

TABLE A-14. Funds for and number of companies performing industrial basic research, applied research, and development in the United States and funds not distributed, by industry and company size, by source of funds: 2007

(Millions of dollars)

Industry and company size	NAICS codes	All industrial R&D				Basic research			
		Companies	All funds	Federal	Company and other	Companies	All funds	Federal	Company and other
All industries	21-23, 31-33, 42, 44-81	43,419	269,267	26,585	242,682	6,085	9,124	1,573	7,551
Manufacturing industries	31-33	18,872	187,477	18,170	169,307	2,283	7,287	1,138	6,149
Food	311	828	D	D	2,722	58	D	D	D
Beverage and tobacco products	312	39	217	0	217	3	3	0	3
Textiles, apparel, and leather	313-16	379	806	10	796	26	14	D	D
Wood products	321	157	D	D	202	49	D	0	D
Paper, printing, and support activities	322, 323	797	D	D	2,596	36	D	0	D
Petroleum and coal products	324	193	D	D	1,718	15	D	D	D
Chemicals	325	2,445	D	D	55,319	306	D	D	3,708
Basic chemicals	3251	321	3,234	76	3,158	65	243	D	D
Resin, synthetic rubber, fibers, and filament	3252	221	963	12	951	32	87	D	D
Pharmaceuticals and medicines	3254	895	D	D	47,624	84	D	D	3,176
Other chemicals	other 325	1,008	3,601	14	3,587	125	208	4	204
Plastics and rubber products	326	1,255	D	D	2,072	112	D	D	D
Nonmetallic mineral products	327	406	1,125	13	1,112	44	82	D	D
Primary metals	331	306	896	10	886	119	44	*	44
Fabricated metal products	332	1,672	1,709	115 i	1,594	212	D	0	D
Machinery	333	2,711	9,865	69	9,796	322	64	1	63
Computer and electronic products	334	3,236	58,599	8,838	49,760	511	1,445	D	D
Computers and peripheral equipment	3341	229	D	D	6,869	30	D	D	D
Communications equipment	3342	457	11,654	219	11,435	22	187 i	D	D
Semiconductor and other electronic components	3344	637	18,683	368	18,315	64	373 i	17	355 i
Navigational, measuring, electromedical, and control instruments	3345	1,798	20,438	8,176	12,262	377	717	D	D
Other computer and electronic products	other 334	114	D	D	879	18	D	D	D
Electrical equipment, appliances, and components	335	788	2,708	90	2,617	73	48	D	D
Transportation equipment	336	1,265	D	D	30,974	79	D	D	D
Motor vehicles, trailers, and parts	3361-63	819	D	D	16,034	40	D	D	D
Aerospace products and parts	3364	242	18,436	5,040	13,397	14	562	145	417
Other transportation equipment	other 336	203	D	D	1,543	24	D	D	119
Furniture and related products	337	441	582	1	581	33	5	0	5
Miscellaneous manufacturing	339	1,954	6,410	66	6,344	285	186	4	183
Medical equipment and supplies	3391	969	5,176	60	5,116	152	157	D	D
Other miscellaneous manufacturing	other 339	985	1,234	6	1,228	134	30	D	D

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		Companies	All funds	Federal	Company and other	Companies	All funds	Federal	Company and other
Nonmanufacturing industries	21-23, 42, 44-81	24,547	81,790	8,415	73,375	3,802	1,837	435	1,402
Mining, extraction, and support activities	21	216	1,445	9	1,436	20	36	0	36
Utilities	22	43	235	35	200	8	4	D	D
Construction	23	538	D	D	386	254	D	D	D
Wholesale Trade	42	3,648	2,294	16	2,277	27	38	D	D
Retail trade	44, 45	1,587	2,530	12	2,517	256	7	0	7
Transportation and warehousing	48, 49	281	D	D	166	5	D	0	D
Information	51	2,423	D	D	28,767	145	D	D	D
Publishing	511	1,408	20,900	22	20,878	75	50	D	D
Newspaper, periodical, book, and directory	5111	104	D	D	1,245	3	D	0	D
Software	5112	1,305	D	D	19,634	72	D	D	46
Telecommunications	517	237	D	D	3,107	5	D	0	D
Wired and wireless (except satellite)									
telecommunications carriers	5171, 5172	98	D	D	2,320	2	D	0	D
Satellite telecommunications	5174	4	D	0	D	0	0	0	0
Other telecommunications	other 517	135	D	0	D	3	D	0	D
Internet service providers, Web search portals, and data-processing services	518	562	D	D	4,190	49	D	0	D
Internet service providers and Web search portals	5181	172	2,351	0	2,351	26	D	0	D
Data-processing, hosting, and related services	5182	390	D	D	1,838	23	D	0	D
Other information	other 51	216	593	0	593	16	3	0	3
Finance, insurance, and real estate	52, 53	331	2,021	0	2,021	11	38	0	38
Professional, scientific, and technical services	54	11,146	40,533	7,608	32,924	2,056	1,382	422	960
Architectural, engineering, and related services	5413	1,996	5,882	1,885	3,997	115	123	80	42
Computer systems design and related services	5415	4,252	14,407	804	13,603	612	452	128	324
Scientific R&D services	5417	1,851	16,849	4,831	12,017	217	597	200	397
Other professional, scientific, and technical services	other 54	3,047	3,394	87	3,307	1,112	210	14	197
Health care services	621-23	2,849	1,280	7	1,274	507	132	D	D
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	1,484	1,857	450	1,406	513	13	D	D

