

TABLE 17. Company and other nonfederal funds and number of companies that funded industrial R&D performed outside of the United States by majority-owned foreign affiliates and other organizations, by industry and size of company: 1999–2002

Industry, size of company, and affiliation of performing organizations	NAICS codes	1999 <sup>a</sup>		2000		2001		2002		Percent change 2002/2001
		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)	
All foreign R&D:										
All industries	21–23, 31–33, 42, 44–81	1,261	16,765	1,718	17,463	2,407	17,869	1,404	24,868	39
Manufacturing	31–33	747	12,354	572	12,252	593	10,998	828	17,093	55
Food	311	9	87	16	95 (S)	21	210	53	300	43
Beverage and tobacco products	312	1	(D)	1	(D)	0	-	1	(D)	(na)
Textiles, apparel, and leather	313–16	7	(D)	15	(D)	8	26	6	25	-4
Wood products	321	1	(D)	0	-	2	(D)	4	(D)	(na)
Paper, printing and support activities	322, 323	11	(D)	9	(D)	8	(D)	15	544	(na)
Petroleum and coal products	324	3	(D)	3	9	2	(D)	3	16	(na)
Chemicals	325	105	3,243	94	3,578	60	2,328	116	3,989	71
Basic chemicals	3251	15	(D)	40	256	15	152	24	249	64
Resin, synthetic rubber, fibers, and filament	3252	7	(D)	4	(D)	6	(D)	20	366	(na)
Pharmaceuticals and medicines	3254	64	2,832	20	3,030	19	1,720	39	3,268	90
Other chemicals	325 minus (3251–52, 3254)	18	95	30	(D)	20	(D)	33	107	(na)
Plastics and rubber products	326	42	172	23	168	37	181	28	218	20
Nonmetallic mineral products	327	5	40	14	40	8	15	16	32	113
Primary metals	331	5	7	3	(D)	15	12	19	23	92
Fabricated metal products	332	42	75	32	65	20	61	44	371	508
Machinery	333	70	707	86	736	66	527	111	788	50
Computer and electronic products	334	177	1,902	178	1,705	219	2,562	259	3,763	47
Computers and peripheral equipment	3341	12	289	25	(D)	16	478 (S)	31	383 (S)	-20
Communications equipment	3342	22	(D)	33	377	55	633	41	969	53
Semiconductor and other electronic components	3344	98	302	34	327	86	852	75	1,647	93
Navigational, measuring, electromedical, and control instruments	3345	42	1,112	85	679	59	586	102	756	29
Other computer and electronic products	334 minus (3341–42, 3344–45)	2	(D)	1	(D)	3	12	10	7	-42
Electrical equipment, appliances, and components	335	33	433	20	455	23	418 (S)	33	279	-33
Transportation equipment	336	90	3,933	27	3,640	22	2,832	49	5,160	82

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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)	
Motor vehicles, trailers, and parts	3361–63	64	(D)	21	(D)	15	(D)	33	4,598	(na)
Aerospace products and parts	3364	6	(D)	3	(D)	4	138	8	552	300
Other transportation equipment	336 minus (3361–64)	20	17	3	(D)	3	(D)	8	10	(na)
Furniture and related products	337	2	(D)	5	(D)	1	(D)	7	(z)	(na)
Miscellaneous manufacturing	339	47	963	47	942	83	1,226	65	1,578	29
Medical equipment and supplies	3391	38	(D)	26	(D)	67	1,150	48	1,472	28
Other miscellaneous manufacturing	339 minus (3391)	8	(D)	21	(D)	16	76	16	106	39
Other manufacturing	31–33 minus (311–16, 321–27, 331–37, 339)	--	--	--	--	--	--	--	--	(na)
Nonmanufacturing	21–23, 42, 44–81	513	4,411	1,146	5,211	1,814	6,871	575	7,775	13
Mining, extraction, and support activities	21	52	48	6	43	7	37	5	48	30
Utilities	22	0	-	0	-	0	-	2	(D)	(na)
Construction	23	1	(D)	1	(D)	2	(D)	1	(D)	(na)
Trade	42, 44, 45	93	2,356	345	2,244	447	4,192	109	4,753	13
Transportation and warehousing	48, 49	0	-	0	-	0	-	0	-	(na)
Information	51	108	1,379	135	1,564	345	1,672	165	1,806	8
Publishing	511	101	637	118	940	336	983	146	(D)	(na)
Newspaper, periodical, book, and database	5111	0	-	2	(D)	5	8	6	(D)	(na)
Software	5112	101	637	116	(D)	331	975	140	1,058	9
Broadcasting and telecommunications	513	1	(D)	1	(D)	1	(D)	1	(D)	(na)
Radio and television broadcasting	5131	0	-	0	-	0	-	0	-	(na)
Telecommunications	5133	1	(D)	1	(D)	1	(D)	1	(D)	(na)
Other broadcasting and telecommunications	513 minus (5131, 5133)	0	-	0	-	0	-	0	-	(na)
Other information	51 minus (511, 513)	6	(D)	16	(D)	8	(D)	18	(D)	(na)
Finance, insurance, and real estate	52, 53	3	(D)	4	(D)	6	24	13	113	371
Professional, scientific, and technical services	54	196	523	236	904	943	881	270	964	9

