

Table A-10. Company and other non-Federal funds for industrial R&D performance in the U.S. performed by outside organizations and number of R&D-performing companies that funded outside performance of R&D, by industry and size of company: 1999-2001

Industry and size of company	NAICS codes	1999 <sup>1</sup>		2000		2001	
		Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]
Distribution by industry:							
All industries	21-23, 31-33, 42, 44-81	4,243	9,240	3,832	14,785	2,939	8,723
Manufacturing	31-33	1,720	4,080	1,716	4,794	1,363	3,957
Food	311	82	13	39	25	53	59
Beverage and tobacco products	312	1	(D)	1	(D)	2	7
Textiles, apparel, and leather	313-16	73	5	16	5	6	2
Wood products	321	6	(D)	7	(D)	2	(D)
Paper, printing and support activities	322, 323	6	(D)	15	(D)	2	(D)
Petroleum and coal products	324	2	(D)	13	(D)	3	107
Chemicals	325	167	2,386	52	2,783	325	2,065
Basic Chemicals	3251	16	(D)	10	(D)	124	(D)
Resin, synthetic rubber, fibers, and filament	3252	4	(D)	2	(D)	4	(D)
Pharmaceuticals and medicines	3254	14	2,274	14	2,658	162	1,899
Other chemicals	325 minus (3251-52, 3254)	132	57	26	54	35	99
Plastics and rubber products	326	21	33	33	24	23	22
Nonmetallic mineral products	327	52	10	23	3	10	2
Primary metals	331		2	10	2	19	4
Fabricated metal products	332	49	10	105	21	46	10
Machinery	333	173	151	137	355	51	115
Computer and electronic products	334	104	101	181	168	530	565
Computers and peripheral equipment	3341	9	24	9	44	119	118
Communications equipment	3342	4	(D)	21	(D)	87	80
Semiconductor and other electronic components	3344	76	33	58	(D)	108	86
Navigational, measuring, electromedical, and control instruments	3345	15	12	87	31	210	278
Other computer and electronic products	334 minus (3341-42, 3344-45)	1	(D)	5	2	5	2
Electrical equipment, appliances, and components	335	42	(D)	50	84	81	60 (S)
Transportation equipment	336	64	812	31	771	62	708
Motor vehicles, trailers, and parts	3361-63	54	(D)	26	(D)	10	657
Aerospace products and parts	3364	4	80	3	(D)	50	(D)
Other transportation equipment	336 minus (3361-64)	5	(D)	2	(D)	2	(D)
Furniture and related products	337	13	1	1	(D)	4	2
Miscellaneous manufacturing	339	56	18	103	34	145	54

See explanatory information and SOURCE at end of table.

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Industry and size of company	NAICS codes	1999 <sup>1</sup>		2000		2001	
		Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]
Distribution by industry:							
Medical equipment and supplies	3391	25	8	44	27	110	50
Other miscellaneous manufacturing	339 minus (3391)	31	10	59	7	34	4
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)	--	--	--	--	--	--
Nonmanufacturing	21-23, 42, 44-81	2,523	5,160	2,116	9,991	1,576	4,766
Mining, extraction, and support activities	21	4	6	4	(D)	4	11
Utilities	22	39	227	34	286	26	93
Construction	23	1	(D)	2	(D)	63	(D)
Trade	42, 44, 45	479	1,805	613	6,713	429	1,887
Transportation and warehousing	48, 49	12	8	58	54	3	(D)
Information	51	165	504	225	597	237	577
Publishing	511	141	(D)	156	161	153	187
Newspaper, periodical, book, and database	5111	2	(D)	3	4	4	10
Software	5112	139	181	153	157	149	177
Broadcasting and telecommunications	513	10	(D)	4	(D)	4	171
Radio and television broadcasting	5131	0	0	0	0	0	0
Telecommunications	5133	3	(D)	4	(D)	4	171
Other broadcasting and telecommunications	513 minus (5131, 5133)	7	0	0	0	0	0
Other information	51 minus (511, 513)	15	69	66	(D)	81	218
Finance, insurance, and real estate	52, 53	66	328	38	765	27	241
Professional, scientific, and technical services	54	394	957	469	1,200	655	1,676
Architectural, engineering, and related services	5413	137	(D)	161	150	92	86
Computer systems design and related services	5415	79	51	84	119	114	233
Scientific R&D services	5417	174	832	164	907	441	1,310
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	4	(D)	60	24	8	46
Management of companies and enterprises	55	2	(D)	4	1	18	22
Health care services	621-23	3	(D)	56	12	6	(D)
Other nonmanufacturing	56, 61, 624, 71, 72, 81	108	6	4	2	107	245

See explanatory information and SOURCE at end of table.

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Industry and size of company	1999 <sup>1</sup>		2000		2001	
	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]
Distribution by size of company: [Number of employees]						
Total	4,243	9,240	3,832	14,785	2,939	8,723
5 to 24	1,938	1,214	1,469	494	735	311
25 to 49	760	233	803	705	562	265
50 to 99	543	319	530	433	551	489
100 to 249	423	292	259	295	532	1,080
250 to 499	196	148	229	237	131	260
500 to 999	85	94	186	111	158	248
1,000 to 4,999	167	1,168	223	6,347	150	1,104
5,000 to 9,999	61	1,087	64	986	47	1,021
10,000 to 24,999	38	1,557	37	2,535	34	1,702
25,000 or more	33	3,128	32	2,642	39	2,242

<sup>1</sup> 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 outside 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 is 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