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(Millions of dollars)

Industry and company size	NAICS codes	All industrial R&D				Basic research			
		Companies	All funds	Federal	Company and other	Companies	All funds	Federal	Company and other
Company size (employees)									
All companies	-	43,419	269,267	26,585	242,682	6,085	9,124	1,573	7,551
5-24	-	21,701	10,854	1,671	9,183	2,803	418	83	334
25-49	-	6,852	7,884	615	7,269	871	250	69	181
50-99	-	5,960	10,068	760	9,308	1,149	439	115	324
100-249	-	4,309	13,354	1,264	12,090	726	492	171	321
250-499	-	1,809	8,258	556	7,702	141	172	15 i	157
500-999	-	1,275	14,279	662	13,617	109	464	85	379
1,000-4,999	-	1,039	41,103	1,287	39,816	167	948	13	935
5,000-9,999	-	211	22,673	1,516	21,157	42	586 i	19	567 i
10,000-24,999	-	158	45,946	1,930	44,016	45	2,711	373	2,339
25,000 or more	-	106	94,848	16,325	78,523	32	2,644	631	2,014

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Industry and company size	NAICS codes	Applied research				Development			
		Companies	All funds	Federal	Company and other	Companies	All funds	Federal	Company and other
All industries	21–23, 31–33, 42, 44–81	18,029	49,036	6,887	42,149	34,914	172,319	9,729	162,589
Manufacturing industries	31–33	7,717	32,288	3,187	29,101	15,853	115,415	6,875	108,539
Food	311	289	504	D	D	722	1,835	0	1,835
Beverage and tobacco products	312	21	73	0	73	33	96	0	96
Textiles, apparel, and leather	313–16	105	42	D	D	351	674	D	D
Wood products	321	76	D	0	D	136	D	D	D
Paper, printing, and support activities	322, 323	263	D	0	D	563	795	D	D
Petroleum and coal products	324	42	D	0	D	46	D	0	D
Chemicals	325	1,119	11,887	246	11,641	2,078	36,106	90	36,017
Basic chemicals	3251	260	1,288	D	D	279	1,641	26	1,615
Resin, synthetic rubber, fibers, and filament	3252	81	395	D	D	204	442	10	432
Pharmaceuticals and medicines	3254	269	9,157	193	8,964	725	31,973	46	31,927
Other chemicals	other 325	509	1,048	3	1,045	870	2,050	8	2,043
Plastics and rubber products	326	420	D	D	D	1,152	1,419	D	D
Nonmetallic mineral products	327	171	368	D	D	214	608	D	D
Primary metals	331	204	306	0	306	263	507	10	497
Fabricated metal products	332	464	D	D	D	1,557	1,120	D	D
Machinery	333	1,316	1,408	28	1,380	2,339	7,615	39	7,576
Computer and electronic products	334	1,603	9,570	618	8,952	2,655	31,270	D	D
Computers and peripheral equipment	3341	99	838 i	D	D	189	5,802	D	D
Communications equipment	3342	166	2,020	D	D	384	6,119 i	63	6,056 i
Semiconductor and other electronic components	3344	261	4,194	64	4,130	541	11,543	285	11,258
Navigational, measuring, electromedical, and control instruments	3345	1,027	2,458	411	2,047	1,450	7,403	D	D
Other computer and electronic products	other 334	50	60	D	D	91	403	D	D
Electrical equipment, appliances, and components	335	217	452	D	D	671	1,910	75	1,835
Transportation equipment	336	344	5,150	2,229	2,921	1,057	26,753	D	D
Motor vehicles, trailers, and parts	3361–63	256	D	D	D	643	9,237	D	D
Aerospace products and parts	3364	45	3,616	2,143	1,473	214	13,402	2,029	11,373
Other transportation equipment	other 336	43	D	D	D	199	4,114	D	D
Furniture and related products	337	210	109	*	108	402	437	1	436
Miscellaneous manufacturing	339	854	1,119	42	1,078	1,614	4,047	21	4,027
Medical equipment and supplies	3391	487	973	D	D	751	3,095	18	3,077
Other miscellaneous manufacturing	other 339	367	147	D	D	863	952	2	950

