

TABLE A-7. 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: 2006

(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	44,266	247,669	24,304	223,365	4,541	7,078	1,037	6,042
Manufacturing industries	31–33	18,677	171,814	16,584	155,230	1,931	5,266	661	4,605
Food	311	728	2,720	4	2,716	120	140	D	D
Beverage and tobacco products	312	39	547 i	0	547 i	12	1	0	1
Textiles, apparel, and leather	313–16	505	594	11	583	55	D	0	D
Wood products	321	329	195	2	192	31	7 i	0	7 i
Paper, printing, and support activities	322, 323	573	D	D	2,793	30	13	0	13
Petroleum and coal products	324	107	1,432	1	1,431	20	D	*	D
Chemicals	325	1,921	46,329	211	46,119	264	2,333	D	D
Basic chemicals	3251	270	2,152	98	2,054	55	151	D	D
Resin, synthetic rubber, fibers, and filament	3252	152	1,975	13	1,963	20	163	0	163
Pharmaceuticals and medicines	3254	483	38,901	88	38,813	39	1,904	D	D
Other chemicals	other 325	1,016	3,300	12	3,288	150	116	*	115
Plastics and rubber products	326	1,236	2,245	27	2,217	160	D	D	D
Nonmetallic mineral products	327	398	1,014	78	936	71	D	D	63
Primary metals	331	236	651	13	638	11	7	D	D
Fabricated metal products	332	2,417	1,499	67 i	1,432	138	12	0	12
Machinery	333	3,114	9,848	106	9,743	265	79	17	62
Computer and electronic products	334	2,795	56,773	8,522	48,251	271	862	35	827
Computers and peripheral equipment	3341	289	D	D	7,289	20	D	D	D
Communications equipment	3342	500	D	D	10,911	48	D	D	D
Semiconductor and other electronic components	3344	728	18,888	354	18,534	123	473	14	459
Navigational, measuring, electromedical, and control instruments	3345	1,103	18,300	7,860	10,440	67	127	D	D
Other computer and electronic products	other 334	176	D	D	1,076	13	D	0	D
Electrical equipment, appliances, and components	335	986	2,281	66	2,215	58	D	D	D
Transportation equipment	336	1,129	D	D	30,010	83	D	D	D
Motor vehicles, trailers, and parts	3361–63	783	D	D	16,562	43	D	D	D
Aerospace products and parts	3364	132	16,367	4,372	11,995	16	580	143	437
Other transportation equipment	other 336	214	D	D	1,453	24	D	D	D
Furniture and related products	337	421	D	D	371	38	6	0	6
Miscellaneous manufacturing	339	1,741	5,150	114	5,036	304	148 i	5 i	143 i
Medical equipment and supplies	3391	923	4,098	101	3,998	108	125 i	D	D
Other miscellaneous manufacturing	other 339	818	1,052	14	1,038	196	24	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	25,590	75,855	7,719	68,135	2,610	1,812	375	1,437
Mining, extraction, and support activities	21	142	D	D	1,123	6	D	0	D
Utilities	22	175	248	34	214	6	2	D	D
Construction	23	795	1,379	12	1,368	9	D	D	D
Wholesale Trade	42	3,276	2,072	18	2,054	375	17	D	D
Retail trade	44, 45	577	D	D	1,372	4	D	0	D
Transportation and warehousing	48, 49	27	D	D	277	4	D	0	D
Information	51	3,138	26,883	136	26,748	200	154	D	D
Publishing	511	1,816	D	D	19,946	169	D	D	47
Newspaper, periodical, book, and directory	5111	235	D	D	992	3	D	0	D
Software	5112	1,581	D	D	18,953	166	D	D	D
Telecommunications	517	162	D	D	2,135	8	D	0	D
Wired and wireless (except satellite) telecommunications carriers	5171, 5172	63	D	D	1,688	5	D	0	D
Satellite telecommunications	5174	6	D	0	D	0	0	0	0
Other telecommunications	other 517	94	D	0	D	3	D	0	D
Internet service providers, Web search portals, and data-processing services	518	774	4,029	93	3,936	20	D	D	D
Internet service providers and Web search portals	5181	143	D	0	D	13	D	0	D
Data-processing, hosting, and related services	5182	630	D	93	D	7	D	D	D
Other information	other 51	385	732	*	731	3	D	0	D
Finance, insurance, and real estate	52, 53	1,021	1,969	0	1,969	9	32	0	32
Professional, scientific, and technical services	54	10,856	38,049	7,438	30,611	1,477	1,320	357	964
Architectural, engineering, and related services	5413	2,444	6,579	1,714	4,866	112	95	30 i	66
Computer systems design and related services	5415	5,316	14,841	1,011	13,830	581	330	55	275
Scientific R&D services	5417	2,268	14,525	4,495	10,030	525	864	265	599
Other professional, scientific, and technical services	other 54	829	2,105	219	1,885	258	31	7	24
Health care services	621–23	1,945	992	37	955	508	D	D	D
Other nonmanufacturing <sup>a</sup>	55, 56, 61, 624, 71, 72, 81	3,637	1,479	34	1,445	13	16	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	-	44,266	247,669	24,304	223,365	4,541	7,078	1,037	6,042
5-24	-	21,153	7,207	1,121	6,087	2,825	278	58	220
25-49	-	6,815	D	D	6,465	441	219	82	137
50-99	-	7,035	9,064	704	8,360	383	275	91	184
100-249	-	4,372	13,306	1,206	12,101	358	482	89	392
250-499	-	1,941	D	D	7,944	160	233	19	214
500-999	-	1,441	13,360	878	12,482	113	331	101	230
1,000-4,999	-	1,065	37,866	1,847	36,019	165	761	8	753
5,000-9,999	-	195	20,434	657	19,776	37	611	18	593
10,000-24,999	-	145	37,865	1,816	36,049	30	1,929	55	1,874
25,000 or more	-	105	92,925	14,843	78,082	28	1,959	514	1,446

