

TABLE 13. Company and other nonfederal funds for industrial R&D performed in the United States in collaboration with other organizations, by industry and company size, by type of organization: 2006

(Amount in millions of dollars)

Industry and company size	NAICS codes	All company-funded R&D		All company-funded collaborative R&D		For-profit companies		Universities and colleges	
		Companies	Amount	Companies	Amount	Companies	Amount	Companies	Amount
All industries	21–23, 31–33, 42, 44–81	43,015	223,365	274	5,066	238	4,950	57	66
Manufacturing industries	31–33	18,324	155,230	147	3,065	128	3,019	32	33
Food	311	724	2,716	6	115	5	D	4	D
Beverage and tobacco products	312	39	547 i	1	D	1	D	1	D
Textiles, apparel, and leather	313–16	402	583	2	D	2	D	0	0
Wood products	321	244	192	0	0	0	0	0	0
Paper, printing, and support activities	322, 323	573	2,793	4	1	4	D	1	D
Petroleum and coal products	324	105	1,431	1	D	1	D	0	0
Chemicals	325	1,915	46,119	43	748	34	734	10	12
Basic chemicals	3251	269	2,054	10	108	7	D	3	D
Resin, synthetic rubber, fibers, and filament	3252	151	1,963	2	D	2	D	0	0
Pharmaceuticals and medicines	3254	480	38,813	27	608	22	601	6	D
Other chemicals	other 325	1,014	3,288	4	D	3	D	1	D
Plastics and rubber products	326	1,236	2,217	6	48	6	48	0	0
Nonmetallic mineral products	327	391	936	2	D	2	D	0	0
Primary metals	331	235	638	3	D	3	D	1	D
Fabricated metal products	332	2,393	1,432	3	1	3	D	0	0
Machinery	333	3,093	9,743	17	109	14	109	4	D
Computer and electronic products	334	2,747	48,251	29	1,181	28	1,175	4	3
Computers and peripheral equipment	3341	289	7,289	3	D	3	D	0	0
Communications equipment	3342	499	10,911	5	D	5	D	0	0
Semiconductor and other electronic components	3344	692	18,534	10	114	10	D	1	D
Navigational, measuring, electromedical, and control instruments	3345	1,092	10,440	11	D	10	D	3	D
Other computer and electronic products	other 334	176	1,076	0	0	0	0	0	0
Electrical equipment, appliances, and components	335	981	2,215	4	9	3	D	0	0
Transportation equipment	336	1,118	30,010	18	822 i	14	815 i	4	D
Motor vehicles, trailers, and parts	3361–63	777	16,562	14	D	12	D	3	D
Aerospace products and parts	3364	127	11,995	2	D	2	D	1	D
Other transportation equipment	other 336	214	1,453	2	D	0	0	0	0
Furniture and related products	337	420	371	0	0	0	0	0	0
Miscellaneous manufacturing	339	1,709	5,036	8	18	8	D	3	D
Medical equipment and supplies	3391	916	3,998	6	D	6	D	3	D
Other miscellaneous manufacturing	other 339	793	1,038	2	D	2	D	0	0