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		Companies	All funds	Federal	Company and other	Companies	All funds	Federal	Company and other
Nonmanufacturing industries	21–23, 42, 44–81	10,312	16,748	3,700	13,048	19,061	56,904	2,854	54,050
Mining, extraction, and support activities	21	94	450	0	450	199	940	7	933
Utilities	22	22	46	D	D	28	156	D	D
Construction	23	263	D	D	D	533	262	0	262
Wholesale Trade	42	1,446	333	D	D	3,079	1,865	D	D
Retail trade	44, 45	777	396	12	383	1,076	2,110	0	2,110
Transportation and warehousing	48, 49	261	D	D	D	277	113	0	113
Information	51	663	D	D	2,738	2,145	23,145	D	D
Publishing	511	333	2,063	D	D	1,254	15,989	D	D
Newspaper, periodical, book, and directory	5111	30	D	D	D	72	D	0	D
Software	5112	303	D	D	2,028	1,182	D	D	14,833
Telecommunications	517	61	144	0	144	232	D	D	D
Wired and wireless (except satellite)									
telecommunications carriers	5171, 5172	15	D	0	D	94	D	D	D
Satellite telecommunications	5174	1	D	0	D	4	D	0	D
Other telecommunications	other 517	46	D	0	D	134	729	0	729
Internet service providers, Web search portals, and data-processing services	518	170	D	D	D	471	3,917	D	D
Internet service providers and Web search portals	5181	38	D	0	D	166	2,298	0	2,298
Data-processing, hosting, and related services	5182	132	D	D	D	305	1,620	D	D
Other information	other 51	98	D	0	D	188	D	0	D
Finance, insurance, and real estate	52, 53	24	148	0	148	318	1,740	0	1,740
Professional, scientific, and technical services	54	5,180	11,957	3,645	8,312	9,144	24,272	2,119	22,153
Architectural, engineering, and related services	5413	903	878	152	726	1,605	3,735	613	3,123
Computer systems design and related services	5415	1,088	1,382	278	1,104	3,868	12,000	380	11,619
Scientific R&D services	5417	951	7,988	3,205	4,784	1,141	7,098	1,066	6,032
Other professional, scientific, and technical services	other 54	2,238	1,709	10	1,699	2,530	1,439	60	1,378
Health care services	621–23	1,042	460	D	D	799	576	1	575
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	540	85	D	D	1,463	1,724	D	D

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		Companies	All funds	Federal	Company and other	Companies	All funds	Federal	Company and other
Company size (employees)									
All companies	-	18,029	49,036	6,887	42,149	34,914	172,319	9,729	162,589
5-24	-	9,025	2,839	546	2,293	16,742	6,805	964	5,841
25-49	-	2,536	2,095	263	1,833	5,799	5,241	252	4,989
50-99	-	2,869	3,535	224	3,311	4,819	5,544	234	5,310
100-249	-	1,797	2,815	209	2,607	3,875	9,097	786	8,311
250-499	-	598	1,601	183	1,418	1,423	5,897	357	5,539
500-999	-	561	3,447	235	3,212	1,028	9,181	284	8,897
1,000-4,999	-	431	7,518	593	6,925	849	27,255	448	26,806
5,000-9,999	-	83	4,725	57	4,668	170	15,320	231	15,089
10,000-24,999	-	81	8,108	471	7,637	126	25,592	1,083 i	24,509
25,000 or more	-	49	12,353	4,107	8,246	83	62,387	5,090	57,297

