>	821		
Amount reported for 2004				
E. Other nonprofit organizations	Mark "X" if None 0145 <input type="checkbox"/>	831		
Amount reported for 2004				
F. TOTAL (Add lines A through E. The sum should equal the total reported in 7, column 2.)	Mark "X" if None 0146 <input type="checkbox"/>	841		
Amount reported for 2004				

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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 2005? 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 2004

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

Amount reported for 2004

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

Amount reported for 2004

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

Amount reported for 2004

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

Amount reported for 2004

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

Amount reported for 2004

2005			
Company and other nonfederal funds			
\$ Billions	Millions	Thousands	
1101			
1102			
1105			
1103			
1104			
1110			

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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 2005, 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 2004

B. 10% to 50% ownership

Amount reported for 2004

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

Amount reported for 2004

D. 0% - No company ownership

Amount reported for 2004

E. TOTAL (Add lines A through D.)

Amount reported for 2004

2005		
Company and other nonfederal funds		
\$ Billions	Millions	Thousands
366		
365		
364		
363		
369		

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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 2004

B. Canada Mark "X" if None 0149

Amount reported for 2004

C. China. Mark "X" if None 0150

Amount reported for 2004

D. France Mark "X" if None 0151

Amount reported for 2004

E. Germany Mark "X" if None 0152

Amount reported for 2004

2005		
Company and other nonfederal funds		
\$ Billions	Millions	Thousands
1206		
1201		
1213		
1203		
1202		

11000056

11 Continued

2005

Company and other
nonfederal funds

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

1214

F. India *Mark "X" if None* 0153

Amount reported for 2004

1215

G. Ireland *Mark "X" if None* 0154

Amount reported for 2004

1216

H. Israel *Mark "X" if None* 0155

Amount reported for 2004

1217

I. Italy *Mark "X" if None* 0156

Amount reported for 2004

1204

J. Japan *Mark "X" if None* 0157

Amount reported for 2004

1218

K. Singapore *Mark "X" if None* 0158

Amount reported for 2004

1219

L. Sweden *Mark "X" if None* 0159

Amount reported for 2004

1205

M. United Kingdom *Mark "X" if None* 0160

Amount reported for 2004

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 2004

1210

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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?

2005		
Federal funds		
\$ Billions	Millions	Thousands
511		
Amount reported for 2004		
521		
Amount reported for 2004		
531		
Amount reported for 2004		
541		
Amount reported for 2004		
551		
Amount reported for 2004		

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

Amount reported for 2004

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

Amount reported for 2004

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

Amount reported for 2004

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

Amount reported for 2004

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 2004

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11000072

13 For the total R&D you reported in 9, line D, column 3, what was the cost for each of the following types of expenses?

2005		
Total funds		
\$ Billions	Millions	Thousands
611		
Amount reported for 2004		
621		
Amount reported for 2004		
631		
Amount reported for 2004		
641		
Amount reported for 2004		
651		
Amount reported for 2004		
661		
Amount reported for 2004		

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 2004

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 2004

C. Materials and supplies consumed

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

Amount reported for 2004

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 2004

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 2004

F. TOTAL (Add lines A through E. The sum should equal the total reported in 9, line D, column 3.) Mark "X" if None 0171

Amount reported for 2004

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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?

2005		
Total funds		
\$ Billions	Millions	Thousands
7111		
Amount reported for 2004		
7211		
Amount reported for 2004		
7311		
Amount reported for 2004		
7411		
Amount reported for 2004		
7511		
Amount reported for 2004		

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 2004

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 2004

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 2004

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

Amount reported for 2004

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 2004

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11000098

15 Did your company perform any R&D using **nanotechnology** during 2005? (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 2004

B. Software development Mark "X" if None 0178

Amount reported for 2004

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

Amount reported for 2004

D. All other R&D areas Mark "X" if None 0180

Amount reported for 2004

2005	
Whole percents	
7112	
	%
	%
7212	
	%
	%
7312	
	%
	%
7412	
	%
	%

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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.)

