

TABLE 9

Worldwide, domestic, and foreign sales for companies located in the United States that performed or funded R&D, by business activity: 2018

(Millions of U.S. dollars)

Business activity ^a	Business code ^b	Sales		
		Worldwide	Domestic	Foreign
All business activities	21100–81000	14,458,452	10,698,764	3,759,688
Oil and gas extraction	21100	178,064	91,319	86,746
Mining	21200	44,894	25,850	19,044
Support activities for mining, including oil and gas	21300	84,371	54,537	29,834
Utilities	22100	333,570	328,791	4,779
Construction	23000	88,086	80,353	7,733
Food manufacturing	31100	718,232	527,388	190,844
Beverage manufacturing	31210	138,526	92,213	46,313
Tobacco manufacturing	31220	67,551	35,613	31,938
Textile, apparel, and leather products manufacturing	31990	84,253	58,770	25,483
Wood products manufacturing	32100	41,022	34,873	6,148
Paper manufacturing	32200	155,504	118,476	37,028
Printing and related support activities	32300	36,023	31,028	4,995
Petroleum refineries	32401	586,677	332,549	254,128
Asphalt paving, roofing, and saturated materials manufacturing	32402	17,795	11,426	6,369
Other petroleum and coal products manufacturing, including motor oil, hydraulic fluid, and charcoal	32403	16,008	13,238	2,770
Basic chemicals manufacturing	32510	262,008	181,047	80,961
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	32520	128,125	76,867	51,258
Pesticide, fertilizer, and other agricultural chemicals manufacturing	32530	83,309	53,085	30,224
Pharmaceutical, medicinal, botanical, and biological products (except diagnostic substances) manufacturing	32541	681,423	521,549	159,874
In vitro diagnostic substances manufacturing	32542	17,051	8,120	8,931
Biotechnology-based pharmaceutical and biological products (except diagnostic substances)	32543	102,259	89,145	13,114
Soap, cleaning compound, and toilet preparations manufacturing	32591	192,097	107,730	84,367
Paint, adhesive, and other chemical manufacturing	32592	131,775	86,085	45,690
Plastics and rubber products manufacturing	32600	228,046	172,355	55,691
Clay and glass products manufacturing	32710	48,541	29,703	18,837
Cement, concrete, lime, gypsum, and other nonmetallic mineral products manufacturing	32790	41,567	36,062	5,505
Primary metal manufacturing	33100	158,601	124,786	33,815
Fabricated metal products manufacturing	33200	204,748	151,435	53,313
Agricultural machinery and equipment manufacturing	33311	67,226	37,210	30,016
Construction machinery manufacturing	33312	74,103	44,659	29,444
Mining, oil, and gas field machinery and equipment manufacturing	33319	86,490	46,295	40,195
Semiconductor machinery manufacturing	33321	47,009	21,686	25,323
Industrial machinery manufacturing (except semiconductor machinery)	33322	44,608	31,875	12,733
Photographic and photocopying equipment manufacturing	33331	9,492	7,883	1,609
Commercial, service industry, temperature control, and air-flow control machinery manufacturing	33332	115,891	77,434	38,457
Digital cameras manufacturing	33333	2,086	1,658	427
Engine, turbine, and power transmission equipment manufacturing	33360	95,174	49,461	45,713
Metalworking and other general purpose machinery manufacturing	33390	124,837	86,415	38,422
Computers and peripheral equipment manufacturing and magnetic and optical media	33412	479,862	214,870	264,991
Telephone apparatus manufacturing, including routers, modems, and gateways	33421	80,805	44,162	36,643
Radio, television, and wireless communication equipment manufacturing	33422	34,720	28,199	6,520
Other communication equipment manufacturing (except radio, television, and wireless communication equipment)	33429	16,542	14,860	1,683
Audio and video equipment manufacturing	33430	11,671	6,362	5,308

