



2004 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

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.

This survey is conducted jointly with the National Science Foundation.



(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, 5, line D, columns 1 and 3; and 15. Except as noted, this report should cover your entire consolidated domestic enterprise, **including all U.S. subsidiaries.** Reasonable estimates are acceptable.

1 Was this company owned or controlled by another company on December 31, 2004?

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** →

2004		
\$ 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 2004? (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 2003

2004		
\$ Billions	Millions	Thousands
102		

3 How many **employees** worked in the 50 United States or D.C. for your company on March 12, 2004? (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 2003

Number
112

11000015

4 What was the number of full-time equivalent (FTE) **scientists and engineers** employed by your company as of January 1, 2005 who worked on the following types of R&D during 2004?

(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, 2004

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

Number of FTEs reported as of January 1, 2004

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

Number of FTEs reported as of January 1, 2004

January 1, 2005			
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 2004?

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 2003

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
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 2003

(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 2003

(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 2003

(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 2005, what is the estimated projected cost?

(Comparable to the 2004 figure reported in **5**, line D.)

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

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
403			402			401		

7 If others outside your company performed R&D funded by you, what were the costs of the R&D performed in the 50 United States and D.C. during 2004?

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

Amount reported for 2003

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
354			355			356		

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

A. For-profit companies Mark "X" if None 0141
Amount reported for 2003

B. Federal agencies or laboratories Mark "X" if None 0142
Not asked in 2003

C. State government agencies or laboratories Mark "X" if None 0143
Not asked in 2003

D. Universities or colleges Mark "X" if None 0144
Amount reported for 2003

E. Other nonprofit organizations Mark "X" if None 0145
Amount reported for 2003

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 2003

2004		
Company and other nonfederal funds		
\$ Billions	Millions	Thousands
811		
812		
813		
821		
831		
841		



11000031

9 If your company funded R&D performed **outside the 50 United States and D.C.** during 2004, what were the costs? (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 2003

B. 10% to 50% ownership

Amount reported for 2003

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

Amount reported for 2003

D. 0% - No company ownership

Amount reported for 2003

E. TOTAL (Add lines A through D.)

Amount reported for 2003

2004		
Company and other nonfederal funds		
\$ Billions	Millions	Thousands
366		
365		
364		
363		
369		

10 What was the cost of the R&D reported in **9**, line A, in Puerto Rico and the following countries? (The total for this item should equal the amount reported in **9**, line A.)

A. Puerto Rico Mark "X" if None 0148

Amount reported for 2003

B. Canada Mark "X" if None 0149

Amount reported for 2003

C. China. Mark "X" if None 0150

Not asked in 2003

D. France Mark "X" if None 0151

Amount reported for 2003

E. Germany Mark "X" if None 0152

Amount reported for 2003

2004		
Company and other nonfederal funds		
\$ Billions	Millions	Thousands
1206		
1201		
1213		
1203		
1202		



11000049

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

10 Continued

2004

Company and other nonfederal funds

\$ Billions	Millions	Thousands
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1214

F. India Mark "X" if None 0153

Not asked in 2003

1215

G. Ireland Mark "X" if None 0154

Not asked in 2003

1216

H. Israel Mark "X" if None 0155

Not asked in 2003

1217

I. Italy Mark "X" if None 0156

Not asked in 2003

1204

J. Japan Mark "X" if None 0157

Amount reported for 2003

1218

K. Singapore Mark "X" if None 0158

Not asked in 2003

1219

L. Sweden Mark "X" if None 0159

Not asked in 2003

1205

M. United Kingdom Mark "X" if None 0160

Amount reported for 2003

N. Other - Specify 7

1207

1209

1211

1220

1212

1221

O. TOTAL (Add lines A through N. The sum should equal the amount reported in 9, line A.)

1210

. Mark "X" if None 0192

Amount reported for 2003

11000056

11 If you reported Federally funded R&D in **5**, line D, column 1, what were the costs funded by the following Federal agencies?