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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	17,533	42,279	4,356	37,923	34,528	154,422	9,046	145,377
Manufacturing industries	31–33	6,914	28,984	2,680	26,304	15,743	103,194	6,535	96,659
Food	311	253	496	D	D	636	1,806	D	D
Beverage and tobacco products	312	24	70	0	70	24	45	0	45
Textiles, apparel, and leather	313–16	140	D	D	D	471	494	D	D
Wood products	321	34	68 i	0	68 i	135	109	*	108
Paper, printing, and support activities	322, 323	147	D	D	D	502	D	D	D
Petroleum and coal products	324	41	D	*	D	96	D	*	D
Chemicals	325	990	10,692	86	10,606	1,629	28,907	D	D
Basic chemicals	3251	120	564	D	D	228	1,346	51	1,294
Resin, synthetic rubber, fibers, and filament	3252	70	1,059	D	D	139	657	D	D
Pharmaceuticals and medicines	3254	255	8,320	D	D	373	24,842	42	24,800
Other chemicals	other 325	544	749	1	748	889	2,062	11	2,051
Plastics and rubber products	326	546	D	D	D	1,145	D	D	D
Nonmetallic mineral products	327	265	249	9	240	312	D	D	422
Primary metals	331	82	165	D	D	192	435	D	D
Fabricated metal products	332	907	219	1	218	1,962	1,065	66 i	999
Machinery	333	1,031	1,349	27	1,321	2,590	7,134	61	7,073
Computer and electronic products	334	1,042	8,282	235	8,048	2,375	30,997	1,913	29,084
Computers and peripheral equipment	3341	114	D	D	D	225	5,271	D	D
Communications equipment	3342	165	D	D	1,986	440	5,901 i	D	D
Semiconductor and other electronic components	3344	247	3,985	53	3,932	633	12,063	278	11,785
Navigational, measuring, electromedical, and control instruments	3345	477	1,330	85	1,245	934	7,133	D	D
Other computer and electronic products	other 334	39	D	0	D	144	629	D	D
Electrical equipment, appliances, and components	335	352	D	D	D	871	1,631	D	D
Transportation equipment	336	312	5,327	2,212	3,115	915	25,023	D	D
Motor vehicles, trailers, and parts	3361–63	190	D	D	1,556	618	9,944	D	D
Aerospace products and parts	3364	38	3,172	1,793	1,379	100	11,958	2,096	9,861
Other transportation equipment	other 336	84	D	D	180	197	3,121	D	D
Furniture and related products	337	72	D	0	D	382	D	D	D
Miscellaneous manufacturing	339	677	770	87	683	1,504	2,686	19	2,667
Medical equipment and supplies	3391	377	647	D	D	787	1,891	17	1,874
Other miscellaneous manufacturing	other 339	300	123	D	D	718	796	3	793

