



# 2004 SURVEY OF INDUSTRIAL RESEARCH AND DEVELOPMENT

OMB No. : Approval Expires

**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.

## DRAFT

9/23/04

(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, lines A and B; 4, line D, columns 1 and 2; and 1.

Except as noted, this report covers your entire consolidated domestic enterprise, including all U.S. subsidiaries, affiliates, and branches. Reasonable estimates are acceptable.

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

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

No - Go to 2.

### HOW TO REPORT DOLLAR FIGURES

Dollar figures should be **rounded to thousands** of dollars.

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

| 2004        |          |           |
|-------------|----------|-----------|
| \$ Billions | Millions | Thousands |
|             | 1        | 026       |

**2 A.** 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

Amount reported in 2003

| 2004        |          |           |
|-------------|----------|-----------|
| \$ Billions | Millions | Thousands |
| 102         |          |           |

Amount reported in 2003

**B.** 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

Amount reported in 2003

| Number |  |  |
|--------|--|--|
| 112    |  |  |

**3** 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?

**January 1, 2005**

Number of FTEs

204

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

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

Number of FTEs reported as of January 1, 2004

205

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

Number of FTEs reported as of January 1, 2004

206

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

Number of FTEs reported as of January 1, 2004

**4** What was the cost of R&D performed within your company in the 50 United States and D.C. during 2004?  
(Please report R&D performed for each source of funding.)

**2004**

**A. Basic research** (Research for the advancement of scientific knowledge without specific immediate commercial objectives.)

Mark "X" if no basic research . . . . .

Amount reported in 2003

| (1)<br>Federal funds |          |           | (2)<br>Company and other nonfederal funds |          |           | (3)<br>Total funds<br>Columns 1 + 2 |          |           |
|----------------------|----------|-----------|---|----------|-----------|-------------------------------------|----------|-----------|
| \$ Billions          | Millions | Thousands | \$ Billions                               | Millions | Thousands | \$ Billions                         | Millions | Thousands |
| 304                  |          |           | 305                                       |          |           | 306                                 |          |           |
|                      |          |           |   |          |           |                                     |          |           |

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

Mark "X" if no applied research . . .

Amount reported in 2003

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

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

Mark "X" if no development . . . .

Amount reported in 2003

| (1)<br>Federal funds |          |           | (2)<br>Company and other nonfederal funds |          |           | (3)<br>Total funds<br>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

Amount reported in 2003

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

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

**5** For 2005 what is your projected cost for company-funded R&D performed by your company in the 50 United States and D.C.?  
 (Comparable to the 2004 figure reported in 4, line D, column 2.)  
 Mark "X" if no R&D is planned for next year

| 2005                 |          |           |   |          |           |                                     |          |           |
|----------------------|----------|-----------|---|----------|-----------|-------------------------------------|----------|-----------|
| (1)<br>Federal funds |          |           | (2)<br>Company and other nonfederal funds |          |           | (3)<br>Total funds<br>Columns 1 + 2 |          |           |
| \$ Billions          | Millions | Thousands | \$ Billions                               | Millions | Thousands | \$ Billions                         | Millions | Thousands |
| 000                  |          |           | 000                                       |          |           | 401                                 |          |           |
|                      |          |           |   |          |           |                                     |          |           |

**6 A.** What was the cost of R&D performed by others for your company in the 50 United States and D.C. during 2004?  
 (Please report R&D performed for each source of funding.)  
 Mark "X" if no R&D was performed by others . . . . .

| 2004                 |          |           |   |          |           |                                     |          |           |
|----------------------|----------|-----------|---|----------|-----------|-------------------------------------|----------|-----------|
| (1)<br>Federal funds |          |           | (2)<br>Company and other nonfederal funds |          |           | (3)<br>Total funds<br>Columns 1 + 2 |          |           |
| \$ Billions          | Millions | Thousands | \$ Billions                               | Millions | Thousands | \$ Billions                         | Millions | Thousands |
| 354                  |          |           | 355                                       |          |           | 356                                 |          |           |
|                      |          |           |   |          |           |                                     |          |           |

Amount reported in 2003

**B.** What was the cost of company-funded R&D performed by others for your company in the 50 United States and D.C. by the following types of organizations during 2004?