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Semiconductor and other electronic components manufacturing	33440	399,809	210,206	189,603
Electromedical, electrotherapeutic, and irradiation apparatus manufacturing	33451	54,121 i	31,296	22,825 i
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments manufacturing	33452	71,425	62,360	9,066
Measuring and control instruments manufacturing (not listed elsewhere)	33459	80,672	52,493	28,179
Electrical equipment, appliances, and components manufacturing	33500	189,130	115,089	74,041
Motor vehicles manufacturing	33610	706,303	584,674	121,629
Motor vehicle body and trailer manufacturing	33620	26,379	25,775	604
Motor vehicle parts manufacturing	33630	285,825	202,295	83,530
Aircraft manufacturing	33641	190,552	181,676	8,876
Aircraft engine and engine parts manufacturing	33642	60,580	35,596	24,984
Other aircraft parts and auxiliary equipment manufacturing	33643	67,859	56,031	11,828
Guided missiles, space vehicles, and related parts manufacturing	33644	51,007	46,742	4,265
Railroad rolling stock manufacturing	33651	14,083	8,576	5,507
Ship and boat building	33660	16,294	14,316	1,979
Motorcycle, bicycle, and parts manufacturing	33691	11,412	7,159	4,254
Military armored vehicle, tank, and tank components manufacturing	33692	18,531 i	15,853 i	2,678
All other transportation equipment manufacturing	33699	21,079	17,787	3,292
Furniture and related products manufacturing	33700	49,009	44,571	4,438
Medical equipment and supplies manufacturing	33910	271,160	184,756	86,404
Miscellaneous manufacturing not listed elsewhere (games, office supplies, slot machines, etc.)	33990	170,861	104,915	65,945 i
Merchant wholesalers, durable goods	42300	248,170	225,622	22,549
Merchant wholesalers, nondurable goods	42400	634,620	455,596	179,024
Wholesale electronic markets and agents and brokers (business to business)	42500	5,490	5,054	436
Retail trade (except electronic shopping and electronic auctions)	44000	538,965	482,991	55,973
Electronic shopping and electronic auctions	45411	191,588 - 272,515 i	191,589 i	0 - 80,926 i
Transportation	48000	264,546	210,354	54,192
Couriers, messengers, and express delivery services	49200	91,333	69,200	22,133
Warehousing and storage	49300	11,361	6,057	5,305
Newspaper, periodical, book, and directory publishers (except Internet)	51110	9,489	7,423	2,066
Software publishers (except Internet)	51120	245,769	149,358	96,411
Motion picture and sound recording (except Internet)	51200	37,342	32,886	4,456
Broadcasting (except Internet)	51500	151,282	126,166	25,116
Wired telecommunications carriers	51710	129,766	127,438	2,328
Wireless telecommunications carriers (except satellite)	51720	264,219	264,216	3 i
Satellite telecommunications	51740	53,289	53,217	72
Other telecommunications (not listed elsewhere)	51790	16,300	12,512	3,788
Data processing, hosting, and related services	51800	141,375	114,517	26,858
Cloud computing applications and Internet-based software services	51801	166,306	130,568	35,738
Other information services, including Internet publishing, broadcasting, and Web search portals	51910	190,606	113,585	77,022
Finance: banking and credit intermediation	52200	536,596	480,076	56,520
Securities, commodity contracts, and other financial investments and related activities, including funds and trusts	52310	119,259	98,369	20,890
Insurance carriers and related activities	52400	467,238	443,129	24,109 i
Real estate	53100	11,565	10,982	583
Rental and leasing services	53200	13,487	9,879	3,608
Lessors of nonfinancial intangible assets, including patent licensing	53300	1,900 - 82,827	1,901	0 - 80,926 i

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Legal, accounting, tax preparation, bookkeeping, and payroll services	54111	24,693	21,735	2,959	
Architectural, engineering, and related services	54130	101,367	83,802	17,565	
Specialized design services	54140	26,260	7,649	18,610	
Computer systems design and related services	54150	250,286	154,122	96,164	
Management, scientific, and technical consulting services	54160	68,839	49,138	19,701	
Research and development services in social sciences and humanities	54172	941	934	7	
Research and development services in biotechnology	54173	13,423	9,647	3,776	
Research and development services in physical, engineering, and life sciences (except biotechnology)	54174	41,792	31,645	10,147	i
Advertising and related services	54180	140,299	72,990	67,309	
Professional, scientific, and technical services (not listed elsewhere)	54190	21,508	16,673	4,835	
Management of companies and enterprises	55100	13,915	12,189	1,726	
Administrative and support services	56100	67,113	38,604	28,509	
Waste management and remediation services	56200	88,601	84,236	4,365	
Offices of physicians	62110	50,988	50,988	0	
Medical and diagnostic laboratories	62150	39,529	35,208	4,322	i
Other ambulatory health care services (ambulance, dental, home health care)	62199	10,100	9,923	177	
Hospitals and nursing care facilities	62200	35,131	35,130	1	i
Social assistance services	62400	1,826	1,826	0	
Arts, entertainment, and recreation	71000	34,740	26,599	8,141	
Accommodation and food services	72000	54,778	33,862	20,916	
Other services (not listed elsewhere)	81000	95,526	69,952	25,574	
Less: intersegment eliminations	-	262,685	160,370	102,316	
Undistributed	-	8	8	0	i

i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

^a Data are tabulated independent of the industry classification of the company. Companies were asked to report their sales and R&D activity in one or more business activity codes.^b Business codes and descriptions are based on 2012 North American Industry Classification System industry definitions.**Note(s):**

Domestic sales are the amount of sales that originated from domestic operations. Foreign sales are the amount of sales that originated from foreign operations. Detail may not add to total because of rounding. For companies that did not report business codes, the classification used for sampling was assigned. Beginning in survey year 2018, statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

Source(s):

National Center for Science and Engineering Statistics and U.S. Census Bureau, Business Research and Development Survey, 2018.