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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	10,618	13,296	1,677	11,619	18,785	51,228	2,511	48,717
Mining, extraction, and support activities	21	115	D	D	D	35	684	D	D
Utilities	22	132	D	D	D	48	D	D	D
Construction	23	270	780	D	D	537	D	D	D
Wholesale Trade	42	705	345	D	D	2,746	1,573	D	D
Retail trade	44, 45	520	D	0	D	322	1,210	D	D
Transportation and warehousing	48, 49	11	D	D	D	21	78	0	78
Information	51	934	2,556	11	2,545	2,596	20,426	D	D
Publishing	511	663	D	D	1,909	1,516	14,606	16	14,590
Newspaper, periodical, book, and directory	5111	12	D	D	D	72	635	0	635
Software	5112	651	D	D	D	1,443	13,971	16	13,955
Telecommunications	517	30	D	0	D	153	1,786	D	D
Wired and wireless (except satellite)									
telecommunications carriers	5171, 5172	24	D	0	D	59	D	D	D
Satellite telecommunications	5174	0	0	0	0	6	D	0	D
Other telecommunications	other 517	6	16	0	16	89	D	0	D
Internet service providers, Web search portals, and data-processing services	518	215	D	D	D	578	3,437	D	D
Internet service providers and Web search portals	5181	35	34	0	34	128	1,487	0	1,487
Data-processing, hosting, and related services	5182	181	D	D	D	450	1,950	D	D
Other information	other 51	26	D	*	D	349	596	0	596
Finance, insurance, and real estate	52, 53	18	57	0	57	1,008	1,651	0	1,651
Professional, scientific, and technical services	54	5,226	8,487	1,593	6,894	8,312	23,122	2,345	20,777
Architectural, engineering, and related services	5413	1,342	1,428	294 i	1,134	1,498	4,097	661	3,436
Computer systems design and related services	5415	1,975	1,451	360	1,090	4,760	12,203	554	11,649
Scientific R&D services	5417	1,386	4,277	924	3,353	1,499	6,133	938	5,196
Other professional, scientific, and technical services	other 54	524	1,331	15	1,316	556	689	193	496
Health care services	621–23	1,393	261	D	D	1,044	D	D	D
Other nonmanufacturing <sup>a</sup>	55, 56, 61, 624, 71, 72, 81	1,295	191	D	D	2,115	1,218	8	1,209

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		Companies	All funds	Federal	Company and other	Companies	All funds	Federal	Company and other
Company size (employees)									
All companies	-	17,533	42,279	4,356	37,923	34,528	154,422	9,046	145,377
5-24	-	9,402	2,168	374	1,794	15,975	4,255	471	3,783
25-49	-	2,693	D	D	1,833	5,208	4,132	305	3,828
50-99	-	2,240	3,129	283	2,846	5,687	5,064	284	4,781
100-249	-	1,419	2,339	219	2,120	3,581	9,303	756	8,546
250-499	-	626	D	D	1,484	1,697	5,771	325	5,446
500-999	-	553	3,165	323	2,842	1,196	8,163	448	7,715
1,000-4,999	-	401	6,856	533	6,323	847	24,407	618	23,789
5,000-9,999	-	87	4,466	66	4,399	151	13,271	573 i	12,699
10,000-24,999	-	70	7,909	244	7,665	109	21,627	1,030	20,597
25,000 or more	-	41	8,469	1,851	6,617	77	58,430	4,237	54,193