1. For-profit companies . . . . . Mark "X" if None

| 2004                               |          |           |  |
|------------------------------------|----------|-----------|--|
| Company and other nonfederal funds |          |           |  |
| \$ Billions                        | Millions | Thousands |  |
| 811                                |          |           |  |
|                                    |          |           |  |

Amount reported in 2003

2. Federal agencies or laboratories . . . . . Mark "X" if None

|     |  |  |  |
|-----|--|--|--|
| 000 |  |  |  |
|     |  |  |  |

Amount reported in 2003

3. State government agencies or laboratories . . . . . Mark "X" if None

|     |  |  |  |
|-----|--|--|--|
| 000 |  |  |  |
|     |  |  |  |

Amount reported in 2003

4. Universities or colleges . . . . . Mark "X" if None

|     |  |  |  |
|-----|--|--|--|
| 821 |  |  |  |
|     |  |  |  |

Amount reported in 2003

5. Other nonprofit organizations Mark "X" if None

|     |  |  |  |
|-----|--|--|--|
| 831 |  |  |  |
|     |  |  |  |

Amount reported in 2003

**6. TOTAL** (Add lines 1 through 5. The sum should equal the total reported in line A, column 2.) . . . . . Mark "X" if None

|     |  |  |  |
|-----|--|--|--|
| 841 |  |  |  |
|     |  |  |  |

Amount reported in 2003

**7 A.** What was the cost of your company-funded R&D performed outside of the 50 United States and D.C. by subsidiaries, affiliates, branches, or by other organizations in which your company owns the following percentages of voting stock or equivalent interest during 2004?

| 2004                               |          |           |
|------------------------------------|----------|-----------|
| Company and other nonfederal funds |          |           |
| \$ Billions                        | Millions | Thousands |
|                                    |          |           |
| Amount reported in 2003            |          |           |
|                                    |          |           |
| Amount reported in 2003            |          |           |
|                                    |          |           |
| Amount reported in 2003            |          |           |
|                                    |          |           |
| Amount reported in 2003            |          |           |
|                                    |          |           |
| Amount reported in 2003            |          |           |

Mark "X" if None

1. 0% - No ownership . . . . . 363

Amount reported in 2003

2. More than 0% but less than 10% ownership. . . . 364

Amount reported in 2003

3. 10%-50% ownership . . . . . 365

Amount reported in 2003

4. More than 50% ownership . . . . . 366

Amount reported in 2003

5. **TOTAL** (Add lines 1 through 4.) . . . . . 369

Amount reported in 2003

**B.** What was the cost of your company-funded R&D that was performed outside the 50 United States and D.C. by your subsidiaries, affiliates, or branches, or by other organizations in which your company owns more than 50% of the voting stock or equivalent interest in the following countries and Puerto Rico during 2004?

|                         |  |  |
|-------------------------|--|--|
|                         |  |  |
| 1206                    |  |  |
|                         |  |  |
| Amount reported in 2003 |  |  |
|                         |  |  |
| 1201                    |  |  |
|                         |  |  |
| Amount reported in 2003 |  |  |
|                         |  |  |
| 0000                    |  |  |
|                         |  |  |
| Amount reported in 2003 |  |  |
|                         |  |  |
| 1203                    |  |  |
|                         |  |  |
| Amount reported in 2003 |  |  |
|                         |  |  |
| 1202                    |  |  |
|                         |  |  |
| Amount reported in 2003 |  |  |
|                         |  |  |
| 0000                    |  |  |
|                         |  |  |
| Amount reported in 2003 |  |  |

1. Puerto Rico . . . . . Mark "X" if None

Amount reported in 2003

2. Canada . . . . . Mark "X" if None

Amount reported in 2003

3. China . . . . . Mark "X" if None

Amount reported in 2003

4. France. . . . . Mark "X" if None

Amount reported in 2003

5. Germany . . . . . Mark "X" if None

Amount reported in 2003

6. India . . . . . Mark "X" if None

Amount reported in 2003

CONTINUE WITH **7 B** ON PAGE 5

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

**7 B.** What was the cost of your company-funded R&D that was performed outside the 50 United States and D.C. by your subsidiaries, affiliates, or branches, or by other organizations in which your company owns more than 50% of the voting stock or equivalent interest in the following countries and Puerto Rico during 2004? - Continued

