

TABLE 27. Company and other nonfederal funds for industrial R&D performance in the United States as a percent of net sales of companies that performed industrial R&D in the United States, by industry and size of company: 1999–2002  
(Percent)

Industry and size of company	NAICS codes	1999 <sup>a</sup>	2000	2001	2002	Percent change 2002/2001
Distribution by industry:						
All industries	21–23, 31–33, 42, 44–81	3.3	3.4	3.8	3.6	-5
Manufacturing	31–33	3.2	3.3	3.6	3.2	-11
Food	311	0.4	0.4	0.5	0.6	20
Beverage and tobacco products	312	(D)	0.7	0.4	0.5	25
Textiles, apparel, and leather	313–16	0.7	0.8	0.8	0.8	0
Wood products	321	0.5	0.8	1.1	0.7	-36
Paper, printing and support activities	322, 323	1.4	1.6	2.1	1.3	-38
Petroleum and coal products	324	(D)	0.3	0.3	0.4	33
Chemicals	325	5.1	5.9	4.8	5.9	23
Basic chemicals	3251	2.0	2.3	2.2	2.5	14
Resin, synthetic rubber, fibers, and filament	3252	4.2	5.6	4.5	3.9	-13
Pharmaceuticals and medicines	3254	10.5	9.8	7.8	9.6	23
Other chemicals	325 minus (3251–52, 3254)	3.2	3.6	3.2	3.1	-3
Plastics and rubber products	326	1.9	1.8	2.9	1.8	-38
Nonmetallic mineral products	327	1.5	1.8	2.3	1.2	-48
Primary metals	331	0.4	0.5	0.7	0.7	0
Fabricated metal products	332	1.4	1.4	1.6	1.4	-13
Machinery	333	3.3	3.8	4.2	4.3	2
Computer and electronic products	334	8.5	7.9	10.9	7.6	-30
Computers and peripheral equipment	3341	6.4	6.5	7.6	7.5	-1
Communications equipment	3342	11.6	9.6	16.6	11.6	-30
Semiconductor and other electronic components	3344	8.3	7.4	10.5	8.6	-18
Navigational, measuring, electromedical, and control instruments	3345	9.1	8.0	7.3	5.4	-26
Other computer and electronic products	334 minus (3341–42, 3344–45)	5.8	4.3	13.5	5.3	-61
Electrical equipment, appliances, and components	335	2.3	2.1	2.9 (S)	2.7	-7
Transportation equipment	336	2.9	3.1	3.4	2.8	-18
Motor vehicles, trailers, and parts	3361–63	2.9	3.2	3.5	3.1	-11
Aerospace products and parts	3364	3.2	2.8	3.0	2.3	-23
Other transportation equipment	336 minus (3361–64)	1.6	1.8	2.5 (S)	2.9	16
Furniture and related products	337	0.7	0.8	0.9	0.8	-11
Miscellaneous manufacturing	339	5.7	8.7	6.6	7.9	20
Medical equipment and supplies	3391	7.7	13.1	9.0	9.7	8
Other miscellaneous manufacturing	339 minus (3391)	2.3	2.3	2.0	4.1	105
Other manufacturing	31–33 minus (311–16, 321–27, 331–37, 339)	--	--	--	--	(na)
Nonmanufacturing	21–23, 42, 44–81	3.4	3.8	4.0	4.1	2
Mining, extraction, and support activities	21	1.9	1.0	1.3	3.2	146
Utilities	22	0.1	0.1	0.0	0.1	(na)
Construction	23	3.1	1.9	1.4	0.6	-57
Trade	42, 44, 45	5.5	5.3	6.2	5.0	-19
Transportation and warehousing	48, 49	0.5	0.3	2.4	0.5	-79
Information	51	3.4	4.0	4.4	4.0	-9

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(Percent)

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Distribution by industry:						
Publishing	511	13.4	16.3	15.0	16.4	9
Newspaper, periodical, book, and database	5111	2.0	2.0	2.7	2.8	4
Software	5112	16.7	20.4	19.3	21.4	11
Broadcasting and telecommunications	513	0.4	0.4	0.5	0.7 (S)	40
Radio and television broadcasting	5131	(D)	(D)	1.1	0.2	-82
Telecommunications	5133	(D)	(D)	0.5	0.7 (S)	40
Other broadcasting and telecommunications	513 minus (5131, 5133)	(D)	(D)	(D)	9.2	(na)
Other information	51 minus (511, 513)	8.6	4.9	4.7	2.0	-57
Finance, insurance, and real estate	52, 53	0.5	1.2	0.7	0.6	-14
Professional, scientific, and technical services	54	11.6	14.9	13.7	11.2	-18
Architectural, engineering, and related services	5413	6.8	7.1	5.2	5.3	2
Computer systems design and related services	5415	11.0	11.8	16.5	14.3	-13
Scientific R&D services	5417	32.1	32.3	36.5	17.6	-52
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	1.9	6.1	1.9	2.8	47
Management of companies and enterprises	55	5.7	4.4	7.8	7.6	-3
Health care services	621–23	6.4	2.8	4.1	15.1	268
Other nonmanufacturing	56, 61, 624, 71, 72, 81	0.9	1.0	1.4	1.9	36
Distribution by size of company (number of employees):						
Total	(na)	3.3	3.4	3.8	3.6	-5
5 to 24	(na)	16.6	17.2	12.9	7.1	-45
25 to 49	(na)	10.6	13.4	10.6	8.9	-16
50 to 99	(na)	13.0	11.2	10.4	7.1	-32
100 to 249	(na)	6.9	8.0	10.8	9.0	-17
250 to 499	(na)	5.9	6.1	8.0	4.0	-50
500 to 999	(na)	4.0	4.7	5.7	6.9	21
1,000 to 4,999	(na)	3.1	3.5	4.2	4.0	-5
5,000 to 9,999	(na)	2.2	2.2	2.5	3.4	36
10,000 to 24,999	(na)	2.8	3.1	3.5	2.9	-17
25,000 or more	(na)	2.8	2.9	3.0	2.8	-7

(D) = data have been withheld to avoid disclosing operations of individual companies; (S) = indicates imputation of more than 50 percent; (-) = indicates data not collected; (na) = not applicable.

<sup>a</sup> Some percentages for 1999 have been revised since originally published.

NOTES: The R&D in this table is the industrial R&D performed within company facilities funded from all sources except the federal government. The funds predominantly are the company's own, but also include funds from outside organizations such as other companies, research institutions, universities and colleges, nonprofit organizations, and state governments. Excluded from this table are company-funded R&D not performed within the company (e.g., R&D contracted out to other organizations) and company-funded R&D not performed within the 50 U.S. states or DC (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations).

For information on sampling for 1999–2002, see appendix A, Technical Notes.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2002.