

PLEASE RETURN BY:

OMB No. 3145-0027: Approval Expires 1/31/2005

NOTICE – 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 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.

FORM **RD-1**
(2-11-2002)

U.S. DEPARTMENT OF COMMERCE
Economics and Statistics Administration, U.S. CENSUS BUREAU
COLLECTING AND COMPILING AGENT FOR
THE NATIONAL SCIENCE FOUNDATION

SURVEY OF INDUSTRIAL RESEARCH AND DEVELOPMENT DURING 2001

In correspondence pertaining to this report refer to this **IDENTIFICATION NUMBER (ID) (11 digits)** ►

RETURN TO

**U.S. Census Bureau
1201 East 10th Street
Jeffersonville, IN 47132-0001**

Name of person who supplied 2000 data

**SAMPLE COPY
Do Not Submit.**

MANDATORY REPORTING REQUIREMENTS

Data supplied in items 1A and 1B and in item 3A, line 3, columns (1) and (3) and in item 9, columns (1) and (2), for 2001 on this form will satisfy the mandatory reporting requirements. (Title 13, U.S. Code.)

PLEASE READ ENCLOSED INSTRUCTIONS BEFORE COMPLETING THIS FORM.

(Please correct any error in name and address, including ZIP Code.)

THIS REPORT SHOULD COVER YOUR ENTIRE CONSOLIDATED DOMESTIC ENTERPRISE, INCLUDING ALL U.S. SUBSIDIARIES AND DIVISIONS.

The term "company" on this form refers to the consolidated domestic enterprise.

- Please complete this form by the date printed at the top of this page and return it in the envelope provided. Make a copy for your records.
- Please read the enclosed instructions before completing this form.
- Report figures in thousands of dollars. Reasonable estimates are acceptable.
- Explain significant changes in year-to-year data in the remarks section.

COVERAGE REVIEW

Was this company owned or controlled by another company on December 31, 2001?

001 Yes – See instructions for Coverage Review.

No – Continue with item 1

Section I – GENERAL COMPANY DATA

Item 1 – RECEIPTS AND EMPLOYMENT FOR THE COMPANY

A. Sales, operating receipts and revenues from all domestic operations of the company, net of returns and allowances. *(Report in thousands of dollars.)*

EXCLUDE domestic intra-company 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.

	2001			2000		
	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.
102						
	Number			Number		

B. Domestic company employment in all activities during the pay period which includes the 12th of March 2001 (Item 1 of I.R.S. Form 941, if one Form 941 was filled for the entire company.)

112	
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Item 2 – NUMBER OF RESEARCH AND DEVELOPMENT SCIENTISTS AND ENGINEERS

Apportion on a full-time equivalent basis. See page 4 of the instruction booklet for more detail.

	January 2002	January 2001
	Number	Number
A. Federal research and development	204	
B. Company and other research and development	205	
C. TOTAL – Sum of lines 2A and 2B →	206	

PLEASE CONTINUE ON REVERSE.

Section I – GENERAL COMPANY DATA – Continued

Item 3 – COSTS INCURRED FOR RESEARCH AND DEVELOPMENT <i>(Report in thousands of dollars)</i>		2001									2000										
		Federal funds (1)			Company and other (2)			Total ((1)+(2)) (3)			Federal funds (4)			Company and other (5)			Total ((4)+(5)) (6)				
		Bil.	Mil.	Thou.	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.		
A. Performed within the company																					
1. Basic research																					
2. Applied research and development																					
a. Applied research		314			315			316													
b. Development		324			325			326													
c. Total – Sum of lines a and b		334			335			336													
3. Total – Sum of lines 1 and 2.c.		344			345			346													
B. Outside the company – Federal funds and company funds for research and development performed by others outside the company within the United States <i>(Exclude from 3A.3. above)</i>																					
C. Foreign – Company funds for research and development performed by foreign subsidiaries or other organizations outside the United States <i>(Exclude from 3A.3. and 3B. above)</i>					365																
D. TOTAL – Company and other funds, except Federal (This line represents company sponsored research and development with the exception of "other funds.") – <i>Sum of 3A.3, B, and C, (column (2))</i> →					375																
Item 4 – COMPANY AND OTHER FUNDS, EXCEPT FEDERAL, FOR RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE COMPANY BUDGETED FOR THE YEAR 2002 (Comparable to the 2001 figure reported in Item 3A.3., column (2).)				2002																	
				Bil.	Mil.	Thou.															
				401																	

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Section II — RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE DOMESTIC COMPANY

Item 5 – COSTS INCURRED FOR FEDERAL RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE COMPANY BY PRINCIPAL GOVERNMENT AGENCY

Allocate the total reported in Item 3A., line 3, column (1), Federal funds, into the following principal agencies:

	Key code	2001 (1)			2000 (2)		
		Bil.	Mil.	Thou.	Bil.	Mil.	Thou.
5							
A. Department of Defense	11						
B. National Aeronautics and Space Administration	21						
C. Department of Energy	31						
D. Other Federal agencies	41						
E. TOTAL COSTS – Sum of lines A through D →	51						

Item 6 – COSTS INCURRED FOR RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE COMPANY BY MAJOR TYPE OF EXPENSE

Allocate the total reported in Item 3A., line 3, column (3), total company research and development – Exclude lines 3B. and 3C.