7. Ireland *Mark "X" if None*

Amount reported in 2003

8. Israel . . . . . *Mark "X" if None*

Amount reported in 2003

9. Italy . . . . . *Mark "X" if None*

Amount reported in 2003

10. Japan . . . . . *Mark "X" if None*

Amount reported in 2003

11. Singapore . . . . . *Mark "X" if None*

Amount reported in 2003

12. Sweden . . . . . *Mark "X" if None*

Amount reported in 2003

13. United Kingdom . . . . . *Mark "X" if None*

Amount reported in 2003

14. Other - *Specify* ↴

1209

Amount reported in 2003

0000

0000

15. **TOTAL** (Add lines 1 through 14. The sum should equal the amount reported in line A4.) *Mark "X" if None*

Amount reported in 2003

| 2004                               |          |           |
|------------------------------------|----------|-----------|
| Company and other nonfederal funds |          |           |
| \$ Billions                        | Millions | Thousands |
| 0000                               |          |           |
|                                    |          |           |
| 0000                               |          |           |
|                                    |          |           |
| 0000                               |          |           |
|                                    |          |           |
| 1204                               |          |           |
|                                    |          |           |
| 0000                               |          |           |
|                                    |          |           |
| 0000                               |          |           |
|                                    |          |           |
| 1205                               |          |           |
|                                    |          |           |
| 1207                               |          |           |
|                                    |          |           |
| 0000                               |          |           |
|                                    |          |           |
| 0000                               |          |           |
|                                    |          |           |
| 1210                               |          |           |
|                                    |          |           |

| 8 What was the cost of the Federally funded R&D your company performed in the 50 United States and D.C. for each of these Federal agencies during 2004? |                          | 2004                               |          |           |
|---|--------------------------|------------------------------------|----------|-----------|
|   |                          | Company and other nonfederal funds |          |           |
|   |                          | \$ Billions                        | Millions | Thousands |
|   |                          | 511                                |          |           |
| A. Department of Defense (DoD) . . . Mark "X" if None   | <input type="checkbox"/> |                                    |          |           |
| Amount reported in 2003   |                          |                                    |          |           |
|   |                          | 521                                |          |           |
| B. National Aeronautics and Space Administration (NASA) . . . . . Mark "X" if None  | <input type="checkbox"/> |                                    |          |           |
| Amount reported in 2003   |                          |                                    |          |           |
|   |                          | 531                                |          |           |
| C. Department of Energy (DOE) . . . Mark "X" if None  | <input type="checkbox"/> |                                    |          |           |
| Amount reported in 2003   |                          |                                    |          |           |
|   |                          | 541                                |          |           |
| D. Other Federal agencies . . . . . Mark "X" if None  | <input type="checkbox"/> |                                    |          |           |
| Amount reported in 2003   |                          |                                    |          |           |
|   |                          | 551                                |          |           |
| E. <b>TOTAL</b> (Add lines A through D. The sum should equal the total reported in 4, line D, column 1.)  | <input type="checkbox"/> |                                    |          |           |
| Amount reported in 2003   |                          |                                    |          |           |

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

**9** What was the cost relating to the total R&D performed within your company in the 50 United States and D.C. for the following types of expenses during 2004?

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

**A. Wages and salaries of R&D personnel**

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

Amount reported in 2003

**B. Fringe benefits of R&D personnel**

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

Amount reported in 2003

**C. Materials and supplies consumed**

*(Include the cost of all purchased materials consumed.)* . . . . . Mark "X" if None

Amount reported in 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

Amount reported in 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

Amount reported in 2003

**F. TOTAL** (Add lines A through E. The sum should equal the total reported in **4**, line D, column 3.)

Mark "X" if None

Amount reported in 2003

**10 A.** What was the cost relating to total R&D performed within your company in the 50 United States and D.C. for the following types of technologies during 2004?

