

TABLE 42. 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: 2007  
(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	8,137	19,040	802	12,180	290	752
Manufacturing industries	31–33	3,648	14,453	459	9,546	192	673
Food	311	159	261	18	196	16	46
Beverage and tobacco products	312	8	22	4	18	4	2
Textiles, apparel, and leather	313–16	59	4	3	D	3	D
Wood products	321	22	D	2	D	0	0
Paper, printing, and support activities	322, 323	85	21	7	14	6	D
Petroleum and coal products	324	25	D	2	D	1	D
Chemicals	325	905	10,375	102	6,271	68	512
Basic chemicals	3251	103	62	12	D	13	D
Resin, synthetic rubber, fibers, and filament	3252	22	28	4	D	3	D
Pharmaceuticals and medicines	3254	518	10,054	68	6,073	39	469
Other chemicals	other 325	262	231	18	151	13	D
Plastics and rubber products	326	255	54	13	D	3	*
Nonmetallic mineral products	327	53	5	3	D	5	2
Primary metals	331	35	D	9	D	6	1
Fabricated metal products	332	170	D	12	D	2	D
Machinery	333	579	295	40	188	15	D
Computer and electronic products	334	514	972	127	780	30	58
Computers and peripheral equipment	3341	59	168	17	154	3	D
Communications equipment	3342	108	147	30	D	1	D
Semiconductor and other electronic components	3344	102	184	35	139	8	D
Navigational, measuring, electromedical, and control instruments	3345	219	462	40	345	17	40
Other computer and electronic products	other 334	27	10	5	D	1	D
Electrical equipment, appliances, and components	335	139	75	22	55	5	D
Transportation equipment	336	181	1,747	51	1,513	13	34
Motor vehicles, trailers, and parts	3361–63	97	1,166	31	D	7	D
Aerospace products and parts	3364	32	447	13	394	5	D
Other transportation equipment	other 336	52	134	7	D	1	D
Furniture and related products	337	34	7	3	4	0	0
Miscellaneous manufacturing	339	425	458	41	361	15	14
Medical equipment and supplies	3391	254	430	38	D	14	D
Other miscellaneous manufacturing	other 339	171	27	3	D	1	D

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		Companies	Amount	Companies	Amount	Companies	Amount
Nonmanufacturing industries	21–23, 42, 44–81	4,490	4,588	343	2,634	98	79
Mining, extraction, and support activities	21	16	260	5	217	4	D
Utilities	22	24	128	5	D	2	D
Construction	23	253	D	1	D	0	0
Wholesale trade	42	1,023	201	26	103	2	D
Retail trade	44, 45	263	84	6	D	2	D
Transportation and warehousing	48, 49	7	23	2	D	1	D
Information	51	637	833	74	663	11	D
Publishing	511	328	235	56	150	7	D
Newspaper, periodical, book, and directory	5111	20	34	5	27	0	0
Software	5112	309	201	51	123	7	D
Telecommunications	517	67	258	3	D	2	D
Wired and wireless (except satellite)							
telecommunications carriers	5171, 5172	22	D	1	D	2	D
Satellite telecommunications	5174	0	0	0	0	0	0
Other telecommunications	other 517	45	D	2	D	0	0
Internet service providers, Web search portals, and data-processing services	518	207	290	9	D	2	D
Internet service providers and Web search portals	5181	72	D	2	D	0	0
Data-processing, hosting, and related services	5182	134	D	7	D	2	D
Other information	other 51	35	50	6	49	0	0
Finance, insurance, and real estate	52, 53	32	376	18	D	1	D
Professional, scientific, and technical services	54	2,202	2,620	194	1,257	73	31
Architectural, engineering, and related services	5413	167	40	7	6	0	0
Computer systems design and related services	5415	1,050	394	41	D	1	D
Scientific R&D services	5417	454	1,654	135	1,030	70	D
Other professional, scientific, and technical services	other 54	531	532	11	D	2	D
Health care services	621–23	7	D	4	D	1	D
Other nonmanufacturing <sup>a</sup>	55, 56, 61, 624, 71, 72, 81	25	20	8	D	1	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	-	8,137	19,040	802	12,180	290	752
5-24	-	3,507	1,550	13	32	8	3
25-49	-	1,281	2,458	61	251	30	14
50-99	-	1,287	1,088	100	382	35	14
100-249	-	1,072	910	117	552	24	9
250-499	-	330	515	105	318	27	14
500-999	-	219	834	106	657	25	15
1,000-4,999	-	252	2,581	158	2,234	62	45
5,000-9,999	-	73	1,143	48	827	23	40
10,000-24,999	-	67	4,265	51	3,502	30	403
25,000 or more	-	50	3,696	43	3,424	26	195