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

Amount reported for 2003

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

Amount reported for 2003

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

Amount reported for 2003

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

Amount reported for 2003

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 2003

2004		
Federal funds		
\$ Billions	Millions	Thousands
511		
521		
531		
541		
551		



11000064

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

12 For the total R&D you reported in 5, line D, column 3, what were the costs for the following types of expenses?

2004		
Total funds		
\$ Billions	Millions	Thousands
611		
Amount reported for 2003		
621		
Amount reported for 2003		
631		
Amount reported for 2003		
641		
Amount reported for 2003		
651		
Amount reported for 2003		
661		
Amount reported for 2003		

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 2003

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 2003

C. Materials and supplies consumed

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

Amount reported for 2003

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 2003

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 2003

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 2003



11000072

13 For the total R&D you reported in **5**, line D, column 3, what were the costs for the following areas?

2004		
Total funds		
\$ Billions	Millions	Thousands
7111		
Amount reported for 2003		
7211		
Amount reported for 2003		
7311		
Amount reported for 2003		
7411		
Amount reported for 2003		
7511		
Amount reported for 2003		

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 2003

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 2003

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 2003

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

Amount reported for 2003

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 2003

14 If your company used **nanotechnology** for R&D during 2004, what percentage of the R&D costs reported in **13** are attributable to nanotechnology for the following areas? (Nanotechnology is the creation and utilization of materials, devices, and systems sized at the level of atoms and molecules in the range of 1 to 100 nanometers.)

2004	
Whole percents	
7112	%
	%
7212	%
	%
7312	%
	%
7412	%
	%

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

Amount reported for 2003

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

Amount reported for 2003

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

Amount reported for 2003

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

Amount reported for 2003



11000080

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

15 For the Federal and total R&D you reported in **5**, line D, columns 1 and 3, what were the costs for 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.)

State	2004					
	(1) Federal funds			(2) Total funds		
	\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
Alabama	9011			9012		
Amount reported for 2003						
Alaska	9021			9022		
Amount reported for 2003						
Arizona	9031			9032		
Amount reported for 2003						
Arkansas	9041			9042		
Amount reported for 2003						
California	9051			9052		
Amount reported for 2003						
Colorado	9061			9062		
Amount reported for 2003						
Connecticut	9071			9072		
Amount reported for 2003						
Delaware	9081			9082		
Amount reported for 2003						
District of Columbia	9091			9092		
Amount reported for 2003						
Florida	9101			9102		
Amount reported for 2003						



11000098

15 Continued

State	2004					
	(1) Federal funds			(2) Total funds		
	\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
Georgia	9111			9112		
Amount reported for 2003						
Hawaii	9121			9122		
Amount reported for 2003						
Idaho	9131			9132		
Amount reported for 2003						
Illinois	9141			9142		
Amount reported for 2003						
Indiana	9151			9152		
Amount reported for 2003						
Iowa	9161			9162		
Amount reported for 2003						
Kansas	9171			9172		
Amount reported for 2003						
Kentucky	9181			9182		
Amount reported for 2003						
Louisiana	9191			9192		
Amount reported for 2003						
Maine	9201			9202		
Amount reported for 2003						
Maryland	9211			9212		
Amount reported for 2003						



11000106

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

15 Continued

State	2004					
	(1) Federal funds			(2) Total funds		
	\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
	9221			9222		
Massachusetts						
Amount reported for 2003						
	9231			9232		
Michigan						
Amount reported for 2003						
	9241			9242		
Minnesota						
Amount reported for 2003						
	9251			9252		
Mississippi						
Amount reported for 2003						
	9261			9262		
Missouri						
Amount reported for 2003						
	9271			9272		
Montana						
Amount reported for 2003						
	9281			9282		
Nebraska						
Amount reported for 2003						
	9291			9292		
Nevada						
Amount reported for 2003						
	9301			9302		
New Hampshire						
Amount reported for 2003						
	9311			9312		
New Jersey						
Amount reported for 2003						
	9321			9322		
New Mexico						
Amount reported for 2003						



