

TABLE 15. Company and other nonfederal funds for industrial R&D performance in the United States performed by outside organizations and number of R&D-performing companies that funded outside performance of company-funded R&D, by industry and size of company: 2001–2002

Industry and size of company	NAICS codes	2001		2002		Percent change 2002/2001
		Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)	
Distribution by industry:						
All industries	21–23, 31–33, 42, 44–81	2,939	8,723	3,097	7,846	-10
Manufacturing	31–33	1,363	3,957	1,676	4,428	12
Food	311	53	59	61	105	78
Beverage and tobacco products	312	2	(D)	2	(D)	(na)
Textiles, apparel, and leather	313–16	6	2	42	9	350
Wood products	321	2	(D)	16	12	(na)
Paper, printing and support activities	322, 323	2	(D)	26	248	(na)
Petroleum and coal products	324	3	107	3	(D)	(na)
Chemicals	325	325	2,065	188	2,485	20
Basic Chemicals	3251	124	(D)	26	30	(na)
Resin, synthetic rubber, fibers, and filament	3252	4	(D)	14	38	(na)
Pharmaceuticals and medicines	3254	162	1,899	79	2,368	25
Other chemicals	325 minus (3251–52, 3254)	35	99	70	49	-51
Plastics and rubber products	326	23	22	142	28	27
Nonmetallic mineral products	327	10	2	16	2	0
Primary metals	331	19	4	44	4	0
Fabricated metal products	332	46	10	145	12	20
Machinery	333	51	115	146	134	17
Computer and electronic products	334	530	565	433	411	-27
Computers and peripheral equipment	3341	119	118	58	83	-30
Communications equipment	3342	87	80	136	19	-76
Semiconductor and other electronic components	3344	108	86	82	41	-52
Navigational, measuring, electromedical, and control instruments	3345	210	278	140	264	-5
Other computer and electronic products	334 minus (3341–42, 3344–45)	5	2	17	5	150
Electrical equipment, appliances, and components	335	81	60 (S)	125	35	-42
Transportation equipment	336	62	708	114	799	13
Motor vehicles, trailers, and parts	3361–63	10	657	68	617	-6
Aerospace products and parts	3364	50	(D)	18	178	(na)
Other transportation equipment	336 minus (3361–64)	2	(D)	29	5	(na)
Furniture and related products	337	4	2	11	3	50
Miscellaneous manufacturing	339	145	54	162	79	46
Medical equipment and supplies	3391	110	50	96	70	40
Other miscellaneous manufacturing	339 minus (3391)	34	4	66	8	100
Other manufacturing	31–33 minus (311–16, 321–27, 331–37, 339)	--	--	--	--	(na)
Nonmanufacturing	21–23, 42, 44–81	1,576	4,766	1,422	3,418	-28
Mining, extraction, and support activities	21	4	11	5	71	545
Utilities	22	26	93	24	110	18
Construction	23	63	(D)	3	(D)	(na)
Trade	42, 44, 45	429	1,887	173	1,301	-31

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		Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)	
Distribution by industry:						
Transportation and warehousing	48, 49	3	(D)	4	32	(na)
Information	51	237	577	275	363	-37
Publishing	511	153	187	146	113	-40
Newspaper, periodical, book, and database	5111	4	10	37	11	10
Software	5112	149	177	109	102	-42
Broadcasting and telecommunications	513	4	171	64	122 (S)	-29
Radio and television broadcasting	5131	0	-	0	-	(na)
Telecommunications	5133	4	171	63	(D)	(na)
Other broadcasting and telecommunications	513 minus (5131, 5133)	0	-	1	(D)	(na)
Other information	51 minus (511, 513)	81	218	65	129	-41
Finance, insurance, and real estate	52, 53	27	241	15	400	66
Professional, scientific, and technical services	54	655	1,676	611	1,113	-34
Architectural, engineering, and related services	5413	92	86	131	69	-20
Computer systems design and related services	5415	114	233	143	86	-63
Scientific R&D services	5417	441	1,310	328	890	-32
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	8	46	10	68	48
Distribution by industry:						
Management of companies and enterprises	55	18	22	2	(D)	(na)
Health care services	621–23	6	8	6	11	38
Other nonmanufacturing	56, 61, 624, 71, 72, 81	107	245	302	17	-93
Distribution by size of company (number of employees):						
Total	(na)	2,939	8,723	3,097	7,846	-10
5 to 24	(na)	735	311	675	133	-57
25 to 49	(na)	562	265	469	130	-51
50 to 99	(na)	551	489	719	326	-33
100 to 249	(na)	532	1,080	540	555	-49
250 to 499	(na)	131	260	234	229	-12
500 to 999	(na)	158	248	139	262	6
1,000 to 4,999	(na)	150	1,104	165	1,212	10
5,000 to 9,999	(na)	47	1,021	59	832	-19
10,000 to 24,999	(na)	34	1,702	50	1,539	-10
25,000 or more	(na)	39	2,242	47	2,626	17

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

NOTE: 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 DC. (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations). For information on sampling for 1999–2002, see appendix A, Technical Notes.

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