Key code	2001 (1)			2000 (2)		
	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.
6						
A. Wages and salaries of research and development personnel – Include scientists and engineers, technicians, secretaries, and other personnel.	11					
B. Employers' cost of fringe benefits – Include taxable and non-taxable benefits, 401K plans, employers' contribution to health plans.	21					
C. Costs of materials and supplies consumed – Do not include in this item components, models, and other materials supplied by other research organizations.	31					
D. Depreciation on R & D property and equipment	41					
E. Other costs – Include service and supporting costs, and share of overhead.	51					
F. TOTAL COSTS – Sum of lines A through E →	61					

Item 7 – COSTS INCURRED FOR RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE COMPANY BY TECHNOLOGY AREA

Allocate total expenditures by technology area: (This item should not exceed the value reported in 3.A., line 3, column (3).)

	Key code	2001 (1)			2000 (2)		
		Bil.	Mil.	Thou.	Bil.	Mil.	Thou.
7							
A. Biotechnology	11						
B. Software development	21						
C. Materials Synthesis and Processing	31						
D. Other technology related R&D expenses including nanotechnology	41						
E. TOTAL COSTS – Sum of lines A through D →	51						

Item 8 – COSTS INCURRED FOR RESEARCH AND DEVELOPMENT PERFORMED BY OTHERS OUTSIDE THE COMPANY BUT WITHIN THE UNITED STATES BY TYPE OF ORGANIZATION

Allocate company funds reported in item 3B, column (2), by the type of organization that performed the research and development. (Exclude Federal funds – Item 3B, column (1).)

Key code	2001 (1)			2000 (2)		
	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.
8						
A. For-profit company	11					
B. University or college	21					
C. Nonprofit organization (other than a university or college)	31					
D. TOTAL COSTS – Sum of lines A through C →	41					

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Section II — RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE DOMESTIC COMPANY — Continued

Item 9 — COST OF RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE COMPANY BY STATE

Allocate the total reported in Item 3.A., line 3, columns (1) and (3), by the States in which your various research and development laboratories or facilities are located. Estimate the costs associated with each State. If necessary, you may report up to 10 percent of your total as "Not distributed by State (Key code 52)."

Key code 9	State	2001						2000						Key code 9	State	2001						2000																		
		Federal funds (1)			Total funds (2)			Federal funds (1)			Total funds (2)					Federal funds (1)			Total funds (2)			Federal funds (1)			Total funds (2)															
		Bil.	Mil.	Thou	Bil.	Mil.	Thou	Bil.	Mil.	Thou	Bil.	Mil.	Thou			Bil.	Mil.	Thou	Bil.	Mil.	Thou	Bil.	Mil.	Thou	Bil.	Mil.	Thou	Bil.	Mil.	Thou										
01	AL													27	MT																									
02	AK													28	NE																									
03	AZ													29	NV																									
04	AR													30	NH																									
05	CA													31	NJ																									
06	CO													32	NM																									
07	CT													33	NY																									
08	DE													34	NC																									
09	DC													35	ND																									
10	FL													36	OH																									
11	GA													37	OK																									
12	HI													38	OR																									
13	ID													39	PA																									
14	IL													40	RI																									
15	IN													41	SC																									
16	IA													42	SD																									
17	KS													43	TN																									
18	KY													44	TX																									
19	LA													45	UT																									
20	ME													46	VT																									
21	MD													47	VA																									
22	MA													48	WA																									
23	MI													49	WV																									
24	MN													50	WI																									
25	MS													51	WY																									
26	MO													52	*																									
TOTAL COSTS — Sum of lines 1 through 52 →																954																								

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Section II — RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE DOMESTIC COMPANY — Continued

Item 10 – ENERGY RESEARCH AND DEVELOPMENT PERFORMED WITHIN THE COMPANY

- Report expenditures for energy research and development by type of energy sources. Include the project cost or portion of project cost incurred for the purpose of increasing energy resources or capabilities. These expenditures should be included in Item 3.A., line 3, columns (1) and (3).
- Estimate expenditures for energy research by energy source for 2002.

	Key code	2001						2002						2000					
		Federal funds (1)			Total funds (2)			Projected Federal funds (3)			Projected total funds (4)			Federal funds (1)			Total funds (2)		
		Bil.	Mil.	Thou.	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.	Bil.	Mil.	Thou.
A. Nuclear	11																		
B. Fossil fuels	21																		
C. Geothermal, solar, conservation and utilization	31																		
D. All other energy	41																		
E. TOTAL – Sum of lines A through D →	51																		

Section III – RESEARCH AND DEVELOPMENT PERFORMED OUTSIDE THE DOMESTIC COMPANY WITH COMPANY FUNDS

Item 11 – FOREIGN RESEARCH AND DEVELOPMENT BY COUNTRY

Report the amount of total foreign research and development, Item 3.C., column (2), for the countries with the largest expenditures. If necessary, write in countries not listed. Report the balance of foreign research and development on line H.

	Key code	2001 (1)			2000 (2)		
		Bil.	Mil.	Thou.	Bil.	Mil.	Thou.
A. Canada	01						
B. Germany	02						
C. France	03						
D. Japan	04						
E. United Kingdom	05						
F. Puerto Rico	06						
G. Other — Specify →	07						
H. Balance not distributed	08						
I. TOTAL – Sum of lines A through H →	10						

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Section III - RESEARCH AND DEVELOPMENT PERFORMED OUTSIDE THE DOMESTIC COMPANY WITH COMPANY FUNDS - Continued

Item 12 - COVERAGE AND OPERATIONAL STATUS

Are research and development expenditures for the entire domestic enterprise, including subsidiaries, reported on this form?

- Yes
- No - Please explain in the "Remarks" section below.

REMARKS

THANK YOU FOR YOUR RESPONSE.

Item 13 - CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions

Name of person to contact regarding this report	Telephone	Area code	Number	Extension
		Signature of authorized official		Title