

U.S. DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. CENSUS BUREAU

**FORM** 

**RD-1** (02-13-2004)

## 2003 SURVEY OF INDUSTRIAL RESEARCH AND DEVELOPMENT

OMB No. 3145-0027: Approval Expires 01/31/2005

## 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 auestions.

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.

Write to the address above. Include your 11-digit Identification Number (ID) printed in the 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 reporting requirements for this survey if you answer ②, lines A and B; ④, line D, columns (1) and (3); and ①, columns (1) and (2).

Name of person who supplied 2002 data

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(Please correct any errors in this mailing address.)

Except as noted, this report covers your entire consolidated domestic enterprise, including all U.S. subsidiaries, affil Reasonable estimates are acceptable.	iates, and branches	<b>6.</b>
Was this company owned or controlled by another company on December 31, 2003?		
001 ☐ Yes - See instructions. ☐ No - Go to ②.		
	2003	
HOW TO REPORT DOLLAR FIGURES  Dollar figures should be <b>rounded</b> to <b>thousands</b> of dollars.	\$ Bil.   Mil.   Thou.	
If a figure is \$1,025,628.79: Report	1026	
	2003	2002
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	\$ Bil. Mil. Thou.	\$ Thou.
for sales of products and services provided to other companies, individuals, U.S. Government agencies, and foreign countries.)	1 1	
B. How many employees worked in the United States for your company on March 12, 2003? (Include number of full-	Number	Number
and part-time employees whose payroll was reported on Internal Revenue Service Form 941, Employer's Quarterly Federal Tax Return.)		

	RD-1 (02-13-2004)													1 (	age
3	What was the number of full-time equivalent (FTE January 1, 2004 who worked on the following typ	) scient es of R	tists and &D?	d engir	ieers en	nploye	d by yo	ur com	pany a	s of	[	Janua	ry 1, 2004	January 1, 2003	
	(See instructions for the definition of FTE scientist	ts and e	nd engineers.)									Number of FTEs		Number of FTEs	
	A. Federally-funded R&D										- 204				
	<b>B.</b> Nonfederal R&D funded by your company and	other	nonfede	eral sou	ırces .						- 205				
	C. TOTAL (Sum lines A and B)										- 206				
4	What was the cost of R&D performed within your company in the 50 United States and D.C.?					2003							2002		
	(Please report R&D performed for each source	Federal funds			Company and other			Total (Columns (1)+(2))			Federal funds		Company an other	d Total (Columns (4)	+(5))
	of funding.)		(1)			(2)			(3)		(4	1)	(5)	(6)	
	A. Basic research (Research for the	\$ Bil.	Mil.	Thou.		Mil.	Thou.	\$ Bil.	Mil.	Thou.	\$ Tł	iou.	\$ Thou.	\$ Thou.	
	advancement of scientific knowledge	304			305			306							
	without specific immediate commercial objectives.)														
	B. Applied research (Research directed	314	'		315			316							
	primarily towards a specific commercial or practical objective.)														
	C. Development (Activity translating research	324			325			326							
	into new or improved goods, services or processes.).						ı L								
		344			345			346							
	D. TOTAL (Sum lines A through C)														

$\overline{}$				
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.?		2004	
	performed by your company in the 30 officed olates and b.o.:	\$ Bil.	Mil.	Thou.
	(Comparable to the 2003 figure reported in 4 line D. column			

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

**A.** What was the cost of R&D performed by others for your company in the 50 United States and D.C.?

				2003		2002						
Fed	Federal funds			Company and other (Co				)+(2))	Federal funds	Company and other	Total (Columns (4)+(5))	
	(1)			(2)		(3)			(4)	(5)	(6)	
\$ Bil.	\$ Bil. Mil. Thou.		\$ Bil.	Mil.	Thou.	\$ Bil.	\$ Bil. Mil. Thou.		\$ Thou.	\$ Thou.	\$ Thou.	
354			355			356						

2002

(Please report R&D performed for each source of funding.) . . . . . . . . . . . . . . . .

В.	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?
	1. For-profit companies

others for your company in the 50 United States and D.C. by	code		(1)		(2)	
the following types of organizations?	8	\$ Bil.	Mil.	Thou.	\$ Thou.	
<b>1.</b> For-profit companies	11					
<b>2.</b> Universities or colleges	21					
<b>3.</b> Other nonprofit organizations	31					

2003

4. TOTAL (Sum lines 1 through 3. The sum should equal the total reported in line A, column (2).)	41	
the total reported in line A, column (2).	41	