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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)	
Architectural, engineering, and related services	5413	47	(D)	54	371	193	78	14	(D)	(na)
Computer systems design and related services	5415	67	146	101	(D)	149	302	144	600	99
Scientific R&D services	5417	81	287	80	292	592	488	110	297	-39
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	1	(D)	1	(D)	9	12	3	(D)	(na)
Management of companies and enterprises	55	2	(D)	5	(D)	2	(D)	2	(D)	(na)
Health care services	621–23	2	(D)	1	(D)	2	(D)	1	(D)	(na)
Other nonmanufacturing	56, 61, 624, 71, 72, 81	55	14	7	75 (S)	60	43	7	65	51
Distribution by size of company (number of employees):										
Total	(na)	1,261	16,765	1,718	17,463	2,407	17,869	1,404	24,868	39
5 to 24	(na)	46	1	484	352	1,050	96	156	35	-64
25 to 49	(na)	51	14	86	37	269	21	120	60	186
50 to 99	(na)	231	117	188	455	301	228	203	267	17
100 to 249	(na)	264	140	246	421	149	223	152	262	17
250 to 499	(na)	144	243	132	162	93	207	143	289	40
500 to 999	(na)	156	860	188	532	134	647	152	484	-25
1,000 to 4,999	(na)	204	2,099	228	2,238	251	2,104	292	2,955	40
5,000 to 9,999	(na)	81	1,188	74	1,352	74	2,073	71	2,652	28
10,000 to 24,999	(na)	48	2,965	49	3,626	44	3,329	59	4,168	25
25,000 or more	(na)	35	9,138	42	8,288	43	8,940	55	13,696	53
Foreign R&D performed by majority-owned foreign affiliates:										
All industries	21–23, 31–33, 42, 44–81	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1,076	23,974	(na)
Manufacturing	31–33	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	636	16,399	(na)
Nonmanufacturing	21–23, 42, 44–81	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	439	7,575	

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Distribution by size of company (number of employees):										
Total	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1,076	23,974	(na)
5 to 24	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	136	34	(na)
25 to 49	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	73	55	(na)
50 to 99	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	133	232	(na)
100 to 249	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	95	212	(na)
250 to 499	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	115	261	(na)
500 to 999	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	122	399	(na)
1,000 to 4,999	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	241	2,654	(na)
5,000 to 9,999	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	63	(D)	(na)
10,000 to 24,999	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	53	(D)	(na)
25,000 or more	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	45	13,592	(na)
Foreign R&D performed by other organizations other than majority-owned affiliates:										
All industries	21–23, 31–33, 42, 44–81	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	275	321	(na)
Manufacturing	31–33	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	132	219	(na)
Nonmanufacturing	21–23, 42, 44–81	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	143	102	
Total		(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	275	321	(na)
5 to 24	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	20	1	(na)
25 to 49	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	47	5	(na)
50 to 99	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	66	23	(na)
100 to 249	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	47	27	(na)
250 to 499	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	21	12	(na)
500 to 999	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	21	20	(na)
1,000 to 4,999	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	33	117	(na)
5,000 to 9,999	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	5	12	(na)
10,000 to 24,999	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	4	1	(na)
25,000 or more	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	10	104	(na)

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Undistributed foreign R&D										
All industries	21–23, 31–33, 42, 44–81	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	53	573 (S)	(na)
Manufacturing	31–33	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	30	475 (S)	(na)
Nonmanufacturing	21–23, 42, 44–81	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	23	98 (S)	(na)
Distribution by size of company (number of employees):										
Total	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	53	573 (S)	(na)
5 to 24	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	0	-	(na)
25 to 49	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	0	-	(na)
50 to 99	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	4	12 (S)	(na)
100 to 249	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	10	22 (S)	(na)
250 to 499	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	7	16 (S)	(na)
500 to 999	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	9	66 (S)	(na)
1,000 to 4,999	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	18	185 (S)	(na)
5,000 to 9,999	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	3	(D)	(na)
10,000 to 24,999	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2	(D)	(na)
25,000 or more	(na)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	0	-	(na)

(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 available; (na) = not applicable.

<sup>a</sup> Some statistics for 1999 have been revised since originally published.

NOTES: The R&D in this table is the industrial R&D performed outside the 50 U.S. states and DC by a company's foreign subsidiaries or other 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 performed within the 50 U.S. states or DC (e.g., R&D performed on U.S. soil by foreign subsidiaries or other 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.