

TABLE 16. Company and other nonfederal funds for industrial R&D performance in the United States by outside organizations and number of R&D-performing companies that funded outside performance of R&D, by type of organization and by industry and size of company: 2002

Industry and size of company	NAICS codes	Number of companies	Company-funded	For-profit companies		Universities or colleges		Nonprofit organizations (other than universities and colleges)		Undistributed R&D performed by outside organizations	
			R&D performed by outside organizations (millions of dollars)	Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)	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	3,097	7,846	319	4,850	134	331	47	109	2,746	2,556
Manufacturing	31-33	1,676	4,428	154	3,122	74	237	22	53	1,500	1,016
Food	311	61	105	9	67	4	31	2	(D)	52	(D)
Beverage and tobacco products	312	2	(D)	2	(D)	2	(D)	1	(D)	0	-
Textiles, apparel, and leather	313-16	42	9	5	2	2	(D)	0	-	37	(D)
Wood products	321	16	12	2	(D)	1	(D)	0	-	14	2
Paper, printing and support activities	322, 323	26	248	4	(D)	4	1	1	(D)	20	123
Petroleum and coal products	324	3	(D)	3	(D)	3	(D)	1	(D)	0	-
Chemicals	325	188	2,485	25	1,693	20	182	6	45	156	566
Basic chemicals	3251	26	30	6	12	5	1	0	-	18	17
Resin, synthetic rubber, fibers, and filament	3252	14	38	2	(D)	2	(D)	0	-	10	26
Pharmaceuticals and medicines	3254	79	2,368	13	1,676	11	171	6	45	65	475
Other chemicals	325 minus (3251-52, 3254)	70	49	4	(D)	2	(D)	0	-	64	47
Plastics and rubber products	326	142	28	5	3	1	(D)	0	-	137	(D)
Nonmetallic mineral products	327	16	2	1	(D)	1	(D)	0	-	14	1
Primary metals	331	44	4	0	-	1	(D)	1	(D)	43	(D)
Fabricated metal products	332	145	12	7	2	2	(D)	1	(D)	137	(D)
Machinery	333	146	134	11	83	6	4	1	(D)	134	(D)
Computer and electronic products	334	433	411	38	268	10	5	4	3	390	136
Computers and peripheral equipment	3341	58	83	5	38	1	(D)	1	(D)	53	(D)
Communications equipment	3342	136	19	7	5	0	-	1	(D)	128	(D)
Semiconductor and other electronic components	3344	82	41	7	(D)	4	2	1	(D)	72	11
Navigational, measuring, electromedical, and control instruments	3345	140	264	17	195	4	(D)	1	(D)	122	66
Other computer and electronic products	334 minus (3341-42, 3344-45)	17	5	2	(D)	1	(D)	0	-	15	1
Electrical equipment, appliances, and components	335	125	35	11	10	1	(D)	0	-	114	(D)
Transportation equipment	336	114	799	20	(D)	9	(D)	2	(D)	91	24
Motor vehicles, trailers, and parts	3361-63	68	617	13	605	7	1	0	-	53	11
Aerospace products and parts	3364	18	178	5	165	2	(D)	2	(D)	12	(D)
Other transportation equipment	336 minus (3361-64)	29	5	2	(D)	0	-	0	-	27	(D)
Furniture and related products	337	11	3	0	-	0	-	0	-	11	3
Miscellaneous manufacturing	339	162	79	11	32	7	(D)	2	(D)	150	40

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			R&D performed by outside organizations (millions of dollars)	Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)	
Distribution by industry:												
Medical equipment and supplies	3391	96	70	7	29	6	(D)	2	(D)	88	34	
Other miscellaneous manufacturing	339 minus (3391)	66	8	4	3	1	(D)	0	(D)	62	6	
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)	--	--	--	--	--	--	--	--	--	--	
Nonmanufacturing	21-23, 42, 44-81	1,422	3,418	165	1,728	60	94	25	57	1,247	1,540	
Mining, extraction, and support activities	21	5	71	3	(D)	0	-	0	-	2	(D)	
Utilities	22	24	110	5	6	3	1	6	37	17	67	
Construction	23	3	(D)	0	-	0	-	0	-	3	(D)	
Trade	42, 44, 45	173	1,301	19	539	7	(D)	3	(D)	151	736	
Transportation and warehousing	48, 49	4	(D)	1	(D)	0	-	0	-	3	31	
Information	51	275	363	26	146	2	(D)	0	-	249	(D)	
Publishing	511	146	113	20	(D)	1	(D)	0	-	126	(D)	
Newspaper, periodical, book, and database	5111	37	11	2	(D)	0	-	0	-	35	(D)	
Software	5112	109	102	18	36	1	(D)	0	-	91	(D)	
Broadcasting and telecommunications	513	64	122 (S)	1	(D)	0	-	0	-	63	(D)	
Radio and television broadcasting	5131	0	-	0	-	0	-	0	-	0	-	
Telecommunications	5133	63	(D)	1	(D)	0	-	0	-	62	113	
Other broadcasting and telecommunications	513 minus (5131, 5133)	1	(D)	0	-	0	-	0	-	1	(D)	
Other information	51 minus (511, 513)	65	129	5	98	1	(D)	0	-	60	(D)	
Finance, insurance, and real estate	52, 53	15	400	10	294	0	-	0	-	5	106	
Professional, scientific, and technical services	54	611	1,113	96	(D)	46	63	15	(D)	510	356	
Architectural, engineering, and related services	5413	131	69	8	21	2	(D)	1	(D)	123	44	
Computer systems design and related services	5415	143	86	16	35	0	-	0	-	128	50	
Scientific R&D services	5417	328	890	67	584	42	47	14	11	255	248	
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	10	68	5	(D)	2	(D)	0	-	5	15	
Management of companies and enterprises	55	2	(D)	0	-	0	-	0	-	2	(D)	
Health care services	621-23	6	11	2	(D)	1	(D)	1	(D)	4	3	
Other nonmanufacturing	56, 61, 624, 71, 72, 81	302	17	3	(D)	1	(D)	0	-	299	12	

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				Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)	Number of companies	Amount (millions of dollars)
Distribution by size of company (number of employees):											
Total	(na)	3097	7,846	319	4,850	134	331	47	109	2,746	2,556
5 to 24	(na)	675	133	7	12	3	1	0	-	668	121
25 to 49	(na)	469	130	13	34	4	1	1	(D)	455	(D)
50 to 99	(na)	719	326	26	107	14	8	6	1	690	211
100 to 249	(na)	540	555	46	320	23	21	7	6	490	209
250 to 499	(na)	234	229	34	112	12	18	3	(D)	197	(D)
500 to 999	(na)	139	262	41	159	6	4	1	(D)	97	(D)
1,000 to 4,999	(na)	165	1,212	66	774	30	44	7	4	87	391
5,000 to 9,999	(na)	59	832	23	659	12	39	4	8	33	125
10,000 to 24,999	(na)	50	1,539	30	466	14	75	9	44	15	954
25,000 or more	(na)	47	2,626	33	2,207	16	121	9	40	14	258

(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.

NOTES: The R&D in this table is the industrial R&D performed outside company facilities by outside organizations 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.