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Industry and company size	NAICS codes	Companies	Expenditures not distributed ^b		
			All funds	Federal	Company and other
All industries	21–23, 31–33, 42, 44–81	2,633	38,788	8,396	30,392
Manufacturing industries	31–33	1,112	32,488	6,970	25,517
Food	311	77	244	0	244
Beverage and tobacco products	312	4	45	0	45
Textiles, apparel, and leather	313–16	16	76	0	76
Wood products	321	6	6	0	6
Paper, printing, and support activities	322, 323	107	1,646	12	1,633
Petroleum and coal products	324	124	1,004	1	1,003
Chemicals	325	139	3,954	0	3,954
Basic chemicals	3251	3	62	0	62
Resin, synthetic rubber, fibers, and filament	3252	5	39	0	39
Pharmaceuticals and medicines	3254	65	3,557	0	3,557
Other chemicals	other 325	66	295	0	295
Plastics and rubber products	326	32	287	8	279
Nonmetallic mineral products	327	108	67	0	67
Primary metals	331	5	40	0	40
Fabricated metal products	332	17	318	100	217
Machinery	333	64	778	1	777
Computer and electronic products	334	166	16,313	6,090	10,223
Computers and peripheral equipment	3341	8	165	53	113
Communications equipment	3342	23	3,329	3	3,326
Semiconductor and other electronic components	3344	31	2,574	2	2,572
Navigational, measuring, electromedical, and control instruments	3345	96	9,860	6,033	3,827
Other computer and electronic products	other 334	8	385	0	385
Electrical equipment, appliances, and components	335	62	297	10	287
Transportation equipment	336	33	6,327	748	5,579
Motor vehicles, trailers, and parts	3361–63	17	5,467	25	5,442
Aerospace products and parts	3364	15	857	723	134
Other transportation equipment	other 336	1	3	0	3
Furniture and related products	337	30	30	0	30
Miscellaneous manufacturing	339	121	1,057	0	1,057
Medical equipment and supplies	3391	46	951	0	951
Other miscellaneous manufacturing	other 339	75	106	0	106

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			All funds	Federal	Company and other
Nonmanufacturing industries	21–23, 42, 44–81	1,522	6,301	1,426	4,875
Mining, extraction, and support activities	21	7	18	1	17
Utilities	22	6	29	0	29
Construction	23	1	*	0	*
Wholesale Trade	42	22	57	*	57
Retail trade	44, 45	2	16	0	16
Transportation and warehousing	48, 49	3	32	0	32
Information	51	49	2,984	0	2,984
Publishing	511	37	2,798	0	2,798
Newspaper, periodical, book, and directory	5111	4	71	0	71
Software	5112	33	2,727	0	2,727
Telecommunications	517	2	30	0	30
Wired and wireless (except satellite)					
telecommunications carriers	5171, 5172	1	14	0	14
Satellite telecommunications	5174	0	0	0	0
Other telecommunications	other 517	1	16	0	16
Internet service providers, Web search portals, and data-processing services	518	9	126	0	126
Internet service providers and Web search portals	5181	1	20	0	20
Data-processing, hosting, and related services	5182	8	106	0	106
Other information	other 51	1	30	0	30
Finance, insurance, and real estate	52, 53	9	94	0	94
Professional, scientific, and technical services	54	399	2,922	1,422	1,499
Architectural, engineering, and related services	5413	26	1,146	1,040	106
Computer systems design and related services	5415	132	574	18	556
Scientific R&D services	5417	236	1,165	361	804
Other professional, scientific, and technical services	other 54	6	36	3	33
Health care services	621–23	1,014	113	1	112
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	9	36	1	35

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Industry and company size	NAICS codes	Expenditures not distributed ^b			
		Companies	All funds	Federal	Company and other
Company size (employees)					
All companies	-	2,633	38,788	8,396	30,392
5-24	-	1,454	792	77	715
25-49	-	512	297	31	266
50-99	-	135	550	188	362
100-249	-	125	950	98	852
250-499	-	165	589	1	588
500-999	-	61	1,188	58	1,129
1,000-4,999	-	108	5,382	233	5,150
5,000-9,999	-	25	2,041	1,208	832
10,000-24,999	-	23	9,535	4	9,531
25,000 or more	-	24	17,464	6,498	10,966

* = 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.

^b The amounts of undistributed R&D are distributed among basic research, applied research, and development in table 58.

NOTES: 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. Some company respondents did not distribute their R&D among the three character of work categories, basic research, applied research, and development. The data from these companies is included in the expenditures not distributed columns of this table. During statistical processing algorithms were used to approximate the distribution and the resulting statistics are in table 58. 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.