

TABLE 37. Funds for and companies performing industrial R&D in the United States, by industry and company size, by R&D area: 2007

(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	43,419	269,267	16,200	55,602	9,126	24,290
Manufacturing industries	31–33	18,872	187,477	4,143	12,001	5,615	18,725
Food	311	828	D	69	D	199	428
Beverage and tobacco products	312	39	217	1	D	12	14
Textiles, apparel, and leather	313–16	379	806	24	31	144	310
Wood products	321	157	D	21	D	42	51
Paper, printing, and support activities	322, 323	797	D	149	29	240	245
Petroleum and coal products	324	193	D	3	D	38	63
Chemicals	325	2,445	D	81	D	1,019	4,218
Basic chemicals	3251	321	3,234	29	D	175	698
Resin, synthetic rubber, fibers, and filament	3252	221	963	2	D	178	289
Pharmaceuticals and medicines	3254	895	D	19	D	107	2,106
Other chemicals	other 325	1,008	3,601	31	54	559	1,125
Plastics and rubber products	326	1,255	D	221	D	508	504
Nonmetallic mineral products	327	406	1,125	118	D	245	437
Primary metals	331	306	896	114	D	195	262
Fabricated metal products	332	1,672	1,709	373	78	532	280
Machinery	333	2,711	9,865	547	D	746	D
Computer and electronic products	334	3,236	58,599	1,790	5,776	933	7,891
Computers and peripheral equipment	3341	229	D	157	1,444	31	D
Communications equipment	3342	457	11,654	269	1,306	48	D
Semiconductor and other electronic components	3344	637	18,683	195	D	144	6,665
Navigational, measuring, electromedical, and control instruments	3345	1,798	20,438	1,134	2,530	701	900
Other computer and electronic products	other 334	114	D	34	D	9	D
Electrical equipment, appliances, and components	335	788	2,708	162	85	137	227
Transportation equipment	336	1,265	D	95	D	250	D
Motor vehicles, trailers, and parts	3361–63	819	D	57	D	193	709
Aerospace products and parts	3364	242	18,436	21	D	27	D
Other transportation equipment	other 336	203	D	18	71	30	83
Furniture and related products	337	441	582	108	D	84	80
Miscellaneous manufacturing	339	1,954	6,410	268	160	292	681
Medical equipment and supplies	3391	969	5,176	95	86	163	472
Other miscellaneous manufacturing	other 339	985	1,234	173	74	129	209

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		Companies	Amount	Companies	Amount	Companies	Amount
Nonmanufacturing industries	21–23, 42, 44–81	24,547	81,790	12,057	43,601	3,511	5,565
Mining, extraction, and support activities	21	216	1,445	24	286	131	349
Utilities	22	43	235	10	D	9	D
Construction	23	538	D	260	D	265	144
Wholesale trade	42	3,648	2,294	558	506	1,011	481
Retail trade	44, 45	1,587	2,530	539	1,333	768	464
Transportation and warehousing	48, 49	281	D	10	76	255	D
Information	51	2,423	D	2,152	23,559	25	D
Publishing	511	1,408	20,900	1,305	17,514	3	D
Newspaper, periodical, book, and directory	5111	104	D	40	141	1	D
Software	5112	1,305	D	1,265	17,373	2	D
Telecommunications	517	237	D	182	2,024 i	12	D
Wired and wireless (except satellite)							
telecommunications carriers	5171, 5172	98	D	86	1,448 i	0	0
Satellite telecommunications	5174	4	D	2	D	0	0
Other telecommunications	other 517	135	D	94	D	12	D
Internet service providers, Web search portals, and data-processing services	518	562	D	533	3,740	8	D
Internet service providers and Web search portals	5181	172	2,351	154	D	5	1
Data-processing, hosting, and related services	5182	390	D	379	D	3	D
Other information	other 51	216	593	131	282	2	D
Finance, insurance, and real estate	52, 53	331	2,021	49	1,252	4	D
Professional, scientific, and technical services	54	11,146	40,533	7,636	15,473	764	3,993
Architectural, engineering, and related services	5413	1,996	5,882	989	667	155	D
Computer systems design and related services	5415	4,252	14,407	3,850	9,608	161	2,549
Scientific R&D services	5417	1,851	16,849	383	3,580	432	1,258
Other professional, scientific, and technical services	other 54	3,047	3,394	2,415	1,619	15	D
Health care services	621–23	2,849	1,280	256	5	5	14
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	1,484	1,857	564	1,044 i	274	47

