

TABLE 106. Domestic R&D paid for and performed by the company as a percent of domestic net sales, by industry and company size: 2010 (corrected September 2014)

(Millions of U.S. dollars)

Industry and company size	NAICS code	Domestic R&D	Percent of domestic sales
All industries	21–23, 31–33, 42–81	221,706	2.5
Manufacturing industries	31–33	159,579	3.3
Food	311	3,659	0.6
Beverage and tobacco products	312	717	0.6
Textiles, apparel, and leather products	313–316	478	0.9
Wood products	321	229	0.8
Paper	322	1,247	1.4
Printing and related support activities	323	201	0.6
Petroleum and coal products	324	1,104	0.9
Chemicals	325	53,555	5.3
Basic chemicals	3251	1,718	0.6
Resin, synthetic rubber, fibers, and filaments	3252	807	0.6
Pesticide, fertilizer, and other agricultural chemical	3253	760 i	3.0
Pharmaceuticals and medicines	3254	45,398	11.7
Soap, cleaning compound, and toilet preparation	3256	2,383	2.3
Paint, coating, adhesive, and other chemical	3255, 3259	2,491	3.1
Plastics and rubber products	326	1,809	1.2
Nonmetallic mineral products	327	1,246 i	2.4
Primary metals	331	579	*
Fabricated metal products	332	1,464	1.3
Machinery	333	9,384	3.7
Agricultural implement	33311	1,172	3.4
Semiconductor machinery	333295	1,999	16.5
Engine, turbine, and power transmission equipment	3336	1,231	5.1
Other machinery	other 333	4,981	2.7
Computer and electronic products	334	51,223	8.2
Communications equipment	3342	11,663	10.5
Semiconductor and other electronic components	3344	21,318	15.9
Navigational, measuring, electromedical, and control instruments	3345	9,729	4.9
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	3,800	9.2
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	2,787	2.8
Other measuring and controlling instruments	other 3345	3,141	5.8
Other computer and electronic products	other 334	8,514	4.7
Electrical equipment, appliances, and components	335	3,141	2.8
Transportation equipment	336	21,076	2.3
Automobiles, bodies, trailers, and parts	3361–3363	10,098	1.8
Aerospace products and parts	3364	10,152	3.3
Aircraft, aircraft engine, and aircraft parts	336411–336413	9,353	3.5
Guided missile, space vehicle, and related parts	336414, 336415, 336419	800	2.1
Military armored vehicle, tank, and tank components	336992	26	2.0
Other transportation	other 336	800 i	1.4
Furniture and related products	337	370	1.1
Miscellaneous manufacturing	339	8,097	2.3
Medical equipment and supplies	3391	D	D
Other miscellaneous manufacturing	3399	D	D
Nonmanufacturing industries	21–23, 42–81	62,127	1.6
Mining, extraction, and support activities	21	2,254	0.5
Utilities	22	371	*
Construction	23	704	0.8
Wholesale trade	42	1,040	0.7
Retail trade	44, 45	D	D
Electronic shopping and electronic auctions	454111, 454112	D	D
Other retail trade	other 44, 45	D	D
Transportation and warehousing	48, 49	88	*

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Information	51	36,085	4.5
Publishing	511	26,387	9.4
Newspaper, periodical, book, and directory publishers	5111	791	6.5
Software publishers	5112	25,596	9.5
Telecommunications	517	1,755	*
Data processing, hosting, and related services	518	2,491	7.5
Other information	other 51	5,452	5.8
Finance and insurance	52	2,109	*
Real estate and rental and leasing	53	327	3.3
Professional, scientific, and technical services	54	15,438	3.2
Architectural, engineering, and related services	5413	1,381	1.2
Computer systems design and related services	5415	9,416	5.3
Scientific R&D services	5417	2,851	2.7
Biotechnology R&D	541711	1,720	12.0
Physical, engineering, and life sciences (except biotechnology) R&D	541712	1,116	1.3
Social sciences and humanities R&D	541720	15	1.3
Other professional, scientific, and technical services	other 54	1,790	2.0
Health care services	621-623	1,126	1.7
Other nonmanufacturing	55, 56, 624, 71, 72, 81	D	D
All companies (number of employees)	-	221,706	2.5
Small companies (number of employees) <sup>a</sup>			
5-499	-	40,822	4.1
5-99	-	22,974	6.2
5-49	-	16,574	7.4
5-9	-	2,907	9.8
10-24	-	6,720	9.7
25-49	-	6,947	5.5
50-99	-	6,400	4.3
100-249	-	9,435	3.3
250-499	-	8,413	2.6
Medium and large companies (number of employees)			
500-999	-	8,640	2.7
1,000-4,999	-	39,468	3.3
5,000-9,999	-	21,940	1.6
10,000-24,999	-	36,688	2.2
25,000 or more	-	74,148	2.3

\* = 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.

<sup>a</sup> 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, 2010.