

TABLE 7. Funds for and companies performing industrial R&D in the United States, by industry and company size, by R&D area: 2006

(Amount in millions of dollars)

Industry and company size	NAICS codes	All R&D		Software development		Materials synthesis and processing	
		Companies	Amount	Companies	Amount	Companies	Amount
All industries	21–23, 31–33, 42, 44–81	44,266	247,669	15,208	48,299	7,270	20,015
Manufacturing industries	31–33	18,677	171,814	2,906	10,720	5,197	15,295
Food	311	728	2,720	25	5	105	279
Beverage and tobacco products	312	39	547 i	0	0	15	D
Textiles, apparel, and leather	313–16	505	594	18	D	180	312
Wood products	321	329	195	6	*	153	D
Paper, printing, and support activities	322, 323	573	D	192	D	125	224
Petroleum and coal products	324	107	1,432	5	D	72	D
Chemicals	325	1,921	46,329	105	94	822	1,919
Basic chemicals	3251	270	2,152	11	D	150	582
Resin, synthetic rubber, fibers, and filament	3252	152	1,975	4	D	99	180
Pharmaceuticals and medicines	3254	483	38,901	58	66	130	761
Other chemicals	other 325	1,016	3,300	32	23	442	397
Plastics and rubber products	326	1,236	2,245	147	11	593	542
Nonmetallic mineral products	327	398	1,014	18	D	159	345
Primary metals	331	236	651	16	D	89	76
Fabricated metal products	332	2,417	1,499	268	45	445	125
Machinery	333	3,114	9,848	444	348	745	1,545
Computer and electronic products	334	2,795	56,773	1,161	4,920	604	7,303
Computers and peripheral equipment	3341	289	D	178	1,520 i	45	D
Communications equipment	3342	500	D	216	1,124	97	D
Semiconductor and other electronic components	3344	728	18,888	154	852	195	6,608
Navigational, measuring, electromedical, and control instruments	3345	1,103	18,300	551	1,349	246	400
Other computer and electronic products	other 334	176	D	63	76	21	D
Electrical equipment, appliances, and components	335	986	2,281	202	95	199	255
Transportation equipment	336	1,129	D	104	4,981	315	1,481
Motor vehicles, trailers, and parts	3361–63	783	D	73	D	272	D
Aerospace products and parts	3364	132	16,367	19	D	27	D
Other transportation equipment	other 336	214	D	12	136	17	D
Furniture and related products	337	421	D	26	D	65	D
Miscellaneous manufacturing	339	1,741	5,150	168	117	510	608
Medical equipment and supplies	3391	923	4,098	94	D	224	363
Other miscellaneous manufacturing	other 339	818	1,052	75	D	286	244

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		Companies	Amount	Companies	Amount	Companies	Amount
Nonmanufacturing industries	21–23, 42, 44–81	25,590	75,855	12,302	37,579	2,073	4,720
Mining, extraction, and support activities	21	142	D	4	223	17	246
Utilities	22	175	248	108	58	6	D
Construction	23	795	1,379	6	8 i	271	137
Wholesale trade	42	3,276	2,072	429	685	500	191
Retail trade	44, 45	577	D	269	655	21	D
Transportation and warehousing	48, 49	27	D	8	55	3	2
Information	51	3,138	26,883	2,592	20,781	14	D
Publishing	511	1,816	D	1,510	16,261	4	2
Newspaper, periodical, book, and directory	5111	235	D	96	255	1	D
Software	5112	1,581	D	1,414	16,006	3	D
Telecommunications	517	162	D	107	982	1	D
Wired and wireless (except satellite)							
telecommunications carriers	5171, 5172	63	D	42	883	1	D
Satellite telecommunications	5174	6	D	3	D	0	0
Other telecommunications	other 517	94	D	61	D	0	0
Internet service providers, Web search portals, and data-processing services	518	774	4,029	622	3,057	7	D
Internet service providers and Web search portals	5181	143	D	122	1,187	4	*
Data-processing, hosting, and related services	5182	630	D	500	1,870	3	D
Other information	other 51	385	732	353	480	2	D
Finance, insurance, and real estate	52, 53	1,021	1,969	796	1,286	4	D
Professional, scientific, and technical services	54	10,856	38,049	6,266	12,864	718	3,679
Architectural, engineering, and related services	5413	2,444	6,579	707	555	234	D
Computer systems design and related services	5415	5,316	14,841	4,249	9,864	172	2,576
Scientific R&D services	5417	2,268	14,525	515	680	300	938
Other professional, scientific, and technical services	other 54	829	2,105	795	1,766	12	D
Health care services	621–23	1,945	992	503	17	4	4
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	3,637	1,479	1,319	947	516	D

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(Amount in millions of dollars)

