

TABLE 21. Funds for industrial R&D and as a percent of net sales of the top 20 industrial R&D-performing companies in the United States, by industry and company size, ranked by R&D program size: 2006

Industry and company size	NAICS codes	All funds (\$millions)			% of net sales		
		First 4 companies	Next 4 companies	Next 12 companies	First 4 companies	Next 4 companies	Next 12 companies
All industries	21–23, 31–33, 42, 44–81	20,732	17,952	32,163	17.3	9.8	7.2
Manufacturing industries	31–33	19,556	15,289	28,672	16.6	5.8	6.8
Food	311	993	452	625	1.3	0.6	0.8
Beverage and tobacco products	312	485	40	21	1.7	0.6	0.2
Textiles, apparel, and leather	313–16	290	73	97	1.7	1.8	2.2
Wood products	321	123	22	24	1.5	0.4	0.3
Paper, printing, and support activities	322, 323	2,115	237	178	1.7	0.5	1.5
Petroleum and coal products	324	1,364	35	21	0.3	D	0.4
Chemicals	325	12,948	7,522	10,298	13.7	16.8	9.8
Basic chemicals	3251	637	369	552	2.0	3.8	1.7
Resin, synthetic rubber, fibers, and filament	3252	1,675	135	99	3.7	0.9	0.4
Pharmaceuticals and medicines	3254	12,948	7,522	9,106	13.7	16.8	13.0
Other chemicals	other 325	1,438	361	658	7.3	2.8	2.5
Plastics and rubber products	326	773	143	291	4.9	3.5	1.8
Nonmetallic mineral products	327	547	136	133	3.4	3.4	1.0
Primary metals	331	332	75	119	1.3	0.3	0.2
Fabricated metal products	332	219	128	208	3.0	1.9	0.8
Machinery	333	3,244	1,146	1,536	6.4	5.4	3.0
Computer and electronic products	334	16,143	7,289	9,743	18.3	9.8	7.7
Computers and peripheral equipment	3341	4,597	1,046	902	5.9	16.9	9.8
Communications equipment	3342	7,427	834	830	17.6	12.1	16.2
Semiconductor and other electronic components	3344	8,500	2,833	3,208	11.4	7.3	31.0
Navigational, measuring, electromedical, and control instruments	3345	9,485	2,123	3,056	17.5	9.9	11.1
Other computer and electronic products	other 334	676	202	118	7.0	3.7	5.5
Electrical equipment, appliances, and components	335	535	210	424	3.1	4.4	5.0
Transportation equipment	336	16,234	10,062	5,914	5.1	4.2	4.0
Motor vehicles, trailers, and parts	3361–63	10,956	1,520	2,067	3.3	2.2	2.4
Aerospace products and parts	3364	13,662	1,884	664	6.4	9.6	19.3
Other transportation equipment	other 336	3,943	149	111	6.6	1.1	0.9
Furniture and related products	337	143	67	70	0.9	0.9	0.6
Miscellaneous manufacturing	339	1,322	600	823	9.7	9.2	6.8
Medical equipment and supplies	3391	1,322	492	598	9.7	12.9	6.4
Other miscellaneous manufacturing	other 339	491	134	112	7.2	4.2	2.3

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Nonmanufacturing industries	21–23, 42, 44–81	14,746	4,611	6,862	18.5	23.8	5.0
Mining, extraction, and support activities	21	933	80	85	0.8	0.8	0.4
Utilities	22	100	45	40	0.2	0.2	0.1
Construction	23	1,125	31	35	8.2	1.1	0.2
Wholesale trade	42	157	120	250	18.9	53.1	4.1
Retail trade	44, 45	1,081	126	104	3.6	0.7	0.1
Transportation and warehousing	48, 49	235	22	19	0.4	0.2	0.3
Information	51	10,276	2,561	4,142	21.0	2.5	16.5
Publishing	511	9,854	1,903	2,926	21.7	26.2	19.2
Newspaper, periodical, book, and directory	5111	784	83	56	7.0	D	1.4
Software	5112	9,854	1,903	2,477	21.7	26.2	23.1
Telecommunications	517	1,208	436	281	0.8	0.3	1.3
Wired and wireless (except satellite) telecommunications carriers	5171, 5172	1,208	300	103	D	D	1.1
Satellite telecommunications	5174	D	D	0	D	D	0.0
Other telecommunications	other 517	302	28	16	0.4	1.0	2.1
Internet service providers, Web search portals, and data-processing services	518	2,444	452	293	10.5	5.6	10.6
Internet service providers and Web search portals	5181	D	20	23	D	D	12.1
Data-processing, hosting, and related services	5182	1,393	165	250	7.3	8.2	9.8
Other information	other 51	224	66	66	D	5.4	4.3
Finance, insurance, and real estate	52, 53	638	288	325	D	0.2	0.4
Professional, scientific, and technical services	54	8,831	1,597	2,422	19.5	1.7	13.5
Architectural, engineering, and related services	5413	2,205	358	574	78.1	6.0	24.2
Computer systems design and related services	5415	6,147	808	959	4.7	10.9	D
Scientific R&D services	5417	2,978	624	1,030	31.4	102.3	96.9
Other professional, scientific, and technical services	other 54	409	95	124	D	D	2.8
Health care services	621–23	724	35	31	6.9	D	0.5
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	635	134	161	5.6	3.0	3.5

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Company size (employees)							
All companies	-	20,732	17,952	32,163	17.3	9.8	7.2
5-24	-	65	33	81	D	99.9	67.5
25-49	-	178	102	218	D	227.0	145.4
50-99	-	170	145	359	811.2	221.6 i	355.7
100-249	-	418	315	661	128.1	205.8	129.8
250-499	-	473	303	655	232.5	D	58.6
500-999	-	1,157	812	1,790	56.0	72.1	46.1
1,000-4,999	-	2,701	1,883	4,261	D	60.6	26.0
5,000-9,999	-	4,039	3,039	4,903	17.0	17.0	13.4
10,000-24,999	-	7,890	6,675	10,377	15.3	15.7	12.3
25,000 or more	-	20,732	17,952	31,670	17.3	9.8	5.9

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: Rankings were based on total funds from all sources (company, federal, and other) spent for R&D and are determined separately for each industry and company size category. Consequently, industry and company size detail does not add to totals. The method used to assign industry classifications has changed; industry-specific estimates are not directly comparable with those for years prior to 2004. Excludes federally funded research and development centers. 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. 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 or DC (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations). 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: 2006.