

TABLE 12. Company and other nonfederal funds for and companies funding industrial R&D performed outside of company facilities in the United States by outside organizations, by industry and company size, by type of organization: 2006
(Amount in millions of dollars)

Industry and company size	NAICS codes	Company-funded R&D performed by outside organizations		For-profit companies		Universities and colleges	
		Companies	Amount	Companies	Amount	Companies	Amount
All industries	21–23, 31–33, 42, 44–81	6,156	12,378	710	9,205	230	482
Manufacturing industries	31–33	2,710	8,795	414	7,095	152	425
Food	311	79	228	15	179	12	D
Beverage and tobacco products	312	8	16	3	13	3	D
Textiles, apparel, and leather	313–16	29	6	7	D	2	D
Wood products	321	17	D	0	0	0	0
Paper, printing, and support activities	322, 323	90	D	8	D	6	2
Petroleum and coal products	324	16	D	2	D	2	D
Chemicals	325	423	4,831	96	3,970	59	308
Basic chemicals	3251	48	39	11	27	11	D
Resin, synthetic rubber, fibers, and filament	3252	29	12	7	5	5	6
Pharmaceuticals and medicines	3254	175	4,604	60	3,820	35	284
Other chemicals	other 325	171	176	18	118	8	D
Plastics and rubber products	326	150	56	17	D	3	*
Nonmetallic mineral products	327	27	4	4	D	3	D
Primary metals	331	36	7	5	5	3	D
Fabricated metal products	332	194	25	9	4	0	0
Machinery	333	351	252	37	223 i	10	2
Computer and electronic products	334	544	1,288	109	1,050	21	33
Computers and peripheral equipment	3341	93	169	17	132	4	D
Communications equipment	3342	102	239	31	D	0	0
Semiconductor and other electronic components	3344	133	208	32	D	6	D
Navigational, measuring, electromedical, and control instruments	3345	185	659	25	578	9	16
Other computer and electronic products	other 334	31	12	4	D	2	D
Electrical equipment, appliances, and components	335	156	40	20	23	3	D
Transportation equipment	336	198	1,448	46	1,383	12	20
Motor vehicles, trailers, and parts	3361–63	121	1,005	29	D	8	D
Aerospace products and parts	3364	29	419	13	D	3	D
Other transportation equipment	other 336	48	23	4	D	1	D
Furniture and related products	337	39	D	2	D	0	0
Miscellaneous manufacturing	339	352	494	34	144	13	14
Medical equipment and supplies	3391	229	189	29	D	12	D
Other miscellaneous manufacturing	other 339	123	304	5	D	1	D

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		Companies	Amount	Companies	Amount	Companies	Amount
Nonmanufacturing industries	21–23, 42, 44–81	3,447	3,583	296	2,110	78	57
Mining, extraction, and support activities	21	109	200	6	148	4	D
Utilities	22	16	102	5	D	2	D
Construction	23	4	D	2	D	0	0
Wholesale trade	42	601	229	18	D	2	D
Retail trade	44, 45	22	152 i	10	D	1	D
Transportation and warehousing	48, 49	5	D	1	D	0	0
Information	51	486	658	72	364	7	D
Publishing	511	221	246	54	159	3	D
Newspaper, periodical, book, and directory	5111	7	46 i	3	35 i	0	0
Software	5112	214	199	51	123	3	D
Telecommunications	517	53	181	3	D	2	D
Wired and wireless (except satellite) telecommunications carriers	5171, 5172	24	D	3	D	2	D
Satellite telecommunications	5174	1	D	0	0	0	0
Other telecommunications	other 517	28	79	0	0	0	0
Internet service providers, Web search portals, and data-processing services	518	205	D	11	D	1	D
Internet service providers and Web search portals	5181	26	D	2	D	0	0
Data-processing, hosting, and related services	5182	179	D	9	D	1	D
Other information	other 51	7	D	4	D	1	D
Finance, insurance, and real estate	52, 53	274	427	15	D	1	D
Professional, scientific, and technical services	54	1,401	1,675	154	956	56	D
Architectural, engineering, and related services	5413	245	85	10	D	2	D
Computer systems design and related services	5415	707	285	40	D	0	0
Scientific R&D services	5417	435	1,272	97	D	54	30
Other professional, scientific, and technical services	other 54	14	34	7	32	0	0
Health care services	621–23	259	26	6	D	3	1
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	270	95	7	D	2	D