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

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

Amount reported in 2003

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

Amount reported in 2003

**3.** 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*

Amount reported in 2003

**4.** Other areas . . . . . *Mark "X" if None*

Amount reported in 2003

**5. TOTAL** (Add lines 1 through 4. The sum should equal the total reported in **4**, line D, column 3.) . . . . . *Mark "X" if None*

Amount reported in 2003



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

**10 B.** What percentage of the R&D costs reported in **10A** are attributable to nanotechnology for each of the following types of technologies during 2004? (*Nanotechnology is defined as the creation and utilization of materials, devices, and systems through the control of matter on the nanometer scale, at the level of atoms and molecules in the range of 1 to 100 nanometers.*)

1. Biotechnology . . . . . Mark "X" if None

Amount reported in 2003

2. Software development . . . . . Mark "X" if None

Amount reported in 2003

3. Materials synthesis and process . . . . . Mark "X" if None

Amount reported in 2003

4. Other areas . . . . . Mark "X" if None

Amount reported in 2003

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

**11** What was the cost of the R&D your company performed in each of the 50 United States and D.C during 2004? (*Please report Federally funded and total R&D performed.*)

| Line No. | State                   | 2004                 |          |           |                    |          |           |
|----------|-------------------------|----------------------|----------|-----------|--------------------|----------|-----------|
|          |                         | (1)<br>Federal funds |          |           | (2)<br>Total funds |          |           |
|          |                         | \$ Billions          | Millions | Thousands | \$ Billions        | Millions | Thousands |
| 1        | Alabama . . . . .       | 9011                 |          |           | 9012               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 2        | Alaska . . . . .        | 9021                 |          |           | 9022               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 3        | Arizona . . . . .       | 9031                 |          |           | 9032               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 4        | Arkansas . . . . .      | 9041                 |          |           | 9042               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 5        | California . . . . .    | 9051                 |          |           | 9052               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |

CONTINUE WITH **11** ON PAGE 10

**11** What was the cost of the R&D your company performed in each of the 50 United States and D.C during 2004?  
 (Please report R&D performed for each source of funding.) - Continued

| Line No. | State                      | 2004                 |          |           |                    |          |           |
|----------|----------------------------|----------------------|----------|-----------|--------------------|----------|-----------|
|          |                            | (1)<br>Federal funds |          |           | (2)<br>Total funds |          |           |
|          |                            | \$ Billions          | Millions | Thousands | \$ Billions        | Millions | Thousands |
| 6        | Colorado . . . . .         | 9061                 |          |           | 9062               |          |           |
|          | Amount reported in 2003    |                      |          |           |                    |          |           |
| 7        | Connecticut . . . . .      | 9071                 |          |           | 9072               |          |           |
|          | Amount reported in 2003    |                      |          |           |                    |          |           |
| 8        | Delaware . . . . .         | 9081                 |          |           | 9082               |          |           |
|          | Amount reported in 2003    |                      |          |           |                    |          |           |
| 9        | District of Columbia . . . | 9091                 |          |           | 9092               |          |           |
|          | Amount reported in 2003    |                      |          |           |                    |          |           |
| 10       | Florida . . . . .          | 9101                 |          |           | 9102               |          |           |
|          | Amount reported in 2003    |                      |          |           |                    |          |           |
| 11       | Georgia . . . . .          | 9111                 |          |           | 9112               |          |           |
|          | Amount reported in 2003    |                      |          |           |                    |          |           |
| 12       | Hawaii . . . . .           | 9121                 |          |           | 9122               |          |           |
|          | Amount reported in 2003    |                      |          |           |                    |          |           |
| 13       | Idaho . . . . .            | 9131                 |          |           | 9132               |          |           |
|          | Amount reported in 2003    |                      |          |           |                    |          |           |
| 14       | Illinois . . . . .         | 9141                 |          |           | 9142               |          |           |
|          | Amount reported in 2003    |                      |          |           |                    |          |           |
| 15       | Indiana . . . . .          | 9151                 |          |           | 9152               |          |           |
|          | Amount reported in 2003    |                      |          |           |                    |          |           |