 41	

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outside of the 50 United States and D.C. by your subsidiaries,			2003		2002	
affiliates, or branches, or by other organizations in which you company owns the following percentages of voting stock or equivalent interest?	r	Co	mpany other	and	Company and other	
			(2)		(5)	
		\$ Bil.	Mil.	Thou.	\$ Thou.	
<b>1.</b> 0%	363					
<b>2.</b> More than 0% but less than 10%	364			+		
<b>3.</b> 10%-50%	365					INFORMATION COPY NOT USE TO REPOR
<b>4.</b> More than 50%	366					NFORMATTO REPO
<b>5. TOTAL</b> (Sum lines 1 through 4.)	369					NOT USE TO
What was the cost of your company-funded R&D that was performed outside the 50 United States and D.C. by your					DC	) No
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	Key code		<b>2003</b> (1)		<b>2002</b> (2)	
Puerto Rico?	12	\$ Bil.	Mil.	Thou.	\$ Thou.	
<b>1.</b> Canada	01					
<b>2.</b> Germany	02					
<b>3.</b> France	03					
<b>4.</b> Japan	04					
<b>5.</b> United Kingdom	05					
<b>6.</b> Puerto Rico	06					
7. Other - Specify						
1209	07					
8. TOTAL (Sum lines 1 through 7. The sum should equal the amount reported in line A4.)	10					

UIII	(U2-13-2004)						
If n Nu	not shown, please enter your 11-digit Identification mber (ID) from the mailing address.						
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?	Key code		<b>2003</b> (1)		2002 (2)	
	A. Department of Defense (DoD)	5	\$ Bil.	Mil.	Thou.	\$ Thou.	
	B. National Aeronautics and Space Administration (NASA)						
	C. Department of Energy (DOE)						
	<b>D.</b> Other Federal agencies						
	E. TOTAL (Sum lines A through D. The sum should equal the total reported in ②, line D, column (1).)	51					
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?	Key code		<b>2003</b> (1)		<b>2002</b> (2)	
	A. Wages and salaries of R&D personnel	6	\$ Bil.	Mil.	Thou.	\$ Thou.	
	(Include scientists and engineers, technicians, secretaries, and other personnel.)	11		 			
	<b>B.</b> Fringe benefits of R&D personnel (Include taxable and nontaxable benefits, 401K plans, employers' contribution to health plans.)	21			l		
	C. Materials and supplies consumed (Include the cost of all purchased materials consumed.)						
	<b>D.</b> Depreciation on R&D property and equipment (Include depreciation and amortization costs for property and equipment used for R&D during the year.)						
	E. All other R&D expenses	41					
	(Include R&Ds share of company overhead and other expenses such as utilities, books and periodicals, and property and other taxes.)	51					

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		<b>2003</b> (1)			<b>002</b> 3)
1. Biotechnology (The use of scientific and engineering data and techniques for the study and solution of problems	7	\$ Bil.	Mil.	Thou.	\$ T	hou.
concerning living organisms.)	11					
2- Software development (The formulation of programs, applications, routines, etc., for computers, excluding those used exclusively for internal company operations.)	21					
3. Materials synthesis and processing (The use of scientific						
and engineering data and techniques for the formulation and manipulation of new materials.)	31					
<b>4.</b> Other areas	41					
5. TOTAL (Sum lines 1 through 4. The sum should equal						
the total reported in <b>3</b> , line D, column (3).)	51					
<b>B.</b> What percentage of the R&D costs reported in <b>©</b> A are attributable to nanotechnology for each of the following types of technologies?		200	02	20	02	
(Nanotechnology is defined as the creation and utilization of	Key code	(2		(4		
materials, devices, and systems through the control of matter		Wh	ole	Wh	ole	

on the nanometer scale, at the level of atoms and molecules percents percents in the range of 1 to 100 nanometers.) 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 % % % 

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

What was the cost of the R&D your company performed in each of the fifty States and the District of Columbia?

(Please report R&D performed for each source of funding.)

qe				20	03			20	02	qe				20	03			20	02
ω Key code	State	Fed	deral fu	nds	Т	otal fun	ds	Federal funds	Total funds	ω Key code	State	Fee	deral fu	nds	T	otal fun	ds	Federal funds	Total funds
× e		\$ Bil.	(1) Mil.	Thou.	\$ Bil.	(2) Mil.	Thou.	(3) \$ Thou.	(4) \$ Thou.	Ke		\$ Bil.	(1) Mil.	Thou.	\$ Bil.	(2) Mil.	Thou	(3) \$ Thou.	(4) \$ Thou.
9		<b>Э</b> БП.	IVIII.	Thou.	ֆ DII.	IVIII.	Thou.	\$ Thou.	\$ Inou.	9		ֆ DII.	IVIII.	Thou.	ф DII.	IVIII.	Thou.	\$ Inou.	\$ Inou.
01	AL									19	LA								
02	AK									20	ME								
03	AZ	-		l I		l I	1			21	MD		l I			l I			
04	AR						1			22	MA						_		
05	CA	1		1			1			23	МІ			1					
06	со			ı		ı				24	MN		ı						
07	СТ			1		ı	1			25	MS		ı						
08	DE			ı		ı	1			26	МО		ı	1					
09	DC									27	МТ								
10	FL									28	NE								
11	GA									29	NV								_
12	НІ									30	NH						-10	N COPY	
13	ID			1						31	NJ		11	JFC	)RN	A		N COPY REPO	RT
14	IL			1		ı	1			32	NM			MO	TL	JSE			
15	IN	İ		i I		ı	1			33	NY		70	1					
16	IA			ı		ı				34	NC		ı						
17	KS			ı		ı				35	ND		ı						
18	KY			ı		ı	1			36	ОН		ı	1					
						1	-		CONTINUE WIT	НФ	ON P	AGE 8	1	-	ı	1			

