

TABLE 62. R&D paid for by the company and others and performed by the company outside of the United States, by source of funds, industry, and company size: 2009

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Funding source	
			U.S. unit or foreign subsidiary	Foreign parent or other company
All industries	21-23, 31-33, 42-81	54,914	51,265	3,648
Manufacturing industries	31-33	40,936	39,881	1,056
Food	311	817	D	D
Beverage and tobacco products	312	455	455	0
Textiles, apparel, and leather products	313-316	83	83	*
Wood products	321	2	2	0
Paper	322	259	259	0
Printing and related support activities	323	6	6	0
Petroleum and coal products	324	61	D	D
Chemicals	325	9,788	9,463	326
Basic chemicals	3251	838	824	14
Resin, synthetic rubber, fibers, and filaments	3252	260	259	1
Pesticide, fertilizer, and other agricultural chemical	3253	D i	D i	0
Pharmaceuticals and medicines	3254	7,063	6,753	310
Soap, cleaning compound, and toilet preparation	3256	911	911	0
Paint, coating, adhesive, and other chemical	3255, 3259	D	D	2
Plastics and rubber products	326	597	592	4
Nonmetallic mineral products	327	126 i	125 i	1
Primary metals	331	100	100	*
Fabricated metal products	332	124	123	*
Machinery	333	1,897	1,878	20
Agricultural implements	33311	345	343	2
Semiconductor machinery	333295	287	281	5 i
Engine, turbine, and power transmission equipment	3336	83	76	7
Other machinery	other 333	1,183	1,177	6
Computer and electronic products	334	13,351	13,099	253
Communications equipment	3342	3,132	3,096	36 i
Semiconductor and other electronic components	3344	6,058	5,990	68
Navigational, measuring, electromedical, and control instruments	3345	2,331	2,263	68
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	686 i	681 i	5
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	802	746	56
Other measuring and controlling instruments	other 3345	843	837	6
Computer and peripheral equipment and other computer and electronic products	other 334	1,831	1,750	81
Electrical equipment, appliances, and components	335	1,201	1,199	2
Transportation equipment	336	7,978	7,562	416
Automobiles, bodies, trailers, and parts	3361-3363	6,124	6,007	118
Aerospace products and parts	3364	1,846	1,548	298
Aircraft, aircraft engine, and aircraft parts	336411-336413	1,761	D	D
Guided missile, space vehicle, and related parts	336414, 336415, 336419	85	D	D
Military armored vehicle, tank, and tank components	336992	D	D	0
Other transportation equipment	other 336	D	D	*
Furniture and related products	337	38	38	*
Miscellaneous manufacturing	339	4,051	D	D
Medical equipment and supplies	3391	3,826	3,818	8
Other miscellaneous manufacturing	3399	225	D	D
Nonmanufacturing industries	21-23, 42-81	13,977	11,385	2,592
Mining, extraction, and support activities	21	D	247	D
Utilities	22	13	13	0
Construction	23	4	4	0
Wholesale trade	42	D i	D i	D i
Retail trade	44, 45	D	D	0

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Electronic shopping and mail-order houses	4541	D	D	0
Other retail trade	other 44, 45	3 i	3 i	0
Transportation and warehousing	48, 49	1	1	0
Information	51	6,911	6,879	32
Publishing	511	6,422	6,391	30
Newspaper, periodical, book, and directory publishers	5111	47	47	0
Software publishers	5112	6,374	6,344	30
Telecommunications	517	86	85	1
Data processing, hosting, and related services	518	282	281	1
Other information	other 51	122	122	0
Finance and insurance	52	523	522	1
Real estate and rental and leasing	53	*	*	0
Professional, scientific, and technical services	54	5,955	3,414	2,541
Architectural, engineering, and related services	5413	130	117	14
Computer systems design and related services	5415	2,025	1,962	63
Scientific R&D services	5417	2,974	683	2,291
Biotechnology R&D	541711	713	154	559
Physical, engineering, and life sciences (except biotechnology) R&D	541712	2,251	520	1,731
Social sciences and humanities R&D	541720	9	8	1
Other professional, scientific, and technical services	other 54	826	652	174
Health care services	621-623	10	10	0
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	66	66	0
All companies	-	54,914	51,265	3,648
Small companies (number of domestic employees) ^a				
5-499	-	4,246	4,013	234
5-99	-	1,656	1,453	203
5-49	-	1,151	1,108	43
5-24	-	696	661	34
25-49	-	455	447	8
50-99	-	505	345	160
100-249	-	1,586	1,571	15
250-499	-	1,005	989	16
Medium and large companies (number of domestic employees)				
500-999	-	1,985	1,851	134
1,000-4,999	-	10,610	9,942	668
5,000-9,999	-	5,778	3,993	1,786
10,000-24,999	-	10,777	10,244	533
25,000 or more	-	21,517	21,222	294

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = value > 50% of estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2007 North American Industry Classification System.

^a Upper bound based on U.S. Small Business Administration's definition of small business; Business R&D and Innovation Survey (BRDIS) does not include companies with fewer than five domestic employees.

NOTES: Detail may not add to total because of rounding. Industry classification based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, classification used for sampling was assigned. Statistics are representative of companies located in United States that performed or funded R&D.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey, 2009.