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Industry and company size	NAICS codes	Companies	Expenditures not distributed <sup>b</sup>		
			All funds	Federal	Company and other
All industries	21–23, 31–33, 42, 44–81	3,771	43,889	9,865	34,024
Manufacturing industries	31–33	1,364	34,370	6,708	27,661
Food	311	68	278	0	278
Beverage and tobacco products	312	7	431	0	431
Textiles, apparel, and leather	313–16	13	45	0	45
Wood products	321	185	11	2	9
Paper, printing, and support activities	322, 323	14	2,123	12	2,111
Petroleum and coal products	324	3	925	1	925
Chemicals	325	120	4,397	1	4,396
Basic chemicals	3251	10	92	0	92
Resin, synthetic rubber, fibers, and filament	3252	6	97	0	97
Pharmaceuticals and medicines	3254	53	3,835	1	3,834
Other chemicals	other 325	51	374	0	374
Plastics and rubber products	326	26	263	0	263
Nonmetallic mineral products	327	26	212	*	211
Primary metals	331	9	44	*	44
Fabricated metal products	332	95	203	0	203
Machinery	333	270	1,287	0	1,287
Computer and electronic products	334	219	16,631	6,339	10,292
Computers and peripheral equipment	3341	33	1,076	1	1,075
Communications equipment	3342	35	3,069	11	3,058
Semiconductor and other electronic components	3344	57	2,367	10	2,358
Navigational, measuring, electromedical, and control instruments	3345	81	9,710	6,315	3,395
Other computer and electronic products	other 334	13	408	2	406
Electrical equipment, appliances, and components	335	55	243	2	241
Transportation equipment	336	112	5,670	349	5,322
Motor vehicles, trailers, and parts	3361–63	81	4,979	9	4,970
Aerospace products and parts	3364	23	657	340	317
Other transportation equipment	other 336	8	34	0	34
Furniture and related products	337	22	61	0	61
Miscellaneous manufacturing	339	122	1,545	2	1,542
Medical equipment and supplies	3391	62	1,436	1	1,435
Other miscellaneous manufacturing	other 339	61	109	1	107

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			All funds	Federal	Company and other
Nonmanufacturing industries	21–23, 42, 44–81	2,407	9,519	3,156	6,362
Mining, extraction, and support activities	21	3	35	1	34
Utilities	22	5	7	0	7
Construction	23	1	*	0	*
Wholesale Trade	42	403	137	*	137
Retail trade	44, 45	3	1	0	1
Transportation and warehousing	48, 49	2	178	0	178
Information	51	297	3,747	1	3,746
Publishing	511	233	3,400	1	3,400
Newspaper, periodical, book, and directory	5111	162	350	0	350
Software	5112	72	3,050	1	3,049
Telecommunications	517	6	207	0	207
Wired and wireless (except satellite)					
telecommunications carriers	5171, 5172	4	32	0	32
Satellite telecommunications	5174	0	0	0	0
Other telecommunications	other 517	2	174	0	174
Internet service providers, Web search portals, and data-processing services	518	43	83	1	82
Internet service providers and Web search portals	5181	0	0	0	0
Data-processing, hosting, and related services	5182	43	83	1	82
Other information	other 51	15	57	0	57
Finance, insurance, and real estate	52, 53	9	229	0	229
Professional, scientific, and technical services	54	659	5,120	3,144	1,977
Architectural, engineering, and related services	5413	43	959	729	230
Computer systems design and related services	5415	319	857	42	816
Scientific R&D services	5417	282	3,250	2,368	882
Other professional, scientific, and technical services	other 54	14	54	5	49
Health care services	621–23	264	10	1	9
Other nonmanufacturing <sup>a</sup>	55, 56, 61, 624, 71, 72, 81	761	55	9	46

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Industry and company size	NAICS codes	Expenditures not distributed <sup>b</sup>			
		Companies	All funds	Federal	Company and other
Company size (employees)					
All companies	-	3,771	43,889	9,865	34,024
5-24	-	2,174	507	217	290
25-49	-	441	702	34	668
50-99	-	469	595	46	549
100-249	-	282	1,184	141	1,042
250-499	-	117	805	5	800
500-999	-	63	1,701	6	1,695
1,000-4,999	-	139	5,842	688	5,154
5,000-9,999	-	26	2,086	*	2,086
10,000-24,999	-	30	6,400	487	5,913
25,000 or more	-	29	24,067	8,240	15,827

\* = amount < \$500,000; D = suppressed to avoid disclosure of confidential information; i = more than 50% of the value is imputed; - = not applicable.

<sup>a</sup> Estimates for management of companies and enterprises (NAICS 55), formerly shown separately, now are included in other nonmanufacturing.

<sup>b</sup> The amounts of undistributed R&D are distributed among basic research, applied research, and development in table 24.

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 are 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 24. 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.