CONTINUE WITH 11 ON PAGE 11

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

**11** What was the cost of the R&D your company performed in each of the 50 United States and D.C during 2004?  
 (Please report R&D performed for each source of funding.) - Continued

| Line No. | State                   | 2004                 |          |           |                    |          |           |
|----------|-------------------------|----------------------|----------|-----------|--------------------|----------|-----------|
|          |                         | (1)<br>Federal funds |          |           | (2)<br>Total funds |          |           |
|          |                         | \$ Billions          | Millions | Thousands | \$ Billions        | Millions | Thousands |
| 16       | Iowa . . . . .          | 9161                 |          |           | 9162               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 17       | Kansas . . . . .        | 9171                 |          |           | 9172               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 18       | Kentucky . . . . .      | 9181                 |          |           | 9182               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 19       | Louisiana . . . . .     | 9191                 |          |           | 9192               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 20       | Maine . . . . .         | 9201                 |          |           | 9202               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 21       | Maryland . . . . .      | 9211                 |          |           | 9212               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 22       | Massachusetts . . . . . | 9221                 |          |           | 9222               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 23       | Michigan . . . . .      | 9231                 |          |           | 9232               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 24       | Minnesota . . . . .     | 9241                 |          |           | 9242               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |
| 25       | Mississippi . . . . .   | 9251                 |          |           | 9252               |          |           |
|          | Amount reported in 2003 |                      |          |           |                    |          |           |

CONTINUE WITH 11 ON PAGE 12

**11** What was the cost of the R&D your company performed in each of the 50 United States and D.C during 2004?  
 (Please report R&D performed for each source of funding.) - Continued

| Line No. | State                    | 2004                 |          |           |                    |          |           |
|----------|--------------------------|----------------------|----------|-----------|--------------------|----------|-----------|
|          |                          | (1)<br>Federal funds |          |           | (2)<br>Total funds |          |           |
|          |                          | \$ Billions          | Millions | Thousands | \$ Billions        | Millions | Thousands |
| 26       | Missouri . . . . .       | 9261                 |          |           | 9262               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 27       | Montana . . . . .        | 9271                 |          |           | 9272               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 28       | Nebraska . . . . .       | 9281                 |          |           | 9282               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 29       | Nevada . . . . .         | 9291                 |          |           | 9292               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 30       | New Hampshire . . . . .  | 9301                 |          |           | 9302               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 31       | New Jersey . . . . .     | 9311                 |          |           | 9312               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 32       | New Mexico . . . . .     | 9321                 |          |           | 9322               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 33       | New York . . . . .       | 9331                 |          |           | 9332               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 34       | North Carolina . . . . . | 9341                 |          |           | 9342               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 35       | North Dakota . . . . .   | 9351                 |          |           | 9352               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |

CONTINUE WITH 11 ON PAGE 13

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

**11** What was the cost of the R&D your company performed in each of the 50 United States and D.C during 2004?  
 (Please report R&D performed for each source of funding.) - Continued

| Line No. | State                    | 2004                 |          |           |                    |          |           |
|----------|--------------------------|----------------------|----------|-----------|--------------------|----------|-----------|
|          |                          | (1)<br>Federal funds |          |           | (2)<br>Total funds |          |           |
|          |                          | \$ Billions          | Millions | Thousands | \$ Billions        | Millions | Thousands |
| 36       | Ohio . . . . .           | 9361                 |          |           | 9362               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 37       | Oklahoma. . . . .        | 9371                 |          |           | 9372               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 38       | Oregon . . . . .         | 9381                 |          |           | 9382               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 39       | Pennsylvania . . . . .   | 9391                 |          |           | 9392               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 40       | Rhode Island . . . . .   | 9401                 |          |           | 9402               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 41       | South Carolina . . . . . | 9411                 |          |           | 9412               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 42       | South Dakota . . . . .   | 9421                 |          |           | 9422               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 43       | Tennessee . . . . .      | 9431                 |          |           | 9432               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 44       | Texas. . . . .           | 9441                 |          |           | 9442               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 45       | Utah . . . . .           | 9451                 |          |           | 9452               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |

