

TABLE 7. Funds for industrial R&amp;D performance in the United States, by industry and size of company and by type of cost: 2002

Industry and size of company	NAICS codes	Total R&D cost	Wages of R&D personnel	Fringe benefits of R&D personnel	Materials and supplies	R&D depreciation	Other costs
		Millions of dollars	Percent				
Distribution by industry:							
All industries	21-23, 31-33, 42, 44-81	190,809	44.5	8.5	11.6	4.3	31.0
Manufacturing	31-33	108,985	43.3	9.0	14.2	4.0	29.6
Food	311	(D)	41.8	11.4	10.2	5.6	31.0
Beverage and tobacco products	312	170	48.2	17.9	6.4	6.1	21.4
Textiles, apparel, and leather	313-16	(D)	46.9	6.2	15.5	2.2 (S)	29.3
Wood products	321	(D)	48.1	4.1	8.8	4.1	34.9
Paper, printing and support activities	322, 323	(D)	47.4	2.8 (S)	13.3	3.6	33.0
Petroleum and coal products	324	(D)	38.7 (S)	18.2 (S)	9.5 (S)	2.7 (S)	30.9 (S)
Chemicals	325	20,641	38.5	8.3	11.5	6.6	35.1
Basic chemicals	3251	1,782	44.5	9.5	11.2	6.2	28.7
Resin, synthetic rubber, fibers, and filament	3252	2,426	47.4	4.6	9.7	9.4	28.8
Pharmaceuticals and medicines	3254	(D)	34.3	8.0	11.6	6.2	39.9
Other chemicals	325 minus (3251-52, 3254)	(D)	51.6	14.4	13.0	5.7	15.3
Plastics and rubber products	326	(D)	52.4	8.7	20.9	4.1	13.9
Nonmetallic mineral products	327	(D)	40.8	10.1	13.3	3.6	32.2
Primary metals	331	473	73.2	4.0	5.8	4.8	12.2
Fabricated metal products	332	1,355	51.2	15.9	9.0	2.7	21.1
Machinery	333	6,429	42.7	5.1	20.7	5.5	26.0
Computer and electronic products	334	35,777	48.9	7.3	14.6 (S)	4.4	24.8
Computers and peripheral equipment	3341	3,040	53.2	6.1 (S)	9.9 (S)	6.4 (S)	24.3
Communications equipment	3342	6,635	48.8 (S)	4.0	20.9 (S)	4.1	22.2 (S)
Semiconductor and other electronic components	3344	11,919	49.7	7.1	10.5	5.4	27.4
Navigational, measuring, electromedical, and control instruments	3345	13,729	47.1 (S)	9.3 (S)	16.1 (S)	3.5 (S)	24.0 (S)
Other computer and electronic products	334 minus (3341-42, 3344-45)	453	60.2	3.9	9.5	3.4	22.9 (S)
Electrical equipment, appliances, and components	335	2,039	48.2	9.6	11.5	3.1	27.6
Transportation equipment	336	26,145	42.5	13.3	16.9	1.9	25.4
Motor vehicles, trailers, and parts	3361-63	(D)	48.4	15.5 (S)	16.6	2.3 (S)	17.4 (S)
Aerospace products and parts	3364	9,654	33.1	10.3	16.5	1.0	39.1
Other transportation equipment	336 minus (3361-64)	(D)	44.1	9.5 (S)	23.9	4.3	18.2
Furniture and related products	337	258	46.4	9.9	13.3	1.4 (S)	28.9
Miscellaneous manufacturing	339	7,457	24.9 (S)	5.0 (S)	7.5 (S)	1.1	61.5
Medical equipment and supplies	3391	(D)	22.2 (S)	4.4 (S)	7.4 (S)	1.0	65.0
Other miscellaneous manufacturing	339 minus (3391)	(D)	51.1	10.8	7.8	1.8	28.5
Other manufacturing	31-33 minus (311-16, 321-27, 331-37, 339)	--	--	--	--	--	--

