



# 2007 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](http://www.census.gov/econhelp/rd)

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

- OR -

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

**Option to file electronically** is located at [www.census.gov/econhelp/rd](http://www.census.gov/econhelp/rd)

**INFORMATION COPY  
DO NOT USE TO REPORT**

(Please correct any errors in this mailing address.)

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

This survey is conducted jointly with the National Science Foundation.

## RESEARCH AND DEVELOPMENT (R&D)

R&D includes basic and applied research in the sciences and engineering. It also includes design and development of new products and processes and enhancement of existing products and processes.

R&D includes activities carried on by persons trained, either formally or by experience, in the physical sciences such as chemistry and physics, the biological sciences such as medicine, and engineering and computer science. R&D includes these activities if the purpose is to do one or more of the following things:

1. Pursue a planned search for **new scientific knowledge** or understanding that does not have specific immediate commercial objectives, although it may be in fields of present or potential commercial interest. (Basic research)
2. Apply the findings of basic research or other **existing knowledge** toward discovering **new scientific knowledge** that has specific commercial objectives, including work required to evaluate possible uses, with respect to new products, services, processes, or methods. (Applied research)

**3. Systematically use the knowledge or understanding gained from research and practical experience** in the production or **significant improvement** of products, services, processes, or methods, including the design and development of prototypes, materials, devices, and systems. (Development)

Research and development includes the activities described above whether assigned to separate R&D organizational units of the company or carried out by company laboratories and technical groups not part of an R&D organization. Reporting the R&D activities of such latter groups may require the use of estimates for some of your responses.

Activities to be **excluded** from R&D are as follows: research in social sciences or psychology, routine product testing, geological and geophysical exploration activities and technical services.

See instructions for more detail.

**1** Did your company conduct R&D in 2007? (Mark "X" only ONE box.)

201  Yes - Complete form, enter zeros where applicable, and return this form.

203  No - Either call TDE to report (1-800-851-2014) OR mark the 203 box and mail the form.

**NOTE** - After reviewing **1** if you need further assistance please call 1-800-851-2014, option "0".

11001013



Dollar figures should be rounded to thousands of dollars.

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

| 2007        |          |           |
|-------------|----------|-----------|
| \$ Billions | Millions | Thousands |
|             | 1 0 2 6  |           |

**2** What was the amount of your company's **sales, shipments, operating receipts, or revenues**, net of returns and allowances attributable to domestic operations in the 50 United States or D.C. during 2007? (EXCLUDE domestic intracompany transfers and sales by foreign subsidiaries. INCLUDE receipts for sales of products and services provided to other companies, individuals, U.S. Government agencies, and foreign countries.) . . . . . Mark "X" if None 0130

| 2007        |          |           |
|-------------|----------|-----------|
| \$ Billions | Millions | Thousands |
| 102         |          |           |

**3** How many **employees** worked in the 50 United States or D.C. for your company on March 12, 2007? (INCLUDE number of full- and part-time employees whose payroll was reported on Internal Revenue Service Form 941, Employer's Quarterly Federal Tax Return.) . . . . . Mark "X" if None 0131

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

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

| January 1, 2008 |  |
|-----------------|--|
| Number of FTEs  |  |
| 206             |  |

(See Instructions for the definition of FTE scientists and engineers.) . . . . . Mark "X" if None 0134

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

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

Mark "X" if no basic research 0135

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

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

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

Mark "X" if no development 0137

**D. TOTAL** (Add lines A through C.)

Mark "X" if no R&D . . . . . 0138

| 2007                 |          |           |   |          |           |                                     |          |           |  |
|----------------------|----------|-----------|---|----------|-----------|-------------------------------------|----------|-----------|--|
| (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                                 |          |           |  |
|                      |          |           |   |          |           |                                     |          |           |  |
| 314                  |          |           | 315                                       |          |           | 316                                 |          |           |  |
|                      |          |           |   |          |           |                                     |          |           |  |
| 324                  |          |           | 325                                       |          |           | 326                                 |          |           |  |
|                      |          |           |   |          |           |                                     |          |           |  |
| 344                  |          |           | 345                                       |          |           | 346                                 |          |           |  |
|                      |          |           |   |          |           |                                     |          |           |  |

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

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

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

| 2008                 |          |           |   |          |           |                                     |          |           |  |
|----------------------|----------|-----------|---|----------|-----------|-------------------------------------|----------|-----------|--|
| (1)<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 |  |
| 403                  |          |           | 402                                       |          |           | 401                                 |          |           |  |
|                      |          |           |   |          |           |                                     |          |           |  |

11001021

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

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

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

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

| 2007                 |          |           |   |          |           |                                     |          |           |
|----------------------|----------|-----------|---|----------|-----------|-------------------------------------|----------|-----------|
| (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                                 |          |           |
|                      |          |           |   |          |           |                                     |          |           |

**8 and 9** Not Applicable.

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

Mark "X" if None 0147

- A.** More than 50% ownership (This category includes wholly owned subsidiaries and locations.) . . . . .
- B.** 10% to 50% ownership . . . . .
- C.** More than 0% but less than 10% ownership . . . . .
- D.** 0% - No company ownership . . . . .
- E. TOTAL** (Add lines A through D.) . . . . .

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

**11 and 12** Not Applicable.

11001039



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

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

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

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

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

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

**C. Materials and supplies consumed**

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

**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

**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

**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

11001047



**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 were the costs for the following areas?

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

**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

**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

**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

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

**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

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

7001  Yes - Go to **16**.

7002  No - Go to **19**.

**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?

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

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

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

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

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

**17 and 18** Not Applicable.

11001054



**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 **2**.

**B.** Was this company owned or controlled by another company on December 31, 2007?

001  Yes - Give date acquired at right AND enter new owner name and mailing address below **7**

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

6030 Name of new owner or operator

6031 Mailing address (Number and street, P.O. box, etc.)

6032 City, town, village, etc.

6033 State

6034 ZIP Code

No

**CHECK ITEM** - Please complete the check list below BEFORE returning this form. By checking these items you will reduce the likelihood of our calling you to resolve an error or inconsistency.

**In 2:** Are sales reported in **thousands** of dollars?

Yes

No

**In 3:** Does your answer describe the number of **employees**, NOT company payroll?

Yes

No

**In 5:** Does the **Federal funds** (column 1) plus **Company funds** (column 2) equal **Total funds** (column 3) for each of the following rows?

Basic research (**5A**), applied research (**5B**), development (**5C**), total research and development (**5D**).

Yes

No

If the answer to any of the above checks is "No," please make the necessary corrections in the appropriate item(s) or provide an explanation in **2**.

11001062



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

**20** Reporting period, location of records, and contact information

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

0078  Yes

0079  No - Enter time period covered → FROM

| Month | Year |
|-------|------|
| 0070  |      |
|       |      |

TO

| Month | Year |
|-------|------|
| 0071  |      |
|       |      |

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

0080  Yes

0081  No - How many locations? →

0086

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

0085  Other - Please describe →

0087

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

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

0084

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

0072 Name of person to contact regarding this report

0073 Title

Telephone 0074

| Area code | Number |   |  | Extension |
|-----------|--------|---|--|-----------|
|           |        | - |  |           |

Fax 0075

| Area code | Number |   |  |
|-----------|--------|---|--|
|           |        | - |  |

Date completed 0069

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

0076 Internet e-mail address

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

11001070



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

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