		2005						
		(1) Federal funds			(2) Total funds			
		\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands	
Alabama	9011				9012			
Amount reported for 2004								
Alaska	9021				9022			
Amount reported for 2004								
Arizona	9031				9032			
Amount reported for 2004								
Arkansas	9041				9042			
Amount reported for 2004								
California	9051				9052			
Amount reported for 2004								
Colorado	9061				9062			
Amount reported for 2004								
Connecticut	9071				9072			
Amount reported for 2004								
Delaware	9081				9082			
Amount reported for 2004								
District of Columbia	9091				9092			
Amount reported for 2004								
Florida	9101				9102			
Amount reported for 2004								

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11000114

17 Continued

		2005					
		(1) Federal funds			(2) Total funds		
		\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
Georgia		9111			9112		
Amount reported for 2004							
Hawaii		9121			9122		
Amount reported for 2004							
Idaho		9131			9132		
Amount reported for 2004							
Illinois		9141			9142		
Amount reported for 2004							
Indiana		9151			9152		
Amount reported for 2004							
Iowa		9161			9162		
Amount reported for 2004							
Kansas		9171			9172		
Amount reported for 2004							
Kentucky		9181			9182		
Amount reported for 2004							
Louisiana		9191			9192		
Amount reported for 2004							
Maine		9201			9202		
Amount reported for 2004							
Maryland		9211			9212		
Amount reported for 2004							

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17 Continued

		2005						
		(1) Federal funds			(2) Total funds			
		\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands	
	9221				9222			
Massachusetts								
	Amount reported for 2004							
	9231				9232			
Michigan								
	Amount reported for 2004							
	9241				9242			
Minnesota								
	Amount reported for 2004							
	9251				9252			
Mississippi								
	Amount reported for 2004							
	9261				9262			
Missouri								
	Amount reported for 2004							
	9271				9272			
Montana								
	Amount reported for 2004							
	9281				9282			
Nebraska								
	Amount reported for 2004							
	9291				9292			
Nevada								
	Amount reported for 2004							
	9301				9302			
New Hampshire								
	Amount reported for 2004							
	9311				9312			
New Jersey								
	Amount reported for 2004							
	9321				9322			
New Mexico								
	Amount reported for 2004							

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17 Continued

		2005					
		(1) Federal funds			(2) Total funds		
		\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
	9331				9332		
New York							
Amount reported for 2004							
	9341				9342		
North Carolina							
Amount reported for 2004							
	9351				9352		
North Dakota							
Amount reported for 2004							
	9361				9362		
Ohio							
Amount reported for 2004							
	9371				9372		
Oklahoma							
Amount reported for 2004							
	9381				9382		
Oregon							
Amount reported for 2004							
	9391				9392		
Pennsylvania							
Amount reported for 2004							
	9401				9402		
Rhode Island							
Amount reported for 2004							
	9411				9412		
South Carolina							
Amount reported for 2004							
	9421				9422		
South Dakota							
Amount reported for 2004							
	9431				9432		
Tennessee							
Amount reported for 2004							

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17 Continued

		2005					
		(1) Federal funds			(2) Total funds		
		\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
	9441				9442		
Texas							
	Amount reported for 2004						
	9451				9452		
Utah							
	Amount reported for 2004						
	9461				9462		
Vermont							
	Amount reported for 2004						
	9471				9472		
Virginia							
	Amount reported for 2004						
	9481				9482		
Washington							
	Amount reported for 2004						
	9491				9492		
West Virginia							
	Amount reported for 2004						
	9501				9502		
Wisconsin							
	Amount reported for 2004						
	9511				9512		
Wyoming							
	Amount reported for 2004						
	9541				9542		
TOTAL (The sums should equal the amounts reported in 5, line D, columns 1 and 3.)							
	Amount reported for 2004						

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18 If your company performed **energy-related R&D** during 2005, 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.)

2005					
(1) Federal funds			(2) Total funds		
\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
10211			10212		
Amount reported for 2004					
10311			10312		
Amount reported for 2004					
10111			10112		
Amount reported for 2004					
10411			10412		
Amount reported for 2004					
10511			10512		
Amount reported for 2004					

A. Fossil fuels Mark "X" if None 0181
Amount reported for 2004

B. Geothermal and solar . . . Mark "X" if None 0182
Amount reported for 2004

C. Nuclear Mark "X" if None 0183
Amount reported for 2004

D. All other energy sources . . Mark "X" if None 0184
Amount reported for 2004

E. TOTAL (Add lines A through D). Mark "X" if None 0185
Amount reported for 2004

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

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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

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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 (*for example, providing, collecting, or reviewing information*)?

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.*)

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Thank you for completing your 2005 SURVEY OF INDUSTRIAL RESEARCH AND DEVELOPMENT form.

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