CONTINUE WITH 11 ON PAGE 14

**11** What was the cost of the R&D your company performed in each of the 50 United States and D.C during 2004?  
 (Please report R&D performed for each source of funding.) - Continued

| Line No. | State  | 2004                 |          |           |                    |          |           |
|----------|--|----------------------|----------|-----------|--------------------|----------|-----------|
|          |  | (1)<br>Federal funds |          |           | (2)<br>Total funds |          |           |
|          |  | \$ Billions          | Millions | Thousands | \$ Billions        | Millions | Thousands |
| 46       | Vermont . . . . .  | 9461                 |          |           | 9462               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 47       | Virginia . . . . .   | 9471                 |          |           | 9472               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 48       | Washington . . . . .   | 9481                 |          |           | 9482               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 49       | West Virginia . . . . .  | 9491                 |          |           | 9492               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 50       | Wisconsin . . . . .  | 9501                 |          |           | 9502               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
| 51       | Wyoming . . . . .  | 9511                 |          |           | 9512               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |
|          | <b>TOTAL</b> (Add lines 1 through 51. The sum should equal the totals reported in 4, line D, columns 1 and 3.) . . . . | 9541                 |          |           | 9542               |          |           |
|          | Amount reported in 2003  |                      |          |           |                    |          |           |

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

**12** What was the cost of the energy-related R&D your company performed in the 50 United States and D.C. during 2004?

*(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 4, line D, columns 1 and 3.)*

**A.** Fossil fuels . . . . . *Mark "X" if no fossil fuel R&D was performed*

Amount reported in 2003

**B.** Geothermal and solar . . . . . *Mark "X" if no geothermal or solar R&D was performed*

Amount reported in 2003

**C.** Nuclear. . . . . *Mark "X" no nuclear R&D was performed*

Amount reported in 2003

**D.** All other energy sources. . . . . *Mark "X" if no energy R&D was performed*

Amount reported in 2003

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

Amount reported in 2003

| 2004                 |          |           |                    |          |           |
|----------------------|----------|-----------|--------------------|----------|-----------|
| (1)<br>Federal funds |          |           | (2)<br>Total funds |          |           |
| \$ Billions          | Millions | Thousands | \$ Billions        | Millions | Thousands |
| 10211                |          |           | 10212              |          |           |
|                      |          |           |                    |          |           |
| 10311                |          |           | 10312              |          |           |
|                      |          |           |                    |          |           |
| 10111                |          |           | 10112              |          |           |
|                      |          |           |                    |          |           |
| 10411                |          |           | 10412              |          |           |
|                      |          |           |                    |          |           |
| 10511                |          |           | 10512              |          |           |
|                      |          |           |                    |          |           |

**13** What was the cost of the R&D performed by your company in the 50 United States and D.C. company-funded in collaboration with the type of R&D partner listed below during 2004?  
 (These expenditures should also be included as part of the information reported in 4, line D, column 2.)

| 2004                               |          |           |
|------------------------------------|----------|-----------|
| Company and other nonfederal funds |          |           |
| \$ Billions                        | Millions | Thousands |
| 1101                               |          |           |
|                                    |          |           |
| Amount reported in 2003            |          |           |
| 1102                               |          |           |
|                                    |          |           |
| Amount reported in 2003            |          |           |
| 0000                               |          |           |
|                                    |          |           |
| Amount reported in 2003            |          |           |
| 1103                               |          |           |
|                                    |          |           |
| Amount reported in 2003            |          |           |
| 1104                               |          |           |
|                                    |          |           |
| Amount reported in 2003            |          |           |
| 1110                               |          |           |
|                                    |          |           |
| Amount reported in 2003            |          |           |

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

Amount reported in 2003

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

Amount reported in 2003

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

Amount reported in 2003

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

Amount reported in 2003

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

Amount reported in 2003

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

Amount reported in 2003



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

- 14 A.** Do the R&D expenditures reported on this form cover the entire fully consolidated enterprise, including all subsidiaries, affiliates, or branches located in the 50 United States and D.C.? (Mark "X" only ONE box.)

1301  Yes

0000  No - Please explain in 16.

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

1302  Publicly owned

0000  Privately owned

0000  Other - Please describe ↴

- 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

- 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

- 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

- 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% ownership

1316  More than 0% but less than 10% ownership

1317  10%-50% ownership

1318  More than 50% ownership

**15** REPORTING PERIOD AND CONTACT INFORMATION

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

0078  Yes

0079  No - Enter time period covered →

FROM 0070

| Month | Year |
|-------|------|
|       |      |

TO 0071

| Month | Year |
|-------|------|
|       |      |

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

0000  Yes

0000  No - How many locations? →

|  |
|--|
|  |
|--|

**C.** Did more than one person complete this form?

0000  Yes

0000  No - How many? →

|  |
|--|
|  |
|--|

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

**16** 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.**