

TABLE 43. 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: 2007

(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	42,784	242,682	323	5,672	269	5,465	68	75
Manufacturing industries	31–33	18,724	169,307	168	3,365	141	3,240	35	D
Food	311	828	2,722	8	109 i	7	D	3	D
Beverage and tobacco products	312	39	217	1	D	1	D	1	D
Textiles, apparel, and leather	313–16	379	796	1	D	1	D	0	0
Wood products	321	157	202	1	D	1	D	0	0
Paper, printing, and support activities	322, 323	797	2,596	2	D	2	D	1	D
Petroleum and coal products	324	193	1,718	1	D	1	D	0	0
Chemicals	325	2,439	55,319	57	1,261	49	1,182	9	5
Basic chemicals	3251	320	3,158	8	76	5	D	4	D
Resin, synthetic rubber, fibers, and filament	3252	221	951	3	17	3	17	0	0
Pharmaceuticals and medicines	3254	891	47,624	41	1,131	36	1,057	4	D
Other chemicals	other 325	1,007	3,587	5	37	5	D	1	D
Plastics and rubber products	326	1,255	2,072	4	24	4	24	0	0
Nonmetallic mineral products	327	405	1,112	3	D	2	D	2	D
Primary metals	331	306	886	3	D	0	0	1	D
Fabricated metal products	332	1,670	1,594	1	D	1	D	0	0
Machinery	333	2,707	9,796	19	140	15	139	7	D
Computer and electronic products	334	3,131	49,760	28	935 i	24	920 i	6	3
Computers and peripheral equipment	3341	229	6,869	4	D	4	D	0	0
Communications equipment	3342	453	11,435	4	D	4	D	0	0
Semiconductor and other electronic components	3344	607	18,315	5	95 i	4	D	1	D
Navigational, measuring, electromedical, and control instruments	3345	1,728	12,262	15	138	12	D	5	D
Other computer and electronic products	other 334	114	879	0	0	0	0	0	0
Electrical equipment, appliances, and components	335	786	2,617	5	4	3	D	2	D
Transportation equipment	336	1,257	30,974	23	754	20	D	2	D
Motor vehicles, trailers, and parts	3361–63	819	16,034	15	D	13	D	2	D
Aerospace products and parts	3364	235	13,397	5	223	4	D	0	0
Other transportation equipment	other 336	203	1,543	3	D	3	D	0	0
Furniture and related products	337	427	581	0	0	0	0	0	0
Miscellaneous manufacturing	339	1,949	6,344	11	110	10	D	1	D
Medical equipment and supplies	3391	966	5,116	9	D	8	D	1	D
Other miscellaneous manufacturing	other 339	983	1,228	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	24,060	73,375	155	2,307	128	2,225	33	D
Mining, extraction, and support activities	21	216	1,436	4	D	3	D	4	D
Utilities	22	43	200	4	39	2	D	2	D
Construction	23	538	386	0	0	0	0	0	0
Wholesale trade	42	3,646	2,277	5	29	5	D	1	D
Retail trade	44, 45	1,587	2,517	4	D	4	D	1	D
Transportation and warehousing	48, 49	281	166	3	D	3	D	1	D
Information	51	2,423	28,767	19	700	18	D	1	D
Publishing	511	1,408	20,878	10	545	9	545	1	D
Newspaper, periodical, book, and directory	5111	104	1,245	0	0	0	0	0	0
Software	5112	1,305	19,634	10	545	9	545	1	D
Telecommunications	517	237	3,107	3	D	3	D	0	0
Wired and wireless (except satellite)									
telecommunications carriers	5171, 5172	98	2,320	2	D	2	D	0	0
Satellite telecommunications	5174	4	D	0	0	0	0	0	0
Other telecommunications	other 517	135	D	1	D	1	D	0	0
Internet service providers, Web search portals, and data-processing services	518	562	4,190	3	D	3	D	0	0
Internet service providers and Web search portals	5181	172	2,351	0	0	0	0	0	0
Data-processing, hosting, and related services	5182	390	1,838	3	D	3	D	0	0
Other information	other 51	216	593	3	D	3	D	0	0
Finance, insurance, and real estate	52, 53	331	2,021	4	2	3	D	2	D
Professional, scientific, and technical services	54	10,666	32,924	108	1,009	86	981	19	14
Architectural, engineering, and related services	5413	1,712	3,997	5	D	4	D	0	0
Computer systems design and related services	5415	4,181	13,603	9	43	7	D	2	D
Scientific R&D services	5417	1,732	12,017	92	940	74	920	16	D
Other professional, scientific, and technical services	other 54	3,041	3,307	2	D	1	D	1	D
Health care services	621–23	2,846	1,274	1	D	1	D	1	D
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	1,482	1,406	3	11	3	D	1	D