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		Companies	Amount	Companies	Amount	Companies	Amount	Companies	Amount
Nonmanufacturing industries	21–23, 42, 44–81	24,691	68,135	127	2,001	110	1,931	25	33
Mining, extraction, and support activities	21	142	1,123	3	D	3	D	3	D
Utilities	22	175	214	6	37	2	D	3	D
Construction	23	794	1,368	1	D	1	D	1	D
Wholesale trade	42	3,272	2,054	3	6	3	6	0	0
Retail trade	44, 45	576	1,372	3	D	3	D	1	D
Transportation and warehousing	48, 49	27	277	2	D	2	D	0	0
Information	51	3,125	26,748	13	543	13	543	0	0
Publishing	511	1,810	19,946	7	428	7	428	0	0
Newspaper, periodical, book, and directory	5111	235	992	0	0	0	0	0	0
Software	5112	1,575	18,953	7	428	7	428	0	0
Telecommunications	517	162	2,135	2	D	2	D	0	0
Wired and wireless (except satellite)									
telecommunications carriers	5171, 5172	63	1,688	2	D	2	D	0	0
Satellite telecommunications	5174	6	D	0	0	0	0	0	0
Other telecommunications	other 517	94	D	0	0	0	0	0	0
Internet service providers, Web search portals, and data-processing services	518	767	3,936	3	D	3	D	0	0
Internet service providers and Web search portals	5181	143	D	0	0	0	0	0	0
Data-processing, hosting, and related services	5182	624	D	3	D	3	D	0	0
Other information	other 51	385	731	1	D	1	D	0	0
Finance, insurance, and real estate	52, 53	1,021	1,969	4	6	3	D	2	D
Professional, scientific, and technical services	54	10,481	30,611	88	961	76	934	15	14
Architectural, engineering, and related services	5413	2,385	4,866	5	D	5	D	0	0
Computer systems design and related services	5415	5,229	13,830	6	56	4	D	1	D
Scientific R&D services	5417	2,044	10,030	76	833	66	814	14	D
Other professional, scientific, and technical services	other 54	823	1,885	1	D	1	D	0	0
Health care services	621–23	1,944	955	2	D	2	D	0	0
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	3,135	1,445	2	D	2	D	0	0

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		Companies	Amount	Companies	Amount	Companies	Amount	Companies	Amount
Company size (employees)									
All companies	-	43,015	223,365	274	5,066	238	4,950	57	66
5-24	-	20,435	6,087	3	1	2	D	1	D
25-49	-	6,659	6,465	20	76	16	D	6	D
50-99	-	6,731	8,360	35	136	30	131	4	1
100-249	-	4,330	12,101	53	348	48	336	6	4
250-499	-	1,926	7,944	23	161	23	153	1	D
500-999	-	1,430	12,482	37	688	34	679	3	D
1,000-4,999	-	1,059	36,019	46	769	37	757	13	D
5,000-9,999	-	195	19,776	15	1,284	13	1,268	3	D
10,000-24,999	-	145	36,049	23	511	20	496	12	12
25,000 or more	-	105	78,082	19	1,092	15	1,056	8	18

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Industry and company size	NAICS codes	Nonprofit organizations (other than universities and colleges)		Federal agencies or laboratories		State government agencies or laboratories	
		Companies	Amount	Companies	Amount	Companies	Amount
All industries	21–23, 31–33, 42, 44–81	21	24	20	25	7	1
Manufacturing industries	31–33	9	4	11	9	3	*
Food	311	1	D	0	0	0	0
Beverage and tobacco products	312	0	0	0	0	0	0
Textiles, apparel, and leather	313–16	0	0	0	0	0	0
Wood products	321	0	0	0	0	0	0
Paper, printing, and support activities	322, 323	0	0	0	0	0	0
Petroleum and coal products	324	0	0	0	0	0	0
Chemicals	325	2	D	3	D	1	D
Basic chemicals	3251	1	D	0	0	1	D
Resin, synthetic rubber, fibers, and filament	3252	0	0	0	0	0	0
Pharmaceuticals and medicines	3254	1	D	2	D	0	0
Other chemicals	other 325	0	0	1	D	0	0
Plastics and rubber products	326	0	0	0	0	0	0
Nonmetallic mineral products	327	0	0	0	0	0	0
Primary metals	331	1	D	0	0	0	0
Fabricated metal products	332	1	D	0	0	0	0
Machinery	333	0	0	2	D	1	D
Computer and electronic products	334	3	2	3	1	0	0
Computers and peripheral equipment	3341	0	0	0	0	0	0
Communications equipment	3342	0	0	0	0	0	0
Semiconductor and other electronic components	3344	1	D	1	D	0	0
Navigational, measuring, electromedical, and control instruments	3345	2	D	2	D	0	0
Other computer and electronic products	other 334	0	0	0	0	0	0
Electrical equipment, appliances, and components	335	0	0	1	D	0	0
Transportation equipment	336	1	D	2	D	0	0
Motor vehicles, trailers, and parts	3361–63	0	0	0	0	0	0
Aerospace products and parts	3364	1	D	0	0	0	0
Other transportation equipment	other 336	0	0	2	D	0	0
Furniture and related products	337	0	0	0	0	0	0
Miscellaneous manufacturing	339	0	0	0	0	1	D
Medical equipment and supplies	3391	0	0	0	0	1	D
Other miscellaneous manufacturing	other 339	0	0	0	0	0	0