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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	-	43,419	269,267	16,200	55,602	9,126	24,290
5-24	-	21,701	10,854	9,327	3,178	4,137	1,366
25-49	-	6,852	7,884	2,470	2,375	1,291	614
50-99	-	5,960	10,068	2,009	2,164	1,203	904
100-249	-	4,309	13,354	1,309	3,417	1,397	1,210
250-499	-	1,809	8,258	442	2,130	489	967
500-999	-	1,275	14,279	295	3,047	209	1,066
1,000-4,999	-	1,039	41,103	224	8,002	273	5,227
5,000-9,999	-	211	22,673	39	5,521	51	1,258
10,000-24,999	-	158	45,946	42	4,931	48	2,760
25,000 or more	-	106	94,848	43	20,838	27	8,917

TABLE 37. Funds for and companies performing industrial R&D in the United States, by industry and company size, by R&D area: 2007

(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	22,081	127,238	5,342	62,138
Manufacturing industries	31-33	11,997	100,506	2,237	56,246
Food	311	584	2,051	138	228
Beverage and tobacco products	312	29	D	4	26
Textiles, apparel, and leather	313-16	250	349	23	116
Wood products	321	94	101	25	49
Paper, printing, and support activities	322, 323	431	D	72	1,686
Petroleum and coal products	324	28	650	133	1,004
Chemicals	325	1,450	38,957	278	12,336
Basic chemicals	3251	223	D	15	1,331
Resin, synthetic rubber, fibers, and filament	3252	56	D	11	37
Pharmaceuticals and medicines	3254	760	35,060	88	10,608
Other chemicals	other 325	410	2,063	164	359
Plastics and rubber products	326	943	D	87	305
Nonmetallic mineral products	327	144	D	57	259
Primary metals	331	220	D	10	64
Fabricated metal products	332	752	907	280	445
Machinery	333	2,130	6,152	137	1,569
Computer and electronic products	334	1,838	20,076	257	24,855
Computers and peripheral equipment	3341	153	D	18	2,790
Communications equipment	3342	271	D	59	7,467
Semiconductor and other electronic components	3344	418	D	40	3,707
Navigational, measuring, electromedical, and control instruments	3345	925	6,484	118	10,524
Other computer and electronic products	other 334	71	D	22	367
Electrical equipment, appliances, and components	335	487	2,028	143	367
Transportation equipment	336	950	D	127	11,552
Motor vehicles, trailers, and parts	3361-63	581	D	70	5,502
Aerospace products and parts	3364	213	D	16	2,095
Other transportation equipment	other 336	156	D	41	3,955
Furniture and related products	337	346	D	32	28
Miscellaneous manufacturing	339	1,323	4,211	433	1,358
Medical equipment and supplies	3391	659	3,379	234	1,238
Other miscellaneous manufacturing	other 339	663	832	199	120

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		Companies	Amount	Companies	Amount
Nonmanufacturing industries	21–23, 42, 44–81	10,083	26,732	3,105	5,892
Mining, extraction, and support activities	21	88	800	3	10
Utilities	22	36	D	3	10
Construction	23	524	201	1	2
Wholesale trade	42	2,306	1,253	248	54
Retail trade	44, 45	538	594	260	138
Transportation and warehousing	48, 49	17	D	2	31
Information	51	273	3,061	100	2,402
Publishing	511	81	D	56	2,245
Newspaper, periodical, book, and directory	5111	64	D	3	50
Software	5112	17	D	53	2,195
Telecommunications	517	65	D	7	30
Wired and wireless (except satellite)					
telecommunications carriers	5171, 5172	25	D	6	29
Satellite telecommunications	5174	4	D	0	0
Other telecommunications	other 517	36	D	1	1
Internet service providers, Web search portals, and data-processing services	518	48	D	28	86
Internet service providers and Web search portals	5181	24	D	23	21
Data-processing, hosting, and related services	5182	24	D	5	65
Other information	other 51	79	D	9	40
Finance, insurance, and real estate	52, 53	26	D	260	131
Professional, scientific, and technical services	54	4,024	18,267	462	2,800
Architectural, engineering, and related services	5413	1,496	D	275	1,317
Computer systems design and related services	5415	543	1,736	59	514
Scientific R&D services	5417	1,351	11,091	123	919
Other professional, scientific, and technical services	other 54	634	D	5	49
Health care services	621–23	1,589	972	1,506	289
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	661	740	260	25

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Industry and company size	NAICS codes	Other areas		Undistributed R&D	
		Companies	Amount	Companies	Amount
Company size (employees)					
All companies	-	22,081	127,238	5,342	62,138
5-24	-	9,501	5,098	2,946	1,212
25-49	-	3,301	4,462	1,028	433
50-99	-	3,383	6,580	689	420
100-249	-	2,922	7,653	223	1,074
250-499	-	1,165	4,681	84	481
500-999	-	783	8,445	153	1,722
1,000-4,999	-	683	21,579	124	6,295
5,000-9,999	-	146	11,490	38	4,404
10,000-24,999	-	128	26,672	26	11,583
25,000 or more	-	68	30,579	30	34,515

* = 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 and 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: 2007.