

TABLE 3. Funds for industrial R&D performance in the United States, by industry and size of company: 1999–2002
(Millions of dollars)

Industry and size of company	NAICS codes	1999 ^a	2000	2001 ^b	2002 ^b	Percent change 2002/2001
Distribution by industry:						
All industries	21-23, 31-33, 42, 44-81	182,711	199,539	198,505	190,809	-4
Manufacturing	31-33	116,921	124,078	120,705	108,985	-10
Food	311	1,132	(D)	1,819	(D)	(na)
Beverage and tobacco products	312	(D)	417	152	170	12
Textiles, apparel, and leather	313-16	334	(D)	(D)	(D)	(na)
Wood products	321	70	105	182	(D)	(na)
Paper, printing and support activities	322, 323	(D)	(D)	(D)	(D)	(na)
Petroleum and coal products	324	615	(D)	(D)	(D)	(na)
Chemicals	325	20,246	20,918	17,892	20,641	15
Basic chemicals	3251	2,746	2,080	1,876	1,782	-5
Resin, synthetic rubber, fibers, and filament	3252	(D)	2,852	(D)	2,426	(na)
Pharmaceuticals and medicines	3254	(D)	(D)	10,137	(D)	(na)
Other chemicals	325 minus (3251-52, 3254)	(D)	(D)	(D)	(D)	(na)
Plastics and rubber products	326	1,785	(D)	(D)	(D)	(na)
Nonmetallic mineral products	327	(D)	846	990	(D)	(na)
Primary metals	331	470	624	485	473	-2
Fabricated metal products	332	1,655	1,672	1,599	1,355	-15
Machinery	333	6,057	6,580	6,404	6,429	0
Computer and electronic products	334	35,932	45,097	47,079	35,777	-24
Computers and peripheral equipment	3341	(D)	5,162	(D)	3,040	(na)
Communications equipment	3342	6,003	11,616	15,507	6,635	-57
Semiconductor and other electronic components	3344	10,701	12,894	14,358	11,919	-17
Navigational, measuring, electromedical, and control instruments	3345	14,337	15,116	12,947	13,729	6
Other computer and electronic products	334 minus (3341-42, 3344-45)	(D)	310	(D)	453	(na)
Electrical equipment, appliances, and components	335	(D)	(D)	4,980	2,039	-59
Transportation equipment	336	33,965	30,085	25,965	26,145	1
Motor vehicles, trailers, and parts	3361-63	(D)	(D)	(D)	(D)	(na)
Aerospace products and parts	3364	14,425	10,319	7,868	9,654	23
Other transportation equipment	336 minus (3361-64)	(D)	(D)	(D)	(D)	(na)
Furniture and related products	337	248	284	301	258	-14
Miscellaneous manufacturing	339	3,851	4,206	6,606	7,457	13
Medical equipment and supplies	3391	(D)	(D)	(D)	(D)	(na)
Other miscellaneous manufacturing	339 minus (3391)	(D)	(D)	(D)	(D)	(na)
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)	--	--	--	--	(na)
Nonmanufacturing	21-23, 42, 44-81	65,790	75,461	77,799	81,824	5
Mining, extraction, and support activities	21	(D)	823	(D)	(D)	(na)
Utilities	22	142	(D)	133	(D)	(na)
Construction	23	691	(D)	320	164	-49
Trade	42, 44, 45	19,616	24,959	24,372	(D)	(na)
Transportation and warehousing	48, 49	460	(D)	1,848	(D)	(na)
Information	51	15,389	16,830	(D)	17,870	(na)

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Distribution by industry:						
Publishing	511	11,302	13,004	13,760	13,541	-2
Newspaper, periodical, book, and database	5111	371	365	649	614	-5
Software	5112	10,931	12,639	13,111	12,927	-1
Broadcasting and telecommunications	513	(D)	1,407 (S)	(D)	(D)	(na)
Radio and television broadcasting	5131	(D)	(D)	(D)	(D)	(na)
Telecommunications	5133	(D)	(D)	(D)	(D)	(na)
Other broadcasting and telecommunications	513 minus (5131, 5133)	31	59	(D)	(D)	(na)
Other information	51 minus (511, 513)	(D)	2,420	(D)	(D)	(na)
Finance, insurance, and real estate	52, 53	(D)	4,025	(D)	1,903	(na)
Professional, scientific, and technical services	54	18,994	22,577	27,704	30,358	10
Architectural, engineering, and related services	5413	3,580	3,381	3,386	4,159	23
Computer systems design and related services	5415	(D)	5,169	9,154	11,983	31
Scientific R&D services	5417	10,470	12,892	14,244	13,034	-8
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	(D)	1,135	920	1,182	28
Management of companies and enterprises	55	(D)	49	381	148	-61
Health care services	621-23	642	536	1,149	(D)	(na)
Other nonmanufacturing	56, 61, 624, 71, 72, 81	(D)	731	1,259	(D)	(na)
Distribution by size of company (number of employees):						
Total	(na)	182,711	199,539	198,505	190,809	-4
5 to 24	(na)	7,004	6,862	4,828	4,261	-12
25 to 49	(na)	4,750	5,008	3,750	3,845	3
50 to 99	(na)	7,225	7,259	8,202	6,164	-25
100 to 249	(na)	7,213	9,020	12,916	13,227	2
250 to 499	(na)	7,892	7,479	8,702	8,055	-7
500 to 999	(na)	7,032	9,074	10,564	9,925	-6
1,000 to 4,999	(na)	24,840	30,636	26,748	28,625	7
5,000 to 9,999	(na)	16,376	16,768	17,487	17,987	3
10,000 to 24,999	(na)	24,922	28,653	27,065	26,458	-2
25,000 or more	(na)	75,457	78,779	78,244	72,261	-8

(D) = data have been withheld to avoid disclosing operations of individual companies; (S) = indicates imputation of more than 50 percent; (--) = indicates data not collected; (na) = not applicable.

^a Some statistics for 1999 have been revised since originally published.

^b Beginning with 2001, statistics for total and federally funded industrial R&D exclude data for federally funded research and development centers.

NOTE: The R&D in this table is the industrial R&D performed within company facilities funded from all sources. The funds are the company's own; funds from outside organizations such as other companies, research institutions, universities and colleges, nonprofit organizations, and state governments; and funds from the federal government. Excluded from this table are R&D not performed within the company (e.g., R&D contracted out to other organizations) and 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.