ี กา	What was the cost of the R&D	your company perfor	med in each of the fift	y States and the District of	of Columbia?

(Please report R&D performed for each source of funding.) - Continued

Θ.	2003 2002 © Federal funds Total funds Federal funds Total funds													20	03			20	
ω Key code	State Federal funds Total funds Federal funds (1) (2) (3) (4)							Total funds	Key cod	State	Fe	deral fu (1)		1	otal fun (2)	ds	Federal funds (3)	Total funds (4)	
9	9 \$Bil. Mil. Thou. \$Bil. Mil. Thou. \$Thou. 9											\$ Bil.	Mil.	Thou.	\$ Bil.	Mil.	Thou.	\$ Thou.	\$ Thou.
37	ок									45	UT								
38	OR						1			46	VT						1		
39	РА						1			47	VA						1		
40	RI						1			48	WA						1		
41	sc						1			49	wv						1		
42	SD						<u> </u>			50	WI		ļ			ļ	<u> </u>		
43	TN						1			51	WY						1		
44	TX			 			1												
												954							
TOTAL (Sum of lines 1 through 51. The sum should equal the totals reported in 4, line D, columns (1) and (3)																			

<b>P</b>	Wh per	at v for	wa: me	s the d in	co the	st c 50	f th Uni	e ei ted	nergy-r States	elate and	d R8 D.C.	kD y du	you ring	r compa g 2003?	ny

(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. Nuclear																								
------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

	В.	Fossil fuels																				
--	----	--------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

C.	Geothermal and solar							

E.	TOTAL	L (Sum	lines A	through	D) .

				<del>03</del>			20	V2
Key code	Fee	deral fur	nds	To	otal fund	ds	Federal funds	Total funds
		(1)			(2)		(3)	(4)
10	\$ Bil.	Mil.	Thou.	\$ Bil.	Mil.	Thou.	\$ Thou.	\$ Thou.
11								
21								
31								
41		I I			l I			
51		l T		2	CC	P		

2002

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If no Nun	t sh iber	iowi (ID)	n, p fro	lease enter your 11-digit Identification om the mailing address.						
13	the	50 U	Inite	ne cost of the R&D performed by your company in ad States and D.C. company-funded in collaboration e of R&D partner listed below?	Key		2003		2002	
	(The	ese e	expe	enditures should also be included as part of the			(1)	T1	(2)	
	11110	IIIIa	LIOII	reported in 🚭, line D, column (2).)	11	\$ Bil.	Mil.	Thou.	\$ Thou.	
	<b>A.</b> [	For-p	orofi	t companies	01					
	В. Г	Fede	ral l	aboratories	02					
	<b>C</b> . (	Univ	ersi	ties or colleges	03					
	<b>D</b> . (	Othe	r no	nprofit organizations	04					
	E. 1	тот	AL	(Sum lines A through D)	10					
14	<b>A.</b> [	Do th	ne R	&D expenditures reported on this form cover the entire d States and D.C.? (Mark "X" only ONE box.)	full	y conso	olidated	d enterp	rise, including a	I subsidiaries, affiliates, or branches located in the
	1	1301		Yes						
				No - Please explain in the "REMARKS" section.						
	<b>B</b> . \	Was	you	r company publicly or privately owned? (Mark "X" only	ON	E box.)				
	1	1302		Publicly owned						
				Privately owned						
	<b>C</b> . (	Othe (by r	r tha	an the parent company, how many subsidiaries, affiliatens of voting stock or other equivalent interest) are include	es, o ded	r brand in this	hes lo	cated in ( <i>Mark</i>	the 50 United S	tates and D.C. owned or controlled by your company x.)
	1	1303		None						
	1	1304		1						
	1	1305		2-5						
	1	1306		More than 5						
	<b>D</b> . (	Othe	r tha	an the parent company, how many subsidiaries, affiliate ( (by means of voting stock or other equivalent interest)	) are	e includ	ed in t	his renc	ort? (Mark "X" on	ly ONF box )
		1307	_ `	None				·		
		1308	П	1					ION CC	
				0.5			RN	AI	- 5E	PORT
	1		_	2-5	N		_ = 1	SF	ION CC TO RE	
	1	1310		More than 5		NO	TU			
				DO						

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

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