

TABLE 36. Costs for industrial R&D performed in the United States, by industry and company size, by type of cost: 2007
(Percent distribution)

Industry and company size	NAICS codes	All R&D costs		Wages of R&D personnel	Employer's cost of fringe benefits for R&D personnel	Materials and supplies	R&D depreciation	Other costs
		\$millions	Percent					
All industries	21–23, 31–33, 42, 44–81	269,267	100.0	46.7	10.1	11.7	3.9	27.6
Manufacturing industries	31–33	187,477	100.0	43.4	10.0	13.2	4.1	29.3
Food	311	D	100.0	43.7	12.8	11.2	5.4	26.9
Beverage and tobacco products	312	217	100.0	47.4	17.2	7.7	4.8	22.8
Textiles, apparel, and leather	313–16	806	100.0	61.5	8.3	8.2	2.5	19.4
Wood products	321	D	100.0	53.6	7.2	16.0	1.5	21.7
Paper, printing, and support activities	322, 323	D	100.0	48.6 i	10.7 i	16.8 i	4.5 i	19.3 i
Petroleum and coal products	324	D	100.0	22.9 i	5.9 i	6.0 i	2.0 i	63.1 i
Chemicals	325	D	100.0	33.2	10.3	10.9	5.1	40.5
Basic chemicals	3251	3,234	100.0	43.3	6.7	9.9	7.3	32.8
Resin, synthetic rubber, fibers, and filament	3252	963	100.0	43.6	14.6	9.3	6.8	25.7
Pharmaceuticals and medicines	3254	D	100.0	31.2	10.2	11.1	4.7	42.9
Other chemicals	other 325	3,601	100.0	47.4	15.1	9.1	8.1	20.3
Plastics and rubber products	326	D	100.0	46.5	8.3	27.6	2.6	15.0
Nonmetallic mineral products	327	1,125	100.0	36.9	12.2	20.5	5.1	25.2
Primary metals	331	896	100.0	32.0	7.1	32.9	5.1	23.0
Fabricated metal products	332	1,709	100.0	60.1	12.8	11.2	2.0	14.0
Machinery	333	9,865	100.0	46.0	10.6	14.6	4.6	24.2
Computer and electronic products	334	58,599	100.0	50.5	10.3	10.8	4.6	23.7 i
Computers and peripheral equipment	3341	D	100.0	57.9	11.7	8.8 i	5.8	15.8 i
Communications equipment	3342	11,654	100.0	54.1	13.1	6.3 i	3.0	23.6 i
Semiconductor and other electronic components	3344	18,683	100.0	51.7	7.6	11.5	7.3	21.9
Navigational, measuring, electromedical, and control instruments	3345	20,438	100.0	45.1 i	10.9 i	13.7 i	2.8 i	27.5 i
Other computer and electronic products	other 334	D	100.0	41.2	6.6	6.3	5.3	40.5 i
Electrical equipment, appliances, and components	335	2,708	100.0	49.5	9.9	14.7	2.2	23.6
Transportation equipment	336	D	100.0	45.2	8.8 i	19.2	2.4	24.4
Motor vehicles, trailers, and parts	3361–63	D	100.0	46.8	9.7	19.0	3.9	20.7
Aerospace products and parts	3364	18,436	100.0	41.3	7.5 i	20.9	1.4	29.0
Other transportation equipment	other 336	D	100.0	54.8 i	11.0 i	13.8 i	1.3	19.1 i
Furniture and related products	337	582	100.0	56.0	8.9	11.8	1.3	22.0
Miscellaneous manufacturing	339	6,410	100.0	45.7	10.5	10.1	3.4	30.3
Medical equipment and supplies	3391	5,176	100.0	45.0	10.4	10.0	3.9	30.6
Other miscellaneous manufacturing	other 339	1,234	100.0	48.4	10.5	10.4	1.6	29.1 i

