

Appendix table 4-22

(Page 1 of 2)

**Company and other (nonfederal) R&D fund share of net sales in R&D-performing companies, by industry and company size: 2001–05**

(Percent)

Industry/size of company	NAICS code	2001	2002	2003	2004	2005
All industries.....	21–23, 31–33, 42, 44–81	3.8	3.6	3.2	3.4	3.3
Manufacturing industries.....	31–33	3.7	3.3	3.1	3.4	3.6
Food.....	311	0.5	0.6	0.6	0.6	0.7
Beverage and tobacco products.....	312	0.4	0.5	0.5	1.3 i	1.4 i
Textiles, apparel, and leather.....	313–16	0.8	0.8	1.0	1.2	1.6
Wood products.....	321	1.1	0.7	0.7	0.4	0.8
Paper, printing, and support activities.....	322, 323	2.1	1.3	1.1	1.5	1.5
Petroleum and coal products.....	324	0.3	0.4	0.3	0.4	0.4
Chemicals.....	325	4.8	5.9	5.6	6.6	6.9
Basic chemicals.....	3251	2.2	2.5	2.7	2.1	2.0
Resin, synthetic rubber, fibers, and filament.....	3252	4.5	3.9	3.6	3.1	1.7
Pharmaceuticals and medicines.....	3254	7.8	9.6	8.3	10.0	12.7
Other chemicals.....	Other 325	3.2	3.1	3.2	3.1	3.3
Plastics and rubber products.....	326	2.9	1.8	2.1	1.6	1.9
Nonmetallic mineral products.....	327	2.3	1.2	1.0	1.8	1.8
Primary metals.....	331	0.7	0.7	0.7	0.7	0.5
Fabricated metal products.....	332	1.6	1.4	1.5	1.4	0.8
Machinery.....	333	4.2	4.3	4.2	3.6	3.6
Computer and electronic products.....	334	11.0	8.0	9.3	8.0	9.0
Computers and peripheral equipment.....	3341	7.6	7.5	5.8	4.7	5.4
Communications equipment.....	3342	16.3	12.8	12.7	9.5	14.0
Semiconductor and other electronic components.....	3344	10.5	8.6	11.1	10.8	10.6
Navigational, measuring, electromedical, and control instruments.....	3345	7.3	5.4	7.2	7.1	7.0
Other computer and electronic products.....	Other 334	13.5	5.3	5.8	5.1	5.6
Electrical equipment, appliances, and components.....	335	2.9 i	2.7	2.2	2.7	2.3
Transportation equipment.....	336	3.4	2.8	2.7	2.7	3.0
Motor vehicles, trailers, and parts.....	3361–63	3.5	3.1	2.4	2.4	2.5
Aerospace products and parts.....	3364	3.0	2.3	3.5	4.0	4.8
Other transportation equipment.....	Other 336	2.5 i	2.9	2.7	1.6	1.6
Furniture and related products.....	337	0.9	0.8	0.8	0.8	0.8
Miscellaneous manufacturing.....	339	6.6	7.9	5.6	4.9	6.1
Medical equipment and supplies.....	3391	9.0	9.7	6.3	5.8	7.7
Other miscellaneous manufacturing.....	Other 339	2.0	4.1	3.2	3.2	2.7
Nonmanufacturing industries.....	21–23, 42, 44–81	4.0	4.1	3.3	3.2	2.9
Mining, extraction, and support activities.....	21	1.3	3.2	3.3	2.4	2.0
Utilities.....	22	0.0	0.1	0.1	0.1	0.1
Construction.....	23	1.4	0.6	1.2	2.6	2.2
Wholesale trade.....	42	NA	NA	3.6	2.2	2.0
Retail trade.....	44, 45	NA	NA	0.8	0.8	0.6
Transportation and warehousing.....	48, 49	2.4	0.5	0.4	0.5	0.4
Information.....	51	4.4	4.0	5.7	5.0	5.3
Publishing.....	511	15.0	16.4	17.9	19.1	17.1
Newspaper, periodical, book, and database.....	5111	2.7	2.8	2.8	4.0	3.0
Software.....	5112	19.3	21.4	23.4	23.3	21.9
Broadcasting and telecommunications.....	513	0.5	0.7 i	0.8	0.8	NA
Telecommunications.....	5133	0.5	0.7 i	0.8	D	NA
Other broadcasting and telecommunications.....	Other 513	NA	NA	4.3	D	NA
Telecommunications.....	517	NA	NA	NA	NA	1.0
Wired and wireless (except satellite) telecommunications carriers....	5171, 5172	NA	NA	NA	NA	1.1
Satellite telecommunications.....	5174	NA	NA	NA	NA	3.4
Other telecommunications.....	Other 517	NA	NA	NA	NA	0.5 i
Internet service providers, Web search portals, and data processing services.....	518	NA	NA	NA	NA	8.7
Internet service providers and Web search portals.....	5181	NA	NA	NA	NA	9.0
Data processing, hosting, and related services.....	5182	NA	NA	NA	NA	8.6
Other information.....	Other 51	4.7	2.0	5.0	4.4	0.5
Finance, insurance, and real estate.....	52, 53	0.7	0.6	0.3	0.4	0.5
Professional, scientific, and technical services.....	54	13.7	11.2	10.2	13.0	10.0
Architectural, engineering, and related services.....	5413	5.2	5.3	7.8	6.6	4.9
Computer systems design and related services.....	5415	16.5	14.3	9.8	11.7	9.6

