

Table A-7. Company and other non-Federal funds for industrial R&D performance in the U.S.,
by industry and size of company: 1999-2001

Industry and size of company	NAICS codes	1999 ¹	2000	2001
		[In millions of dollars]		
Distribution by industry:				
All industries	21-23, 31-33, 42, 44-81	160,176	180,421	181,606
Manufacturing	31-33	99,865	110,750	109,221
Food	311	1,132	1,145	1,818
Beverage and tobacco products	312	(D)	417	152
Textiles, apparel, and leather	313-16	334	266	255
Wood products	321	70	105	181
Paper, printing and support activities	322, 323	2,474	2,700	2,664
Petroleum and coal products	324	(D)	1,172	1,057
Chemicals	325	20,051	20,768	17,713
Basic chemicals	3251	2,648	2,050	1,835
Resin, synthetic rubber, fibers, and filament	3252	2,216	2,842	2,745
Pharmaceuticals and medicines	3254	12,236	12,793	10,137
Other chemicals	325 minus (3251-52, 3254)	2,951	3,084	2,996
Plastics and rubber products	326	1,785	1,675	2,245
Nonmetallic mineral products	327	595	845	978
Primary metals	331	457	598	479
Fabricated metal products	332	1,608	1,631	1,545
Machinery	333	5,658	6,539	6,337
Computer and electronic products	334	29,939	39,553	41,232
Computers and peripheral equipment	3341	4,126	5,162	3,165
Communications equipment	3342	5,797	11,183	15,209
Semiconductor and other electronic components	3344	10,624	12,787	14,210
Navigational, measuring, electromedical, and control instruments	3345	8,632	10,114	7,565
Other computer and electronic products	334 minus (3341-42, 3344-45)	760	307	1,083
Electrical equipment, appliances, and components	335	3,820	3,390	4,680
Transportation equipment	336	23,928	22,917	21,004
Motor vehicles, trailers, and parts	3361-63	17,987	18,306	16,089
Aerospace products and parts	3364	5,309	3,895	4,083
Other transportation equipment	336 minus (3361-64)	632	716	832 (S)
Furniture and related products	337	248	284	301
Miscellaneous manufacturing	339	3,825	4,195	6,581
Medical equipment and supplies	3391	3,251	3,741	5,903
Other miscellaneous manufacturing	339 minus (3391)	574	453	678
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)	--	--	--

See explanatory information and SOURCE at end of table.

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Distribution by industry:				
Nonmanufacturing	21-23, 42, 44-81	60,311	69,671	72,384
Mining, extraction, and support activities	21	2,352	822	846
Utilities	22	126	136	114
Construction	23	690	222	320
Trade	42, 44, 45	19,521	24,929	24,284
Transportation and warehousing.	48, 49	460	277	1,776
Information	51	14,892	16,290	17,259
Publishing	511	11,253	12,926	13,716
Newspaper, periodical, book, and database	5111	371	365	649
Software	5112	10,882	12,561	13,067
Broadcasting and telecommunications	513	1,393	1,025	1,270
Radio and television broadcasting	5131	(D)	(D)	(D)
Telecommunications	5133	(D)	(D)	1,101
Other broadcasting and telecommunications	513 minus (5131, 5133)	18	59	(D)
Other information	51 minus (511, 513)	2,246	2,339	2,273
Finance, insurance, and real estate	52, 53	1,570	4,024	2,424
Professional, scientific, and technical services	54	14,379	17,949	22,640
Architectural, engineering, and related services	5413	2,402	2,232	2,365
Computer systems design and related services	5415	3,989	4,943	8,656
Scientific R&D services	5417	7,413	9,715	10,893
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	575	1,059	726
Management of companies and enterprises	55	72	49	381
Health care services	621-23	631	477	1,120
Other nonmanufacturing	56, 61, 624, 71, 72, 81	640	713	1,221

See explanatory information and SOURCE at end of table.

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Industry and size of company		1999 ¹	2000	2001
		[In millions of dollars]		
Distribution by size of company: [Number of employees]				
Total		160,176	180,421	181,606
5 to 24		6,393	5,940	4,175
25 to 49		4,382	4,786	3,548
50 to 99		6,623	6,745	7,654
100 to 249		6,540	8,351	12,012
250 to 499		7,407	6,819	8,143
500 to 999		6,441	8,580	9,936
1,000 to 4,999		23,944	29,860	26,140
5,000 to 9,999		14,182	15,143	15,836
10,000 to 24,999		24,525	27,976	26,161
25,000 or more		59,740	66,221	68,001

¹ Some statistics for 1999 have been revised since originally published.

KEY: (D) = Data have been withheld to avoid disclosing operations of individual companies.
(S) = Indicates imputation of more than 50 percent.
(-) = Indicates data not collected.

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 D.C. (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations).

For 1999, 2000, and 2001, the frame from which the statistical samples were selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, in prior reports detailed industry statistics were published only from the large company partition; detailed industry statistics from the small company partition were not. Statistics from the small company partition were included in the manufacturing, nonmanufacturing and all industries totals, but were aggregated into "small manufacturing" and "small nonmanufacturing" classifications instead of being included in their respective industry classifications. For this report, this practice was evaluated and discontinued because it was determined that the data for small companies are more useful if they are included in their respective industries even given the sampling concerns described above. Consequently, the "small manufacturing" and "small nonmanufacturing" stublines are no longer present. For 1999 and 2000, statistics previously published for the firms in the small company classifications are not shown separately in this table, but are included in the manufacturing, nonmanufacturing, and all industries totals. For more information, see the technical notes in Survey of Industrial Research and Development Methodology: 2001 at <http://www.nsf.gov/sbe/srs/sird/start.htm>.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2001