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Industry and company size	NAICS codes	Company-funded R&D performed by outside organizations		For-profit companies		Universities and colleges	
		Companies	Amount	Companies	Amount	Companies	Amount
Company size (employees)							
All companies	-	6,156	12,378	710	9,205	230	482
5-24	-	2,559	707	9	17	7	3
25-49	-	1,045	880	39	215	18	7
50-99	-	786	465	74	201	23	7
100-249	-	860	817	118	402	25	13
250-499	-	308	439	102	315	22	12
500-999	-	221	605	98	458	20	13
1,000-4,999	-	222	1,643	144	1,412	51	78
5,000-9,999	-	58	640	43	578	20	14
10,000-24,999	-	55	3,870	46	3,448	22	231
25,000 or more	-	43	2,311	37	2,160	22	105

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Industry and company size	NAICS codes	Nonprofit organizations (other than universities and colleges)		Federal agencies or laboratories		State government agencies or laboratories	
		Companies	Amount	Companies	Amount	Companies	Amount
All industries	21–23, 31–33, 42, 44–81	72	128	22	D	13	D
Manufacturing industries	31–33	42	D	16	D	10	1
Food	311	3	D	2	D	1	D
Beverage and tobacco products	312	1	D	0	0	0	0
Textiles, apparel, and leather	313–16	0	0	0	0	0	0
Wood products	321	1	D	0	0	0	0
Paper, printing, and support activities	322, 323	2	D	1	D	1	D
Petroleum and coal products	324	0	0	0	0	0	0
Chemicals	325	15	61	5	D	3	D
Basic chemicals	3251	2	D	0	0	0	0
Resin, synthetic rubber, fibers, and filament	3252	0	0	0	0	0	0
Pharmaceuticals and medicines	3254	10	D	3	D	2	D
Other chemicals	other 325	3	D	2	D	1	D
Plastics and rubber products	326	1	D	0	0	0	0
Nonmetallic mineral products	327	0	0	0	0	0	0
Primary metals	331	1	D	0	0	0	0
Fabricated metal products	332	0	0	0	0	0	0
Machinery	333	0	0	0	0	0	0
Computer and electronic products	334	9	D	2	D	1	D
Computers and peripheral equipment	3341	2	D	0	0	0	0
Communications equipment	3342	2	D	0	0	0	0
Semiconductor and other electronic components	3344	2	D	1	D	0	0
Navigational, measuring, electromedical, and control instruments	3345	3	D	1	D	1	D
Other computer and electronic products	other 334	0	0	0	0	0	0
Electrical equipment, appliances, and components	335	1	D	2	D	2	D
Transportation equipment	336	4	D	2	D	1	D
Motor vehicles, trailers, and parts	3361–63	2	D	1	D	1	D
Aerospace products and parts	3364	2	D	1	D	0	0
Other transportation equipment	other 336	0	0	0	0	0	0
Furniture and related products	337	0	0	0	0	0	0
Miscellaneous manufacturing	339	4	D	2	D	1	D
Medical equipment and supplies	3391	4	D	2	D	1	D
Other miscellaneous manufacturing	other 339	0	0	0	0	0	0

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		Companies	Amount	Companies	Amount	Companies	Amount
Nonmanufacturing industries	21–23, 42, 44–81	30	D	6	D	3	D
Mining, extraction, and support activities	21	2	D	2	D	1	D
Utilities	22	9	35	0	0	2	D
Construction	23	0	0	0	0	0	0
Wholesale trade	42	0	0	0	0	0	0
Retail trade	44, 45	0	0	0	0	0	0
Transportation and warehousing	48, 49	1	D	0	0	0	0
Information	51	1	D	0	0	0	0
Publishing	511	1	D	0	0	0	0
Newspaper, periodical, book, and directory	5111	0	0	0	0	0	0
Software	5112	1	D	0	0	0	0
Telecommunications	517	0	0	0	0	0	0
Wired and wireless (except satellite)							
telecommunications carriers	5171, 5172	0	0	0	0	0	0
Satellite telecommunications	5174	0	0	0	0	0	0
Other telecommunications	other 517	0	0	0	0	0	0
Internet service providers, Web search portals, and data-processing services	518	0	0	0	0	0	0
Internet service providers and Web search portals	5181	0	0	0	0	0	0
Data-processing, hosting, and related services	5182	0	0	0	0	0	0
Other information	other 51	0	0	0	0	0	0
Finance, insurance, and real estate	52, 53	1	D	0	0	0	0
Professional, scientific, and technical services	54	15	D	3	D	0	0
Architectural, engineering, and related services	5413	1	D	0	0	0	0
Computer systems design and related services	5415	0	0	1	D	0	0
Scientific R&D services	5417	14	D	2	D	0	0
Other professional, scientific, and technical services	other 54	0	0	0	0	0	0
Health care services	621–23	0	0	1	D	0	0
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	1	D	0	0	0	0