11000114

15 Continued

		2004					
State		(1) Federal funds			(2) Total funds		
		\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
		9331				9332	
New York							
Amount reported for 2003							
		9341			9342		
North Carolina							
Amount reported for 2003							
		9351			9352		
North Dakota							
Amount reported for 2003							
		9361			9362		
Ohio							
Amount reported for 2003							
		9371			9372		
Oklahoma							
Amount reported for 2003							
		9381			9382		
Oregon							
Amount reported for 2003							
		9391			9392		
Pennsylvania							
Amount reported for 2003							
		9401			9402		
Rhode Island							
Amount reported for 2003							
		9411			9412		
South Carolina							
Amount reported for 2003							
		9421			9422		
South Dakota							
Amount reported for 2003							
		9431			9432		
Tennessee							
Amount reported for 2003							



11000122

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

15 Continued

State	2004					
	(1) Federal funds			(2) Total funds		
	\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
	9441			9442		
Texas						
Amount reported for 2003						
	9451			9452		
Utah						
Amount reported for 2003						
	9461			9462		
Vermont						
Amount reported for 2003						
	9471			9472		
Virginia						
Amount reported for 2003						
	9481			9482		
Washington						
Amount reported for 2003						
	9491			9492		
West Virginia						
Amount reported for 2003						
	9501			9502		
Wisconsin						
Amount reported for 2003						
	9511			9512		
Wyoming						
Amount reported for 2003						
TOTAL (The sums should equal the amounts reported in 5, line D, columns 1 and 3.)	9541			9542		
Amount reported for 2003						

11000130

16 If your company performed **energy-related R&D** during 2004, what were the costs of the R&D performed in the 50 United States and D.C. for the following sources of energy? (INCLUDE the portion of project cost incurred for the purpose of increasing energy resources or 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.)

2004					
(1) Federal funds			(2) Total funds		
\$ Billions	Millions	Thousands	\$ Billions	Millions	Thousands
10211			10212		
Amount reported for 2003					
10311			10312		
Amount reported for 2003					
10111			10112		
Amount reported for 2003					
10411			10412		
Amount reported for 2003					
10511			10512		
Amount reported for 2003					

A. Fossil fuels Mark "X" if None 0181

Amount reported for 2003

B. Geothermal and solar . . . Mark "X" if None 0182

Amount reported for 2003

C. Nuclear Mark "X" if None 0183

Amount reported for 2003

D. All other energy sources . . Mark "X" if None 0184

Amount reported for 2003

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

Amount reported for 2003



11000148

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

17 If your company **collaborated with others** to perform R&D during 2004, what were your company's cost for the R&D performed in the 50 United States and D.C. with the following types of partners?
(These expenditures should also be included as part of the information reported in 5, line D, column 2.)

2004		
Company and other nonfederal funds		
\$ Billions	Millions	Thousands
1101		
Amount reported for 2003		
1102		
Amount reported for 2003		
1105		
Not asked for 2003		
1103		
Amount reported for 2003		
1104		
Amount reported for 2003		
1110		
Amount reported for 2003		

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

Amount reported for 2003

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

Amount reported for 2003

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

Not asked for 2003

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

Amount reported for 2003

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

Amount reported for 2003

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

Amount reported for 2003

18 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 20.*

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

1302 Publicly owned

1334 Privately owned

1319 Other - *Please describe* ↴

1320



11000155

18 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



11000163

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

19 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 →

Month	Year	Month	Year
0070		0071	

FROM TO

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. Did more than one person compile the information for this form?

0082 Yes - How many? →

0083 No

D. How many hours did it take to complete this form?
 (INCLUDE time spent for reviewing instructions, searching existing data sources, gathering and maintaining data needed, and completing and reviewing the collection of information.)

Number of hours
0090

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

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

Thank you for completing your 2004 SURVEY OF INDUSTRIAL RESEARCH AND DEVELOPMENT form.

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



11000171