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		Millions of dollars	Percent				
Distribution by industry:							
Nonmanufacturing	21–23, 42, 44–81	81,824	46.5	7.7	7.5	4.8	33.4
Mining, extraction, and support activities	21	(D)	53.1 (S)	11.3 (S)	11.1 (S)	4.7 (S)	19.8 (S)
Utilities	22	(D)	22.4	(D)	13.0	(D)	58.1
Construction	23	164	47.7	7.4 (S)	29.2	1.1 (S)	14.6
Trade	42, 44, 45	(D)	36.4	5.2	6.5	4.3	47.7
Transportation and warehousing	48, 49	(D)	53.7	16.9	1.4	(D)	(D)
Information	51	17,870	64.7	9.1 (S)	3.0 (S)	4.8 (S)	18.4
Publishing	511	13,541	61.2 (S)	10.3 (S)	3.4 (S)	5.2 (S)	19.9
Newspaper, periodical, book, and database	5111	614	67.4	10.4	(D)	(D)	17.3
Software	5112	12,927	60.9 (S)	10.3 (S)	3.5 (S)	5.3 (S)	20.1
Broadcasting and telecommunications	513	(D)	81.3 (S)	4.9 (S)	1.4 (S)	8.1 (S)	4.4 (S)
Radio and television broadcasting	5131	(D)	(D)	(D)	(D)	(D)	(D)
Telecommunications	5133	(D)	81.4 (S)	4.8 (S)	1.4 (S)	8.0 (S)	4.4 (S)
Other broadcasting and telecommunications	513 minus (5131, 5133)	(D)	(D)	(D)	(D)	(D)	(D)
Other information	51 minus (511, 513)	(D)	81.2	3.2	1.3	0.6 (S)	13.6
Finance, insurance, and real estate	52, 53	1,903	72.5	7.6	6.0 (S)	2.6	11.5
Professional, scientific, and technical services	54	30,358	42.5	9.1	11.6	5.7	31.1
Architectural, engineering, and related services	5413	4,159	42.4	10.9	18.0	6.6 (S)	22.1
Computer systems design and related services	5415	11,983	50.9	9.4	5.4	5.9	28.4
Scientific R&D services	5417	13,034	35.3	8.4	15.7	5.4	35.3
Other professional, scientific, and technical services	54 minus (5413, 5415, 5417)	1,182	41.7	7.9	8.6	2.2	39.6 (S)
Management of companies and enterprises	55	148	56.3	(D)	(D)	2.8	37.9
Health care services	621–23	(D)	43.8	12.3	4.0	1.3	38.6
Other nonmanufacturing	56, 61, 624, 71, 72, 81	(D)	45.9	6.9	4.4 (S)	10.4	32.3

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Industry and size of company	NAICS codes	Total R&D cost	Wages of R&D personnel	Fringe benefits of R&D personnel	Materials and supplies	R&D depreciation	Other costs
		Millions of dollars	Percent				
Distribution by size of company (number of employees):							
Total	(na)	190,809	44.5	8.5	11.6	4.3	31.0
5 to 24	(na)	4,261	44.8	8.2	14.4	4.4	28.1
25 to 49	(na)	3,845	38.4	8.1	11.9	5.0	36.6
50 to 99	(na)	6,164	44.9	7.7	12.4	5.4	29.6
100 to 249	(na)	13,227	41.6	7.4	14.0	5.8	31.5
250 to 499	(na)	8,055	47.7	7.4	10.1	5.6	29.7
500 to 999	(na)	9,925	47.6	7.3	10.2	5.2	29.8
1,000 to 4,999	(na)	28,625	47.9	7.8	10.8	6.1	27.3
5,000 to 9,999	(na)	17,987	45.1	8.1	12.4	4.6	29.8
10,000 to 24,999	(na)	26,458	40.3	7.3	10.3	3.3	38.8
25,000 or more	(na)	72,261	44.4	9.7	12.2	3.7	30.0

(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.

NOTE: 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.