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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
Company size (employees)									
All companies	0	42,784	242,682	323	5,672	269	5,465	68	75
5-24	0	21,234	9,183	9	13	6	11	4	D
25-49	0	6,778	7,269	28	117	21	114	7	2
50-99	0	5,932	9,308	50	199	37	191	7	3
100-249	0	4,264	12,090	48	472	45	464	5	2
250-499	0	1,802	7,702	17	133	16	129	3	D
500-999	0	1,266	13,617	40	784	32	725	6	D
1,000-4,999	0	1,032	39,816	52	1,375	46	1,342	9	6
5,000-9,999	0	211	21,157	19	1,023	16	1,008	6	D
10,000-24,999	0	158	44,016	35	642	29	620	14	15
25,000 or more	0	106	78,523	25	913	21	861	7	26

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(Amount in millions of dollars)

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	22	71	31	58	5	3
Manufacturing industries	31–33	10	D	20	D	3	D
Food	311	0	0	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	1	D	0	0	0	0
Petroleum and coal products	324	0	0	0	0	0	0
Chemicals	325	3	D	6	D	0	0
Basic chemicals	3251	1	D	0	0	0	0
Resin, synthetic rubber, fibers, and filament	3252	0	0	0	0	0	0
Pharmaceuticals and medicines	3254	2	D	5	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	1	D	0	0
Primary metals	331	2	D	1	D	0	0
Fabricated metal products	332	0	0	0	0	0	0
Machinery	333	1	D	0	0	2	D
Computer and electronic products	334	2	D	7	D	1	D
Computers and peripheral equipment	3341	0	0	1	D	0	0
Communications equipment	3342	0	0	0	0	0	0
Semiconductor and other electronic components	3344	0	0	1	D	0	0
Navigational, measuring, electromedical, and control instruments	3345	2	D	5	D	1	D
Other computer and electronic products	other 334	0	0	0	0	0	0
Electrical equipment, appliances, and components	335	0	0	0	0	0	0
Transportation equipment	336	0	0	4	D	0	0
Motor vehicles, trailers, and parts	3361–63	0	0	0	0	0	0
Aerospace products and parts	3364	0	0	3	D	0	0
Other transportation equipment	other 336	0	0	1	D	0	0
Furniture and related products	337	0	0	0	0	0	0
Miscellaneous manufacturing	339	1	D	1	D	0	0
Medical equipment and supplies	3391	1	D	1	D	0	0
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	D	11	D	2	D
Mining, extraction, and support activities	21	2	D	1	D	1	D
Utilities	22	2	D	0	0	0	0
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	3	D	0	0	0	0
Publishing	511	2	D	0	0	0	0
Newspaper, periodical, book, and directory	5111	0	0	0	0	0	0
Software	5112	2	D	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	1	D	0	0	0	0
Finance, insurance, and real estate	52, 53	0	0	0	0	0	0
Professional, scientific, and technical services	54	4	2	10	13	0	0
Architectural, engineering, and related services	5413	1	D	0	0	0	0
Computer systems design and related services	5415	0	0	0	0	0	0
Scientific R&D services	5417	3	D	10	13	0	0
Other professional, scientific, and technical services	other 54	0	0	0	0	0	0
Health care services	621–23	0	0	0	0	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	-	22	71	31	58	5	3
5-24	-	2	D	0	0	1	D
25-49	-	0	0	3	1	0	0
50-99	-	2	D	7	D	0	0
100-249	-	3	1	4	5 i	0	0
250-499	-	1	D	1	D	0	0
500-999	-	2	D	2	D	0	0
1,000-4,999	-	1	D	5	26	2	D
5,000-9,999	-	1	D	1	D	1	D
10,000-24,999	-	6	4	4	3	0	0
25,000 or more	-	4	D	4	D	1	D

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 funded from all sources except the federal government. The funds are predominantly 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 R&D performed outside of the company (e.g., R&D performed by other organizations) and R&D performed outside of the 50 U.S. states and 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: 2007.