

Appendix table 4-19

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Total (federal plus company and other) funds for industrial R&D performance in United States, by industry and company size: 2001–05

(Millions of dollars)

Industry/size of company	NAICS code	2001	2002	2003	2004	2005
All industries.....	21–23, 31–33, 42, 44–81	202,017	193,868	200,724	208,301	226,159
Manufacturing industries.....	31–33	124,217	112,089	120,858	147,288	158,190
Food.....	311	1,819	D	D	2,254	2,716
Beverage and tobacco products.....	312	152	170	173	555 i	539 i
Textiles, apparel, and leather.....	313–16	D	D	D	570	816
Wood products.....	321	182	D	D	D	D
Paper, printing, and support activities.....	322, 323	D	D	D	D	D
Petroleum and coal products.....	324	D	D	D	1,603	D
Chemicals.....	325	17,892	20,641	23,001	D	42,995
Basic chemicals.....	3251	1,876	1,782	2,061	2,393	2,277
Resin, synthetic rubber, fibers, and filament.....	3252	D	2,426	2,406	2,096	2,294
Pharmaceuticals and medicines.....	3254	10,137	D	D	31,477	34,839
Other chemicals.....	Other 325	D	D	D	D	3,584
Plastics and rubber products.....	326	D	D	1,764	D	1,760
Nonmetallic mineral products.....	327	990	D	474	787	894
Primary metals.....	331	485	473	530	727	631
Fabricated metal products.....	332	1,599	1,355	1,374	1,512	1,375
Machinery.....	333	6,404	6,429	6,304	6,579	8,531
Computer and electronic products.....	334	50,591	38,881	39,001	48,296	D
Computers and peripheral equipment.....	3341	D	3,040	2,587	5,734	4,955
Communications equipment.....	3342	19,019	9,739	9,198	D	D
Semiconductor and other electronic components.....	3344	14,358	11,919	12,635	D	18,724
Navigational, measuring, electromedical, and control instruments.....	3345	12,947	13,729	14,014	15,214	15,204
Other computer and electronic products.....	Other 334	D	453	566	1,148	997
Electrical equipment, appliances, and components.....	335	4,980	2,039	2,073	2,664	2,424
Transportation equipment.....	336	25,965	26,145	31,747	D	D
Motor vehicles, trailers, and parts.....	3361–63	D	D	D	15,677	D
Aerospace products and parts.....	3364	7,868	9,654	13,205	13,086	15,005
Other transportation equipment.....	Other 336	D	D	D	D	D
Furniture and related products.....	337	301	258	D	408	400
Miscellaneous manufacturing.....	339	6,606	7,457	7,455	4,388	5,143
Medical equipment and supplies.....	3391	D	D	6,386	3,343	4,374
Other miscellaneous manufacturing.....	Other 339	D	D	1,069	1,045	769
Nonmanufacturing industries.....	21–23, 42, 44–81	77,799	81,779	79,866	61,013	67,969
Mining, extraction, and support activities.....	21	D	D	D	D	D
Utilities.....	22	133	D	D	202	210
Construction.....	23	320	164	333	1,481	D
Wholesale trade.....	42	NA	D	25,092	D	D
Retail trade.....	44, 45	NA	932	1,488	1,596	D
Transportation and warehousing.....	48, 49	1,848	D	272	D	D
Information.....	51	D	17,870	D	22,593	23,836
Publishing.....	511	13,760	13,541	D	D	17,747
Newspaper, periodical, book, and database.....	5111	649	614	665	D	821
Software.....	5112	13,111	12,927	D	D	16,926
Broadcasting and telecommunications.....	513	D	D	1,663	2,215	NA
Telecommunications.....	5133	D	D	1,625	2,052	NA
Other broadcasting and telecommunications.....	Other 513	NA	NA	38	163	NA
Telecommunications.....	517	NA	NA	NA	NA	2,539
Wired and wireless (except satellite) telecommunications carriers.....	5171, 5172	NA	NA	NA	NA	2,358
Satellite telecommunications.....	5174	NA	NA	NA	NA	13
Other telecommunications.....	Other 517	NA	NA	NA	NA	168
Internet service providers, Web search portals, and data processing services.....	518	NA	NA	NA	NA	3,337
Internet service providers and Web search portals.....	5181	NA	NA	NA	NA	1,042
Data processing, hosting, and related services.....	5182	NA	NA	NA	NA	2,295
Other information.....	Other 51	D	D	D	D	213
Finance, insurance, and real estate.....	52, 53	D	1,903	1,455	1,708	3,030
Professional, scientific, and technical services.....	54	27,704	30,358	27,967	28,709	32,021
Architectural, engineering, and related services.....	5413	3,386	4,159	5,159	4,265	4,687

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(Millions of dollars)

Industry/size of company	NAICS code	2001	2002	2003	2004	2005
Computer systems design and related services	5415	9,154	11,983	9,032	11,575	13,592
Scientific R&D services	5417	14,244	13,034	12,460	11,355	12,299
Other professional, scientific, and technical services	Other 54	920	1,182	1,316	1,514	1,444
Management of companies and enterprises ^a	55	381	148	67	NA	NA
Health care services	621–23	1,149	D	717	500	989
Other nonmanufacturing	56, 61, 624, 71, 72, 81	1,259	D	1,679	1,595	2,137
Company size (employees)						
All companies	na	202,017	193,868	200,724	208,301	226,159
5–24	na	4,828	4,261	5,578	6,295	7,373
25–49	na	3,750	3,845	6,449	5,906	7,488
50–99	na	8,202	6,164	4,829	6,456	7,144
100–249	na	12,916	13,227	9,559	11,045	10,327
250–499	na	8,702	8,055	9,536	8,380	8,149
500–999	na	10,564	9,925	10,383	10,821	13,992
1,000–4,999	na	26,748	28,625	30,484	31,475	34,969
5,000–9,999	na	17,438	17,942	15,434	18,191	18,170
10,000–24,999	na	27,065	26,458	26,817	31,208	33,564
25,000 or more	na	81,804	75,365	81,654	78,523	84,983

D = suppressed to avoid disclosure of confidential information; i = imputation of >50%; NA = not available; na = not applicable
 NAICS = North American Industry Classification System (1997 Rev. used to classify 2001–04 statistics; 2002 Rev. used for 2005)

^aEstimates for management of companies and enterprises (NAICS 55), shown separately for 2001–03, included in other manufacturing for 2004 and 2005.

NOTES: R&D is industrial R&D performed within company facilities funded from all sources. Funds are company's own; funds from outside organizations, such as other companies, research institutions, universities and colleges, nonprofit organizations, and state governments; and funds from federal government. Excluded are R&D not performed within company (e.g., R&D contracted out to other organizations) and R&D not performed within 50 United States or District of Columbia (e.g., R&D performed outside United States by foreign subsidiaries or other foreign organizations). For more technical information, see <http://www.nsf.gov/statistics/srvyindustry>, accessed 17 April 2007.

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