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		Companies	Amount	Companies	Amount	Companies	Amount
Nonmanufacturing industries	21–23, 42, 44–81	12	20	9	16	4	1
Mining, extraction, and support activities	21	1	D	1	D	1	D
Utilities	22	4	D	1	D	1	D
Construction	23	0	0	0	0	0	0
Wholesale trade	42	0	0	0	0	0	0
Retail trade	44, 45	0	0	0	0	0	0
Transportation and warehousing	48, 49	0	0	0	0	0	0
Information	51	0	0	0	0	0	0
Publishing	511	0	0	0	0	0	0
Newspaper, periodical, book, and directory	5111	0	0	0	0	0	0
Software	5112	0	0	0	0	0	0
Telecommunications	517	0	0	0	0	0	0
Wired and wireless (except satellite) telecommunications carriers	5171, 5172	0	0	0	0	0	0
Satellite telecommunications	5174	0	0	0	0	0	0
Other telecommunications	other 517	0	0	0	0	0	0
Internet service providers, Web search portals, and data-processing services	518	0	0	0	0	0	0
Internet service providers and Web search portals	5181	0	0	0	0	0	0
Data-processing, hosting, and related services	5182	0	0	0	0	0	0
Other information	other 51	0	0	0	0	0	0
Finance, insurance, and real estate	52, 53	0	0	0	0	0	0
Professional, scientific, and technical services	54	6	2	6	D	1	D
Architectural, engineering, and related services	5413	1	D	1	D	0	0
Computer systems design and related services	5415	1	D	0	0	0	0
Scientific R&D services	5417	4	D	5	D	1	D
Other professional, scientific, and technical services	other 54	0	0	0	0	0	0
Health care services	621–23	0	0	1	D	0	0
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	1	D	0	0	1	D

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		Companies	Amount	Companies	Amount	Companies	Amount
Company size (employees)							
All companies	-	21	24	20	25	7	1
5-24	-	1	D	1	D	1	D
25-49	-	0	0	0	0	0	0
50-99	-	1	D	2	D	0	0
100-249	-	4	D	7	6	1	D
250-499	-	1	D	2	D	0	0
500-999	-	3	D	1	D	0	0
1,000-4,999	-	1	D	2	D	4	D
5,000-9,999	-	2	D	1	D	0	0
10,000-24,999	-	4	D	1	D	1	D
25,000 or more	-	4	D	3	D	0	0

* = amount < \$500,000; D = suppressed to avoid disclosure of confidential information; i = more than 50% of the value is imputed; - = not applicable.

^a Estimates for management of companies and enterprises (NAICS 55), formerly shown separately, now are included in other nonmanufacturing.

NOTES: Detail for number of companies does not add to total because categories are not mutually exclusive. The method used to assign industry classifications has changed; industry-specific estimates are not directly comparable with those for years prior to 2004. The R&D in this table is the industrial R&D performed within company facilities in collaboration with another organization 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. Excludes company-funded R&D not performed within the company (e.g., R&D performed by 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). Data for company-funded R&D performed in collaborations with other organizations by type of partner are collected only on Form RD-1, the questionnaire sent to larger R&D-performing companies. Consequently, the universe of companies may not be represented by the statistics in this table. For definitions and more information about year-to-year comparability of the statistics, see technical notes and survey methodology.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2006.