

TABLE 61. Worldwide, domestic, and foreign R&D paid for and performed by the company, by industry and company size: 2009  
(Millions of U.S. dollars)

Industry and company size	NAICS code	Worldwide	Domestic	Foreign
All industries	21–23, 31–33, 42–81	276,185	224,920	51,265
Manufacturing industries	31–33	198,105	158,225	39,881
Food	311	4,841	D	D
Beverage and tobacco products	312	930	475	455
Textiles, apparel, and leather products	313–316	503	420	83
Wood products	321	498	495	2
Paper	322	1,482	1,223	259
Printing and related support activities	323	200	194	6
Petroleum and coal products	324	D	D	D
Chemicals	325	59,339	49,876	9,463
Basic chemicals	3251	2,745	1,921	824
Resin, synthetic rubber, fibers, and filaments	3252	1,145	886	259
Pesticide, fertilizer, and other agricultural chemical	3253	D i	920 i	D i
Pharmaceuticals and medicines	3254	48,504	41,751	6,753
Soap, cleaning compound, and toilet preparation	3256	3,249	2,338	911
Paint, coating, adhesive, and other chemical	3255, 3259	D	2,060	D
Plastics and rubber products	326	2,922	2,329	592
Nonmetallic mineral products	327	1,203 i	1,077 i	125 i
Primary metals	331	693	593	100
Fabricated metal products	332	2,054	1,931	123
Machinery	333	10,659	8,782	1,878
Agricultural implements	33311	1,346	1,003	343
Semiconductor machinery	333295	2,105	1,823	281
Engine, turbine, and power transmission equipment	3336	712	636	76
Other machinery	other 333	6,496	5,319	1,177
Computer and electronic products	334	61,963	48,865	13,099
Communications equipment	3342	14,967	11,871	3,096
Semiconductor and other electronic components	3344	25,411	19,420	5,990
Navigational, measuring, electromedical, and control instruments	3345	12,207	9,944	2,263
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	5,037 i	4,356 i	681 i
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	3,884	3,138	746
Other measuring and controlling instruments	other 3345	3,286	2,449	837
Computer and peripheral equipment and other computer and electronic products	other 334	9,379	7,629	1,750
Electrical equipment, appliances, and components	335	4,304	3,105	1,199
Transportation equipment	336	31,785	24,223	7,562
Automobiles, bodies, trailers, and parts	3361–3363	16,859	10,853	6,007
Aerospace products and parts	3364	13,931	12,384	1,548
Aircraft, aircraft engine, and aircraft parts	336411–336413	D	11,248	D
Guided missile, space vehicle, and related parts	336414, 336415, 336419	D	1,136	D
Military armored vehicle, tank, and tank components	336992	31	D	D
Other transportation equipment	other 336	963 i	D i	D
Furniture and related products	337	431	393	38
Miscellaneous manufacturing	339	D	9,749	D
Medical equipment and supplies	3391	11,403	7,584	3,818
Other miscellaneous manufacturing	3399	D	2,164	D
Nonmanufacturing industries	21–23, 42–81	78,080	66,695	11,385
Mining, extraction, and support activities	21	2,720	2,473	247
Utilities	22	226	212	13
Construction	23	113	110	4
Wholesale trade	42	910 i	D i	D i
Retail trade	44, 45	1,015	D	D
Electronic shopping and mail-order houses	4541	967	D	D
Other retail trade	other 44, 45	49	45	3 i

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Transportation and warehousing	48, 49	153	152	1
Information	51	39,874	32,995	6,879
Publishing	511	32,803	26,412	6,391
Newspaper, periodical, book, and directory publishers	5111	730	683	47
Software publishers	5112	32,073	25,729	6,344
Telecommunications	517	1,500	1,414	85
Data processing, hosting, and related services	518	2,956	2,675	281
Other information	other 51	2,615	2,494	122
Finance and insurance	52	2,426	1,904	522
Real estate and rental and leasing	53	264	264	*
Professional, scientific, and technical services	54	29,445	26,031	3,414
Architectural, engineering, and related services	5413	1,340	1,223	117
Computer systems design and related services	5415	12,704	10,742	1,962
Scientific R&D services	5417	8,664	7,981	683
Biotechnology R&D	541711	5,615	5,461	154
Physical, engineering, and life sciences (except biotechnology) R&D	541712	2,989	2,469	520
Social sciences and humanities R&D	541720	59	51	8
Other professional, scientific, and technical services	other 54	6,737	6,085	652
Health care services	621-23	357	347	10
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	577	511	66
All companies	-	276,185	224,920	51,265
Small companies (number of domestic employees) <sup>a</sup>				
5-499	-	48,271	44,258	4,013
5-99	-	26,880	25,427	1,453
5-49	-	18,243	17,135	1,108
5-24	-	9,919	9,257	661
25-49	-	8,324	7,877	447
50-99	-	8,637	8,292	345
100-249	-	12,030	10,459	1,571
250-499	-	9,361	8,372	989
Medium and large companies (number of domestic employees)				
500-999	-	10,428	8,577	1,851
1,000-4,999	-	48,325	38,383	9,942
5,000-9,999	-	21,577	17,585	3,993
10,000-24,999	-	52,435	42,191	10,244
25,000 or more	-	95,149	73,927	21,222

\* = 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, 2009.