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		Companies	Amount	Companies	Amount	Companies	Amount
Company size (employees)							
All companies	-	72	128	22	13	13	30
5-24	-	0	0	0	0	0	0
25-49	-	5	1	0	0	0	0
50-99	-	6	*	0	0	0	0
100-249	-	6	D	4	D	1	D
250-499	-	8	1 i	4	*	0	0
500-999	-	7	8	2	D	2	D
1,000-4,999	-	10	6	4	D	6	D
5,000-9,999	-	10	D	0	0	1	D
10,000-24,999	-	11	72	3	D	3	D
25,000 or more	-	9	26	5	6	0	0

TABLE 12. Company and other nonfederal funds for and companies funding industrial R&D performed outside of company facilities in the United States by outside organizations, by industry and company size, by type of organization: 2006
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Industry and company size	NAICS codes	Undistributed R&D	
		Companies	Amount
All industries	21–23, 31–33, 42, 44–81	5,385	2,520
Manufacturing industries	31–33	2,262	1,182
Food	311	63	5
Beverage and tobacco products	312	5	1
Textiles, apparel, and leather	313–16	22	4
Wood products	321	16	1
Paper, printing, and support activities	322, 323	79	6
Petroleum and coal products	324	13	1
Chemicals	325	315	487
Basic chemicals	3251	33	7
Resin, synthetic rubber, fibers, and filament	3252	19	1
Pharmaceuticals and medicines	3254	112	439
Other chemicals	other 325	151	40
Plastics and rubber products	326	132	37
Nonmetallic mineral products	327	22	2
Primary metals	331	30	2
Fabricated metal products	332	185	21
Machinery	333	312	27
Computer and electronic products	334	429	201
Computers and peripheral equipment	3341	75	35
Communications equipment	3342	70	82
Semiconductor and other electronic components	3344	101	18
Navigational, measuring, electromedical, and control instruments	3345	156	63
Other computer and electronic products	other 334	27	3
Electrical equipment, appliances, and components	335	134	16
Transportation equipment	336	151	34
Motor vehicles, trailers, and parts	3361–63	90	7
Aerospace products and parts	3364	16	15
Other transportation equipment	other 336	45	12
Furniture and related products	337	37	2
Miscellaneous manufacturing	339	316	334
Medical equipment and supplies	3391	198	33
Other miscellaneous manufacturing	other 339	118	301

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Industry and company size	NAICS codes	Undistributed R&D	
		Companies	Amount
Nonmanufacturing industries	21–23, 42, 44–81	3,124	1,338
Mining, extraction, and support activities	21	103	30
Utilities	22	6	29
Construction	23	2	1
Wholesale trade	42	582	141
Retail trade	44, 45	12	2
Transportation and warehousing	48, 49	3	4
Information	51	413	288
Publishing	511	166	86
Newspaper, periodical, book, and directory	5111	4	11
Software	5112	162	75
Telecommunications	517	50	160
Wired and wireless (except satellite)			
telecommunications carriers	5171, 5172	21	D
Satellite telecommunications	5174	1	D
Other telecommunications	other 517	28	79
Internet service providers, Web search portals, and data-processing services	518	194	38
Internet service providers and Web search portals	5181	24	4
Data-processing, hosting, and related services	5182	170	34
Other information	other 51	3	3
Finance, insurance, and real estate	52, 53	259	73
Professional, scientific, and technical services	54	1,229	681
Architectural, engineering, and related services	5413	233	42
Computer systems design and related services	5415	667	164
Scientific R&D services	5417	322	473
Other professional, scientific, and technical services	other 54	7	2
Health care services	621–23	253	6
Other nonmanufacturing ^a	55, 56, 61, 624, 71, 72, 81	262	83

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Industry and company size	NAICS codes	Undistributed R&D	
		Companies	Amount
Company size (employees)			
All companies	-	5,385	2,520
5-24	-	2,548	687
25-49	-	1,000	657
50-99	-	705	257
100-249	-	734	399
250-499	-	200	111
500-999	-	117	124
1,000-4,999	-	65	146
5,000-9,999	-	9	36
10,000-24,999	-	4	87
25,000 or more	-	4	16

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

^d 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 number of companies because categories are not mutually exclusive. The method used to assign industry classifications has changed; industry-specific estimates are not directly comparable with those for years prior to 2004. Detail does not add to total for money amounts because of rounding or suppression. The R&D in this table is the industrial R&D performed outside company facilities funded from all sources except the federal government. The funds are predominantly the company's own, but also include funds from outside organizations such as other companies, research institutions, universities and colleges, nonprofit organizations, and state governments. Excluded is company-funded R&D not performed within the 50 U.S. states or DC (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations). Data for total company-funded R&D performed by other organizations are collected from all R&D performing companies; however, data for company-funded R&D performed by other organizations by type of performer 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: 2006.