

TABLE 29. 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, ranked by size of nonfederally funded R&D program: 2002

Industry and size of company	NAICS codes	Company and other nonfederal R&D funds			Company and other nonfederal R&D funds as a percent of net sales		
		First 4 companies	Next 4 companies	Next 12 companies	First 4 companies	Next 4 companies	Next 12 companies
		Millions of dollars			Percent		
Distribution by industry:							
All industries	21-23, 31-33, 42, 44-81	18,251	12,009	20,772	11.4	5.7	6.5
Manufacturing	31-33	15,509	8,323	14,903	5.7	3.8	7.1
Food	311	971	305	357	1.3	0.8	0.4
Beverage and tobacco products	312	124	33	4	0.5	0.8	0.2
Textiles, apparel, and leather	313-16	67	37 (S)	59	0.9	1.3	1.4
Wood products	321	98	11	11	1.3	0.3	0.2
Paper, printing and support activities	322, 323	2,106	187	176	3.6	0.8	0.2
Petroleum and coal products	324	1,092	124	10	0.5	0.1	0.5
Chemicals	325	6,387	4,242	4,591	8.9	10.4	8.8
Basic chemicals	3251	449	285	482	2.5	5.4	2.8
Resin, synthetic rubber, fibers, and filament	3252	1,961	268	138	5.6	2.9	1.2
Pharmaceuticals and medicines	3254	6,387	3,905	2,566	8.9	12.1	10.0
Other chemicals	325 minus (3251-52, 3254)	1,067	236 (S)	316	5.6	2.7	1.9
Plastics and rubber products	326	553	148	251	3.4	1.8	2.4
Nonmetallic mineral products	327	197	82	84	1.6	1.9	1.2
Primary metals	331	267	57	81	1.2	0.4	0.4
Fabricated metal products	332	422	145	203	2.3	3.2	1.0
Machinery	333	2,051	734	1,032	9.5	6.4	3.3
Computer and electronic products	334	8,630	3,236	5,481	12.5	9.7	6.9
Computers and peripheral equipment	3341	1,783	414	335	5.7	22.1	12.9
Communications equipment	3342	4,046	515	702	15.9	16.3	6.2
Semiconductor and other electronic components	3344	5,789	1,696 (S)	1,927	14.5	6.9	23.2
Navigational, measuring, electromedical, and control instruments	3345	3,530	1,513	1,601	7.6	7.8	7.9
Other computer and electronic products	334 minus (3341-42, 3344-45)	307	68	47	5.3	11.0	5.6
Electrical equipment, appliances, and components	335	560	287	357	2.6	4.0	2.5
Transportation equipment	336	13,266	3,770	2,352	3.2	3.3	3.1
Motor vehicles, trailers, and parts	3361-63	12,843	836	758	3.8	3.1	1.2
Aerospace products and parts	3364	4,193	813	279	2.2	2.5	2.9
Other transportation equipment	336 minus (3361-64)	673	127	68	4.3	1.8	1.2
Furniture and related products	337	113	48	33	0.9	0.8	0.9
Miscellaneous manufacturing	339	4,187	694	779	12.9	9.8	5.4
Medical equipment and supplies	3391	4,187	666	470	12.9	12.2	6.6
Other miscellaneous manufacturing	339 minus (3391)	375	197	156	4.2	5.4	3.1
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)	--	--	--	--	--	--
Nonmanufacturing	21-23, 42, 44-81	14,751	6,022	7,900	14.4	26.7	12.7
Mining, extraction, and support activities	21	625	45	40	4.7	0.8	1.2
Utilities	22	43	18 (S)	25	0.1	0.1	-
Construction	23	115	16	13	1.1	0.9	0.1
Trade	42, 44, 45	11,240	3,104	3,625	11.3	12.4	15.6
Transportation and warehousing	48, 49	263	14	4	0.6	0.1	-
Information	51	7,372	1,185	2,154	19.1	1.8	3.2

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Industry and size of company	NAICS codes	Company and other nonfederal R&D funds			Company and other nonfederal R&D funds as a percent of net sales		
		First 4	Next 4	Next 12	First 4	Next 4	Next 12
		companies	companies	companies	companies	companies	companies
		Millions of dollars			Percent		
Distribution by industry:							
Publishing	511	6,537	988	1,882	23.9	22.2	12.4
Newspaper, periodical, book, and database	5111	512	60	28	4.1	3.1	0.4
Software	5112	6,537	988	1,758	23.9	22.2	23.4
Broadcasting and telecommunications	513	614 (S)	134 (S)	108	0.4	0.4	0.3
Radio and television broadcasting	5131	(z)	-	-	0.1	-	-
Telecommunications	5133	614 (S)	(D)	90	0.4	0.4	0.3
Other broadcasting and telecommunications	513 minus (5131, 5133)	20 (S)	(D)	-	7.0	0.3	-
Other information	51 minus (511, 513)	1,460	228	258	9.9	0.9	6.6
Finance, insurance, and real estate	52, 53	610	253	334	1.0	0.6	0.5
Professional, scientific, and technical services	54	5,254	1,124	1,871	37.2	37.3	19.3
Architectural, engineering, and related services	5413	696	231	331	25.2	32.0	2.6
Computer systems design and related services	5415	4,278	526	969	49.8	6.6	7.9
Scientific R&D services	5417	1,910 (S)	695	1,244	23.5	49.3	134.9
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	335	117 (S)	76	3.8	12.2	0.9
Management of companies and enterprises	55	96	10	(z)	10.3	7.8	0.3
Health care services	621-23	385	43 (S)	37	4.7	0.9	0.8
Other nonmanufacturing	56, 61, 624, 71, 72, 81	284	101	140	2.9	2.3	2.7
Distribution by size of company (number of employees):							
Total	(na)	18,251	12,009	20,772	11.4	5.7	6.5
5 to 24	(na)	60	22 (S)	46	431.2	117.8	10.3
25 to 49	(na)	90	54	122 (S)	102.4	158.1	199.1
50 to 99	(na)	132	96	209	280.4	403.1	123.0
100 to 249	(na)	330	265	603	471.8	122.5	178.0
250 to 499	(na)	536	321	719	211.1	84.6	17.2
500 to 999	(na)	769	584	1,064	115.9	79.3	34.2
1,000 to 4,999	(na)	2,154	1,495	3,255	29.6	39.3	27.3
5,000 to 9,999	(na)	3,725	2,284	4,327	26.1	21.3	11.8
10,000 to 24,999	(na)	7,961	3,916	5,885	18.8	13.3	6.6
25,000 or more	(na)	17,975	11,613	17,770	11.4	5.3	4.8

(D) = data have been withheld to avoid disclosing operations of individual companies; (S) = indicates imputation of more than 50 percent; (z) = indicates data less than half the unit shown; (-) = indicates data not collected; (-) = indicates a value of zero or a value rounded to zero; (na) = not applicable.

NOTES: Rankings were based on company and other nonfederal funds for industrial R&D performance.

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 2002, see appendix A, Technical Notes.

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