Industry and company size	NAICS codes	All R&D		Software development		Materials synthesis and processing	
		Companies	Amount	Companies	Amount	Companies	Amount
Company size (employees)							
All companies	-	44,266	247,669	15,208	48,299	7,270	20,015
5-24	-	21,153	7,207	7,908	2,473	3,174	710
25-49	-	6,815	D	2,558	1,828	1,019	563
50-99	-	7,035	9,064	2,498	3,538	1,180	703
100-249	-	4,372	13,306	1,175	3,797	949	1,159
250-499	-	1,941	D	493	2,109	391	988
500-999	-	1,441	13,360	273	2,525	216	967
1,000-4,999	-	1,065	37,866	194	6,389	242	3,329
5,000-9,999	-	195	20,434	33	4,893	42	773
10,000-24,999	-	145	37,865	38	5,126	33	1,589
25,000 or more	-	105	92,925	37	15,621	23	9,234

TABLE 7. Funds for and companies performing industrial R&D in the United States, by industry and company size, by R&D area: 2006

(Amount in millions of dollars)

Industry and company size	NAICS codes	Other areas		Undistributed R&D	
		Companies	Amount	Companies	Amount
All industries	21–23, 31–33, 42, 44–81	22,624	102,426	7,107	76,928
Manufacturing industries	31–33	11,388	83,108	2,697	62,691
Food	311	475	1,830	190	606
Beverage and tobacco products	312	22	D	5	414
Textiles, apparel, and leather	313–16	268	D	71	72
Wood products	321	113	D	90	86
Paper, printing, and support activities	322, 323	281	D	31	2,116
Petroleum and coal products	324	45	479	2	769
Chemicals	325	1,186	26,874	214	17,442
Basic chemicals	3251	135	D	28	601
Resin, synthetic rubber, fibers, and filament	3252	67	D	10	1,690
Pharmaceuticals and medicines	3254	407	24,439	69	13,636
Other chemicals	other 325	578	1,366	107	1,515
Plastics and rubber products	326	737	1,431	44	261
Nonmetallic mineral products	327	208	D	88	319
Primary metals	331	130	D	24	339
Fabricated metal products	332	1,535	1,066 i	431	263
Machinery	333	1,963	6,024	465	1,931
Computer and electronic products	334	1,631	16,099	403	28,451
Computers and peripheral equipment	3341	144	D	42	4,222
Communications equipment	3342	239	2,840	69	6,969
Semiconductor and other electronic components	3344	421	7,256 i	145	4,173
Navigational, measuring, electromedical, and control instruments	3345	727	3,836	117	12,714
Other computer and electronic products	other 334	101	D	29	373
Electrical equipment, appliances, and components	335	637	1,563	138	369
Transportation equipment	336	674	D	186	7,197
Motor vehicles, trailers, and parts	3361–63	423	D	120	5,304
Aerospace products and parts	3364	100	D	16	1,782
Other transportation equipment	other 336	151	D	51	111
Furniture and related products	337	362	D	18	67
Miscellaneous manufacturing	339	1,119	2,436	297	1,989
Medical equipment and supplies	3391	710	D	150	1,726
Other miscellaneous manufacturing	other 339	410	D	147	263

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		Companies	Amount	Companies	Amount
Nonmanufacturing industries	21–23, 42, 44–81	11,236	19,318	4,410	14,237
Mining, extraction, and support activities	21	127	D	11	46
Utilities	22	47	D	26	11
Construction	23	522	264	4	971
Wholesale trade	42	2,261	1,008	351	188
Retail trade	44, 45	531	D	22	2
Transportation and warehousing	48, 49	15	D	4	180
Information	51	309	D	318	4,186
Publishing	511	188	D	164	2,902
Newspaper, periodical, book, and directory	5111	169	D	2	13
Software	5112	19	D	162	2,889
Telecommunications	517	59	D	7	717
Wired and wireless (except satellite)					
telecommunications carriers	5171, 5172	20	D	5	543
Satellite telecommunications	5174	5	D	0	0
Other telecommunications	other 517	33	D	2	174
Internet service providers, Web search portals, and data-processing services	518	37	D	130	501
Internet service providers and Web search portals	5181	5	D	17	325
Data-processing, hosting, and related services	5182	32	D	113	176
Other information	other 51	25	D	17	66
Finance, insurance, and real estate	52, 53	118	D	113	312
Professional, scientific, and technical services	54	3,808	13,367	1,785	8,140
Architectural, engineering, and related services	5413	1,587	D	539	2,351
Computer systems design and related services	5415	427	1,006	848	1,395
Scientific R&D services	5417	1,770	8,576	384	4,331
Other professional, scientific, and technical services	other 54	24	D	14	63
Health care services	621–23	1,931	953	263	17
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	1,567	D	1,513	185

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Industry and company size	NAICS codes	Other areas		Other areas	
		Companies	Amount	Companies	Amount
Company size (employees)					
All companies	-	22,624	102,426	7,107	76,928
5-24	-	10,305	3,058	3,788	967
25-49	-	3,392	D	996	1,494
50-99	-	3,598	3,887	840	935
100-249	-	2,530	6,087	426	2,263
250-499	-	1,051	D	401	890
500-999	-	791	7,346	349	2,522
1,000-4,999	-	678	18,921	182	9,227
5,000-9,999	-	121	9,903 ⁱ	51	4,865
10,000-24,999	-	99	16,966	38	14,183
25,000 or more	-	59	D	37	39,581

* = amount < \$500,000; 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 for money amounts because of 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. Detail does not add to total for number of companies because categories are not mutually exclusive. 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.