

TABLE 20. Federal 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	22,535	19,118	16,899	16,401	-3
Manufacturing	31–33	17,055	13,328	11,484	10,745	-6
Food	311	-	(D)	-	(D)	(na)
Beverage and tobacco products	312	-	-	-	-	(na)
Textiles, apparel, and leather	313–16	-	(D)	(D)	(D)	(na)
Wood products	321	-	-	-	(D)	(na)
Paper, printing and support activities	322, 323	(D)	(D)	(D)	(D)	(na)
Petroleum and coal products	324	(D)	(D)	(D)	(D)	(na)
Chemicals	325	194	150	180	246	37
Basic chemicals	3251	98	31	42	72	71
Resin, synthetic rubber, fibers, and filament	3252	(D)	11	(D)	13	(na)
Pharmaceuticals and medicines	3254	(D)	(D)	-	(D)	(na)
Other chemicals	325 minus (3251–52, 3254)	(D)	(D)	(D)	(D)	(na)
Plastics and rubber products	326	-	(D)	(D)	(D)	(na)
Nonmetallic mineral products	327	(D)	1	11	(D)	(na)
Primary metals	331	12	26 (S)	6	12	100
Fabricated metal products	332	46	41	54	104	93
Machinery	333	399 (S)	41	67	62	-7
Computer and electronic products	334	5,993	5,544	5,848	5,470	-6
Computers and peripheral equipment	3341	(D)	-	(D)	25	(na)
Communications equipment	3342	206	432	298	215	-28
Semiconductor and other electronic components	3344	77	107	148	48	-68
Navigational, measuring, electromedical, and control instruments	3345	5,705	5,002	5,382	5,180	-4
Other computer and electronic products	334 minus (3341–42, 3344–45)	(D)	3	(D)	1	(na)
Electrical equipment, appliances, and components	335	(D)	(D)	301 (S)	61	-80
Transportation equipment	336	10,037	7,168	4,961	4,692	-5
Motor vehicles, trailers, and parts	3361–63	(D)	(D)	(D)	(D)	(na)
Aerospace products and parts	3364	9,117	6,424	3,785	4,306	14
Other transportation equipment	336 minus (3361–64)	(D)	(D)	(D)	(D)	(na)
Furniture and related products	337	-	-	-	7	(na)
Miscellaneous manufacturing	339	26	12	25	44	76
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	5,479	5,790	5,415	5,656	4
Mining, extraction, and support activities	21	(D)	1	(D)	(D)	(na)
Utilities	22	17	(D)	19	(D)	(na)
Construction	23	2	(D)	1	(z)	(na)
Trade	42, 44, 45	95	30	88	(D)	(na)
Transportation and warehousing	48, 49	-	(D)	72	(D)	(na)
Information	51	497	540 (S)	(D)	106	(na)

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Distribution by industry:						
Publishing	511	49	78	44	53	20
Newspaper, periodical, book, and database	5111	-	-	-	-	(na)
Software	5112	49	78	44	53	20
Broadcasting and telecommunications	513	(D)	382 (S)	(D)	(D)	(na)
Radio and television broadcasting	5131	(D)	(D)	-	-	(na)
Telecommunications	5133	(D)	(D)	(D)	(D)	(na)
Other broadcasting and telecommunications	513 minus (5131, 5133)	13	-	-	-	(na)
Other information	51 minus (511, 513)	(D)	81	(D)	(D)	(na)
Finance, insurance, and real estate	52, 53	(D)	-	(D)	-	(na)
Professional, scientific, and technical services	54	4,615	4,628	5,065	5,412	7
Architectural, engineering, and related services	5413	1,177	1,149	1,021	1,337	31
Computer systems design and related services	5415	(D)	226	498	1,590	219
Scientific R&D services	5417	3,057	3,177	3,352	2,299	-31
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	(D)	77	194	186	-4
Management of companies and enterprises	55	(D)	-	-	-	(na)
Health care services	621–23	10	59	29	(D)	(na)
Other nonmanufacturing	56, 61, 624, 71, 72, 81	(D)	18	38	(D)	(na)
Distribution by size of company (number of employees):						
Total	(na)	22,535	19,118	16,899	16,401	-3
5 to 24	(na)	611	922	653	789	21
25 to 49	(na)	368	222	201	259	29
50 to 99	(na)	603	514	548	463	-16
100 to 249	(na)	674	669	903	606	-33
250 to 499	(na)	485	660	560	686	23
500 to 999	(na)	591	495	627	531	-15
1,000 to 4,999	(na)	896	775	608	985	62
5,000 to 9,999	(na)	2,194	1,625	1,651	1,574	-5
10,000 to 24,999	(na)	397	678	904	1,226	36
25,000 or more	(na)	15,717	12,559	10,243	9,282	-9

(D) = data have been withheld to avoid disclosing operations of individual companies; (S) = indicates imputation of more than 50 percent; (z) = indicates data less than half the unit shown; (-) = indicates data not collected; (-) = indicates a value of zero or a value rounded to zero; (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.

NOTES: The R&D in this table is the industrial R&D performed within company facilities funded by 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 subsidiaries or other foreign organizations). For information on sampling for 2002, see appendix A, Technical Notes.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2002.