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Nonmanufacturing industries	21–23, 42, 44–81	81,790	100.0	54.5	10.2	8.1	3.2	24.0
Mining, extraction, and support activities	21	1,445	100.0	42.8	9.2	13.8	1.6	32.5
Utilities	22	235	100.0	35.3	7.3	11.3	5.7	40.4
Construction	23	D	100.0	46.7	10.0	33.1	1.0	9.1
Wholesale trade	42	2,294	100.0	53.3	7.8	8.5	3.0	27.5
Retail trade	44, 45	2,530	100.0	65.3	10.0	9.9	4.2	10.7
Transportation and warehousing	48, 49	D	100.0	58.6	12.9	5.9	2.5	20.1
Information	51	D	100.0	61.3	10.3	2.3	3.4	22.7
Publishing	511	20,900	100.0	59.8	11.8	1.8	3.5	23.1
Newspaper, periodical, book, and directory	5111	D	100.0	44.5	7.1	1.8	33.6	13.0
Software	5112	D	100.0	60.8	12.1	1.8	1.6	23.8
Telecommunications	517	D	100.0	58.6	8.9 i	4.9	1.7	25.9
Wired and wireless (except satellite) telecommunications carriers	5171, 5172	D	100.0	61.3	8.8 i	5.1	0.8	24.1
Satellite telecommunications	5174	D	100.0	5.3	0.7	7.2	0.1	86.7
Other telecommunications	other 517	D	100.0	51.1	9.6	4.3	4.3	30.7
Internet service providers, Web search portals, and data-processing services	518	D	100.0	71.6	4.3	2.7	4.0	17.4
Internet service providers and Web search portals	5181	2,351	100.0	72.4	3.5	3.8	6.0	14.3
Data-processing, hosting, and related services	5182	D	100.0	70.7	5.1	1.5	1.8	20.9
Other information	other 51	593	100.0	52.6	11.7 i	2.1 i	2.8 i	30.9 i
Finance, insurance, and real estate	52, 53	2,021	100.0	68.1	9.7	2.4	3.9	15.8
Professional, scientific, and technical services	54	40,533	100.0	48.6	10.5	11.9	3.2	25.8
Architectural, engineering, and related services	5413	5,882	100.0	43.6	16.5	14.8	2.0	23.1
Computer systems design and related services	5415	14,407	100.0	62.2	9.2	5.8	3.9	18.9
Scientific R&D services	5417	16,849	100.0	36.5	9.7	18.0	3.4	32.5
Other professional, scientific, and technical services	other 54	3,394	100.0	59.8	9.1	2.8	1.9	26.5 i
Health care services	621–23	1,280	100.0	51.3	7.9	11.8	1.0	28.0
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	1,857	100.0	63.0 i	9.8 i	7.7	0.9	18.6 i

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		\$millions	Percent					
Company size (employees)								
All companies	-	269,267	100.0	46.7	10.1	11.7	3.9	27.6
5-24	-	10,854	100.0	53.5	7.0	12.4	1.9	25.2
25-49	-	7,884	100.0	49.3	7.6	15.1	2.6	25.4
50-99	-	10,068	100.0	45.9	7.7	9.2	2.7	34.6
100-249	-	13,354	100.0	48.2	9.8	12.1	3.2	26.8
250-499	-	8,258	100.0	51.0	10.0	9.9	3.5	25.6
500-999	-	14,279	100.0	47.0	9.6	10.7	3.8	28.8
1,000-4,999	-	41,103	100.0	45.6	9.9	10.1	3.9	30.4
5,000-9,999	-	22,673	100.0	48.3	10.2	10.4	4.8	26.2
10,000-24,999	-	45,946	100.0	42.3	11.0	9.8	4.0	32.8
25,000 or more	-	94,848	100.0	47.5	10.6	13.7	4.1	24.1

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: Detail does not add to total due to rounding or suppression. 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 and DC (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations). Data for R&D by type of expense are collected only on Form RD-1, the questionnaire sent to larger R&D-performing companies. Consequently, the universe of companies may not be represented by the statistics in this table. 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: 2007.