

Table A-8. Company and other non-Federal funds for industrial R&D performance in the U.S., by industry, by size of company: 2001

Industry	NAICS codes	Total	Size of company [number of employees]									
			5 to	25 to	50 to	100 to	250 to	500 to	1,000 to	5,000 to	10,000 to	25,000
			24	49	99	249	499	999	4,999	9,999	24,999	or more
[In millions of dollars]												
Distribution by industry:												
All industries	21-23, 31-33, 42, 44-81	181,606	4,175	3,548	7,654	12,012	8,143	9,936	26,140	15,836	26,161	68,001
Manufacturing	31-33	109,221	864	1,110	3,820	4,730	3,328	5,126	15,722	10,240	14,762	49,520
Food	311	1,818	4	28	40	18	57	128	281	54	345	863
Beverage and tobacco products	312	152	0	0	0	0	0	0	37	(D)	(D)	0
Textiles, apparel, and leather	313-16	255	26	(D)	6	2	26	19	123	(D)	51	0
Wood products	321	181	56	0	4	1	(D)	(D)	24	28	(D)	0
Paper, printing and support activities	322, 323	2,664	2	(D)	35	12	(D)	(D)	80	93	377	1,990
Petroleum and coal products	324	1,057	0	0	0	0	6	5	7	85	2	952
Chemicals	325	17,713	205	427	497	134	146	588	2,623	2,649	4,618	5,825
Basic chemicals	3251	1,835	24	28	142	77	36	221	692	335	280	0
Resin, synthetic rubber, fibers, and filament	3252	2,745	0	0	161	(D)	(D)	105	198	344	(D)	(D)
Pharmaceuticals and medicines	3254	10,137	2	392	115	(D)	(D)	177	983	1,055	3,588	3,780
Other chemicals	325 minus (3251-52, 3254)	2,996	179	7	79	30	83	85	749	915	(D)	(D)
Plastics and rubber products	326	2,245	1	0	25	73	967	228	345	(D)	126	(D)
Nonmetallic mineral products	327	978	12	28	0	28	515	15	130	59 (S)	190	0
Primary metals	331	479	28	8	3	11	9	38	105	(D)	44	(D)
Fabricated metal products	332	1,545	66	0	51	92	53	108	206	(D)	236	(D)
Machinery	333	6,337	76	68	221	194	250	549	1,489	637	1,658	1,195
Computer and electronic products	334	41,232	223	347	2,807	2,330	814	2,698	7,652	4,764	4,318	15,279
Computers and peripheral equipment	3341	3,165	30	(D)	47	275	163	346	235	(D)	472	0
Communications equipment	3342	15,209	82	0	1,419	694	281	1,462	1,131	1,205	(D)	(D)
Semiconductor and other electronic components	3344	14,210	0	(D)	784	212	184	354	4,722	(D)	2,323	4,357
Navigational, measuring, electromedical, and control instruments	3345	7,565	111	83	534	365	143	494	1,433	891	1,209	2,301
Other computer and electronic products	334 minus (3341-42, 3344-45)	1,083	0	0	23	784	43	42	(D)	(D)	(D)	(D)
Electrical equipment, appliances, and components	335	4,680	4	96	35	1,513	(D)	203	432	176	728	(D)
Transportation equipment	336	21,004	42	0	41	4	180	375	625	565	1,040	18,133
Motor vehicles, trailers, and parts	3361-63	16,089	41	0	26	0	102	293	481	(D)	383	(D)
Aerospace products and parts	3364	4,083	0	0	15	4	0	(D)	58	132	(D)	3,560
Other transportation equipment	336 minus (3361-64)	832 (S)	1	0	0	0	77	(D)	86	(D)	(D)	(D)

See explanatory information and SOURCE at end of table.

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[In millions of dollars]												
Distribution by industry:												
Furniture and related products	337	301	0	0	1	14	22	(D)	46	83 (S)	83	(D)
Miscellaneous manufacturing	339	6,581	120	91	54	302	194	140	1,516	(D)	861	(D)
Medical equipment and supplies	3391	5,903	103	85	21	239	162	104	1,226	635	(D)	(D)
Other miscellaneous manufacturing	339 minus (3391)	678	17	6	33	64	32	36	290	(D)	(D)	(D)
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)	--	--	--	--	--	--	--	--	--	--	--
Nonmanufacturing	21-23, 42, 44-81	72,384	3,311	2,439	3,833	7,282	4,815	4,810	10,418	5,596	11,399	18,481
Mining, extraction, and support activities	21	846	0	4	0	0	(D)	13	54	95	(D)	(D)
Utilities	22	114	0	0	0	0	0	(D)	28	38	32	(D)
Construction	23	320	81	2	0	4	91 (S)	(D)	19	(D)	108	0
Trade	42, 44, 45	24,284	209	52	196	717	236	512	2,713	3,632	6,307	9,711
Transportation and warehousing	48, 49	1,776	1,377	2	0	0	0	(D)	25	0	(D)	363
Information	51	17,259	207	325	515	802	(D)	1,252	3,926	(D)	2,304	6,616
Publishing	511	13,716	206	263	427	664	888	989	3,617	(D)	(D)	(D)
Newspaper, periodical, book, and database	5111	649	24	58	1	0	(D)	0	377	0	36	(D)
Software	5112	13,067	182	206	427	664	(D)	989	3,240	(D)	(D)	(D)
Broadcasting and telecommunications	513	1,270	2	0	0	0	(D)	115	168	0	(D)	892
Radio and television broadcasting	5131	(D)	0	0	0	0	0	0	(D)	0	24	0
Telecommunications	5133	1,101	2	0	0	0	(D)	115	(D)	0	(D)	892
Other broadcasting and telecommunications	513 minus (5131, 5133)	(D)	0	0	0	0	(D)	0	0	0	0	0
Other information	51 minus (511, 513)	2,273	0	62	88	138	171	148	141	(D)	392	(D)
Finance, insurance, and real estate	52, 53	2,424	12	0	0	55	622	18	391	100	573	654
Professional, scientific, and technical services	54	22,640	976	1,968	2,539	5,199	2,703	2,883	2,974	(D)	(D)	632 (S)
Architectural, engineering, and related services	5413	2,365	189	199	431	284	117	(D)	902	40	(D)	(D)
Computer systems design and related services	5415	8,656	308	623	1,022	1,788	783	825	1,251	449	(D)	(D)
Scientific R&D services	5417	10,893	381	973	1,084	2,986	1,772	1,787	789	(D)	0	(D)
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	726	99	173	2	142	30 (S)	(D)	32	59	(D)	(D)

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[In millions of dollars]												
Distribution by industry:												
Management of companies and enterprises	55	381	60	(D)	138	(D)	0	74	(D)	0	0	0
Health care services	621-23	1,120	315	(D)	444	3	17	36	(D)	(D)	(D)	(D)
Other nonmanufacturing	56, 61, 624, 71, 72, 81	1,221	75	71	1	(D)	44	7	174	(D)	39 (S)	280

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).

Starting in 1999, 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. Statistics 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