Appendix table 4-22

(Page 2 of 2)

**Company and other (nonfederal) R&D fund share of net sales in R&D-performing companies, by industry and company size: 2001–05**

(Percent)

Industry/size of company	NAICS code	2001	2002	2003	2004	2005
Scientific R&D services .....	5417	36.5	17.6	16.5 i	29.6	27.4
Other professional, scientific, and technical services .....	Other 54	1.9	2.8	3.3	5.8	3.0
Management of companies and enterprises <sup>a</sup> .....	55	7.8	7.6	4.1 i	NA	NA
Health care services .....	621–23	4.1	15.1	2.2	1.8	3.9
Other nonmanufacturing .....	56, 61, 624, 71, 72, 81	1.4	1.9	4.9	3.9	2.7
<b>Company size (employees)</b>						
All companies .....	na	3.8	3.6	3.2	3.4	3.3
5–24 .....	na	12.9	7.1	2.2	5.0 i	8.7
25–49 .....	na	10.6	8.9	2.9	11.5	8.7
50–99 .....	na	10.4	7.1	3.9	5.8	7.8
100–249 .....	na	10.8	9.0	1.7	5.5	6.0
250–499 .....	na	8.0	4.0	6.6	5.1	4.9
500–999 .....	na	5.7	6.9	5.8	4.6	4.4
1,000–4,999 .....	na	4.2	4.0	4.1	3.7	3.5
5,000–9,999 .....	na	2.5	3.4	2.6	2.8	2.5
10,000–24,999 .....	na	3.5	2.9	2.8	3.0	3.1
25,000 or more .....	na	3.1	2.9	3.2	2.8	2.8

D = suppressed to avoid disclosure of confidential information; i = imputation of &gt;50%; NA = not available; na = not applicable

NAICS = North American Industry Classification System (1997 Rev. used to classify 2001–04 statistics; 2002 Rev. used for 2005)

<sup>a</sup>Data for management of companies and enterprises (NAICS 55), reported separately for 2001–03, included in other manufacturing for 2004 and 2005.

NOTES: R&D is industrial R&D performed within company facilities funded from all sources except federal government. Funds predominantly 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 are R&D not performed within company (e.g., R&D contracted out to other organizations) and R&D not performed within 50 United States or District of Columbia (e.g., R&D performed outside United States by foreign subsidiaries or other foreign organizations). For more technical information, see <http://www.nsf.gov/statistics/srvyindustry>, accessed 17 April 2007.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Industrial Research and Development (2003).