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(Amount in millions of dollars)

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	78	225	27	43	15	7
Manufacturing industries	31–33	49	172	21	33	11	3
Food	311	2	D	1	D	2	D
Beverage and tobacco products	312	0	0	0	0	0	0
Textiles, apparel, and leather	313–16	0	0	0	0	0	0
Wood products	321	0	0	0	0	0	0
Paper, printing, and support activities	322, 323	2	D	1	D	0	0
Petroleum and coal products	324	0	0	0	0	0	0
Chemicals	325	22	159	6	10	5	*
Basic chemicals	3251	3	D	0	0	0	0
Resin, synthetic rubber, fibers, and filament	3252	0	0	0	0	0	0
Pharmaceuticals and medicines	3254	15	D	5	D	3	D
Other chemicals	other 325	4	D	1	D	2	D
Plastics and rubber products	326	1	D	0	0	0	0
Nonmetallic mineral products	327	0	0	1	D	0	0
Primary metals	331	1	D	0	0	0	0
Fabricated metal products	332	0	0	0	0	0	0
Machinery	333	2	D	1	D	0	0
Computer and electronic products	334	9	D	5	7	2	D
Computers and peripheral equipment	3341	2	D	0	0	0	0
Communications equipment	3342	1	D	0	0	0	0
Semiconductor and other electronic components	3344	1	D	1	D	0	0
Navigational, measuring, electromedical, and control instruments	3345	5	D	4	D	2	D
Other computer and electronic products	other 334	0	0	0	0	0	0
Electrical equipment, appliances, and components	335	1	D	1	D	1	D
Transportation equipment	336	6	D	4	D	1	D
Motor vehicles, trailers, and parts	3361–63	1	D	1	D	1	D
Aerospace products and parts	3364	4	D	2	D	0	0
Other transportation equipment	other 336	1	D	1	D	0	0
Furniture and related products	337	0	0	0	0	0	0
Miscellaneous manufacturing	339	3	D	1	D	0	0
Medical equipment and supplies	3391	3	D	1	D	0	0
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	29	53	6	10	4	4
Mining, extraction, and support activities	21	2	D	1	D	1	D
Utilities	22	4	43	0	0	0	0
Construction	23	0	0	0	0	0	0
Wholesale trade	42	1	D	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	1	D	1	D
Publishing	511	0	0	0	0	1	D
Newspaper, periodical, book, and directory	5111	0	0	0	0	0	0
Software	5112	0	0	0	0	1	D
Telecommunications	517	0	0	1	D	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	1	D	0	0
Internet service providers, Web search portals, and data-processing services	518	1	D	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	1	D	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	1	D
Professional, scientific, and technical services	54	16	D	4	D	0	0
Architectural, engineering, and related services	5413	0	0	0	0	0	0
Computer systems design and related services	5415	0	0	1	D	0	0
Scientific R&D services	5417	16	D	2	D	0	0
Other professional, scientific, and technical services	other 54	0	0	1	D	0	0
Health care services	621–23	1	D	0	0	0	0
Other nonmanufacturing <sup>a</sup>	55, 56, 61, 624, 71, 72, 81	2	D	0	0	1	D

