



2003 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 information sheet(s) 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.

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(Please correct any errors in this mailing address.)

You will satisfy the mandatory reporting requirements for this survey if you answer 2, lines A and B; and 4, line D, columns (1) and (3).

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.

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 2003? (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".

HOW TO REPORT DOLLAR FIGURES

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

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

2003		
\$ Bil.	Mil.	Thou.
	1 0 2	6

- 2** **A.** What was the amount of your company's domestic sales, shipments, operating receipts, or revenues, net of returns and allowances? (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.) 102
- B.** How many employees worked in the United States for your company on March 12, 2003? (Include number of full- and part-time employees whose payroll was reported on Internal Revenue Service Form 941, Employer's Quarterly Federal Tax Return.) 112

2003		
\$ Bil.	Mil.	Thou.

Number

- 3** What was the number of full-time equivalent (FTE) scientists and engineers employed by your company as of January 1, 2004?
- (See instructions for the definition of FTE scientists and engineers.) 206

January 1, 2004
Number of FTEs

- 4** What was the cost of R&D performed within your company in the 50 United States and D.C.?
- (Please report R&D performed for each source of funding.)
- A.** Basic research (Research for the advancement of scientific knowledge without specific immediate commercial objectives.)
- B.** Applied research (Research directed primarily towards a specific commercial or practical objective.)
- C.** Development (Activity translating research into new or improved goods, services or processes.)
- D. TOTAL** (Sum lines A through C).

2003								
Federal funds (1)			Company and other (2)			Total (Columns (1)+(2)) (3)		
\$ Bil.	Mil.	Thou.	\$ Bil.	Mil.	Thou.	\$ Bil.	Mil.	Thou.
304			305			306		
314			315			316		
324			325			326		
344			345			346		

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- 5** For 2004 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 2003 figure reported in 4, line D, column (2).) 401

2004		
\$ Bil.	Mil.	Thou.

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

2003								
Federal funds (1)			Company and other (2)			Total (Columns (1)+(2)) (3)		
\$ Bil.	Mil.	Thou.	\$ Bil.	Mil.	Thou.	\$ Bil.	Mil.	Thou.
354			355			356		

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

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

2003		
Company and other (2)		
\$ Bil.	Mil.	Thou.

- A. 0% 363
- B. More than 0% but less than 10% 364
- C. 10% - 50% 365
- D. More than 50% 366
- E. **TOTAL** (Sum lines A through D.) 369

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8-9 Not Applicable.

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?

Key code	2003 (1)		
	\$ Bil.	Mil.	Thou.
7			
11			
21			
31			
41			
51			

- 1. Biotechnology (The use of scientific and engineering data and techniques for the study and solution of problems concerning living organisms.)
- 2. Software development (The formulation of programs, applications, routines, etc., for computers, excluding those used exclusively for internal company operations.)
- 3. Materials synthesis and processing (The use of scientific and engineering data and techniques for the formulation and manipulation of new materials.)
- 4. Other areas
- 5. **TOTAL** (Sum lines 1 through 4. The sum should equal the total reported in **4**, line D, column (3).)

B. What percentage of the R&D costs reported in **10A** are attributable to nanotechnology for each of the following types of technologies? (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.)

Key code	2003 (2)	
	Whole percents	
7		
11		%
21		%
31		%
41		%

- 1. Biotechnology (The use of scientific and engineering data and techniques for the study and solution of problems concerning living organisms.)
- 2. Software development (The formulation of programs, applications, routines, etc., for computers, excluding those used exclusively for internal company operations.)
- 3. Materials synthesis and process (The use of scientific and engineering data and techniques for the formulation and manipulation of new materials.)
- 4. Other areas

11-13 Not Applicable.

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.?

1301 Yes No - Please explain in "REMARKS" below.

B. Was this company owned or controlled by another company on December 31, 2003?

001 Yes - Give date acquired at right AND enter new owner name and mailing address below No

Month	Year

0018

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	

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 **2A:**

1. Sales is reported in **thousands** of dollars

In **2B:**

2. Your answer describes the number of **employees**, NOT company payroll

In **4:**

3. Verify that **Federal funds** (column (1)) plus **Company funds** (column (2)) equals **Total funds** (column (3)) for:

Basic research (**4A**), applied research (**4B**), development(**4C**), total research and development (**4D**)

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 THE "REMARKS" SECTION.

15 CONTACT INFORMATION

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

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

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

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Thank you for completing your 2003 SURVEY OF INDUSTRIAL RESEARCH AND DEVELOPMENT form.

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