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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
Company size (employees)							
All companies	-	78	225	27	43	15	7
5-24	-	3	D	0	0	2	D
25-49	-	5	D	1	D	0	0
50-99	-	8	D	1	D	0	0
100-249	-	8	D	2	D	1	D
250-499	-	8	D	0	0	1	D
500-999	-	6	D	2	D	1	D
1,000-4,999	-	9	5	4	D	3	D
5,000-9,999	-	7	D	3	D	0	0
10,000-24,999	-	12	111	6	10	4	1
25,000 or more	-	12	37	8	D	3	D

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Industry and company size	NAICS codes	Undistributed R&D	
		Companies	Amount
All industries	21–23, 31–33, 42, 44–81	7,261	5,833
Manufacturing industries	31–33	3,144	4,027
Food	311	139	16
Beverage and tobacco products	312	4	2
Textiles, apparel, and leather	313–16	54	3
Wood products	321	20	3
Paper, printing, and support activities	322, 323	75	4
Petroleum and coal products	324	23	2
Chemicals	325	787	3,423
Basic chemicals	3251	86	18
Resin, synthetic rubber, fibers, and filament	3252	16	1
Pharmaceuticals and medicines	3254	446	3,350
Other chemicals	other 325	239	54
Plastics and rubber products	326	240	44
Nonmetallic mineral products	327	47	3
Primary metals	331	23	2
Fabricated metal products	332	158	13
Machinery	333	537	104
Computer and electronic products	334	379	122
Computers and peripheral equipment	3341	42	12
Communications equipment	3342	78	13
Semiconductor and other electronic components	3344	64	26
Navigational, measuring, electromedical, and control instruments	3345	174	69
Other computer and electronic products	other 334	22	2
Electrical equipment, appliances, and components	335	116	17
Transportation equipment	336	127	184
Motor vehicles, trailers, and parts	3361–63	64	51
Aerospace products and parts	3364	18	10
Other transportation equipment	other 336	45	123
Furniture and related products	337	31	3
Miscellaneous manufacturing	339	384	81
Medical equipment and supplies	3391	216	55
Other miscellaneous manufacturing	other 339	168	26

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Industry and company size	NAICS codes	Undistributed R&D	
		Companies	Amount
Nonmanufacturing industries	21–23, 42, 44–81	4,118	1,807
Mining, extraction, and support activities	21	11	1
Utilities	22	17	76
Construction	23	252	38
Wholesale trade	42	996	98
Retail trade	44, 45	257	39
Transportation and warehousing	48, 49	4	8
Information	51	560	160
Publishing	511	270	82
Newspaper, periodical, book, and directory	5111	15	7
Software	5112	256	75
Telecommunications	517	63	36
Wired and wireless (except satellite)			
telecommunications carriers	5171, 5172	20	3
Satellite telecommunications	5174	0	0
Other telecommunications	other 517	43	33
Internet service providers, Web search portals,			
and data-processing services	518	198	40
Internet service providers and Web search portals	5181	70	9
Data-processing, hosting, and related services	5182	127	31
Other information	other 51	29	1
Finance, insurance, and real estate	52, 53	14	56
Professional, scientific, and technical services	54	1,986	1,323
Architectural, engineering, and related services	5413	160	34
Computer systems design and related services	5415	1,009	269
Scientific R&D services	5417	298	589
Other professional, scientific, and technical services	other 54	519	430
Health care services	621–23	3	1
Other nonmanufacturing <sup>a</sup>	55, 56, 61, 624, 71, 72, 81	17	9

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Industry and company size	NAICS codes	Undistributed R&D	
		Companies	Amount
Company size (employees)			
All companies	-	7,261	5,833
5-24	-	3,490	1,514
25-49	-	1,209	2,189
50-99	-	1,179	691
100-249	-	949	346
250-499	-	219	182
500-999	-	103	147
1,000-4,999	-	79	295
5,000-9,999	-	20	216
10,000-24,999	-	11	238
25,000 or more	-	3	15

\* = amount < \$500,000; D = suppressed to avoid disclosure of confidential information; - = not applicable.

<sup>a</sup> 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. 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. 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). 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 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.