

TABLE 9

Worldwide, domestic, and foreign sales for companies located in the United States that performed or funded R&D, by business activity: 2019

(Millions of U.S. dollars)

Business activity ^a	Business code ^b	Sales		
		Worldwide	Domestic	Foreign
All business activities	21100–81000	14,897,629	11,180,864	3,716,765
Oil and gas extraction	21100	134,817	76,461	58,356
Mining	21200	18,446	16,249	2,197
Support activities for mining, including oil and gas	21300	89,977	52,988	36,989
Utilities	22100	304,374	299,499	4,875
Construction	23000	94,478	86,185	8,293
Food manufacturing	31100	779,512	565,706	213,805
Beverage manufacturing	31210	119,563	78,304	41,260
Tobacco manufacturing	31220	70,749	38,302	32,447
Textile, apparel, and leather products manufacturing	31990	77,152	52,980	24,172
Wood products manufacturing	32100	41,886	35,775	6,111
Paper manufacturing	32200	157,322	121,784	35,538
Printing and related support activities	32300	65,659 i	55,322 i	10,337 i
Petroleum refineries	32401	565,617	362,033	203,584
Asphalt paving, roofing, and saturated materials manufacturing	32402	18,425	12,625	5,800
Other petroleum and coal products manufacturing, including motor oil, hydraulic fluid, and charcoal	32403	11,434	10,453	981
Basic chemicals manufacturing	32510	229,696	162,308	67,388
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	32520	111,490	71,464	40,026
Pesticide, fertilizer, and other agricultural chemicals manufacturing	32530	67,393	55,221	12,172
Pharmaceutical, medicinal, botanical, and biological products (except diagnostic substances) manufacturing	32541	556,641	390,793	165,848
In vitro diagnostic substances manufacturing	32542	16,743	9,203	7,540
Biotechnology-based pharmaceutical and biological products (except diagnostic substances)	32543	125,658	110,171	15,487
Soap, cleaning compound, and toilet preparations manufacturing	32591	178,605	98,956	79,648
Paint, adhesive, and other chemical manufacturing	32592	122,390	79,963	42,427
Plastics and rubber products manufacturing	32600	208,281	147,611	60,670
Clay and glass products manufacturing	32710	39,831	24,278	15,553 i
Cement, concrete, lime, gypsum, and other nonmetallic mineral products manufacturing	32790	46,774	40,945	5,829
Primary metal manufacturing	33100	152,375	124,730	27,645
Fabricated metal products manufacturing	33200	181,995	131,704	50,291
Agricultural machinery and equipment manufacturing	33311	64,372	36,555	27,817
Construction machinery manufacturing	33312	80,265	49,639	30,626
Mining, oil, and gas field machinery and equipment manufacturing	33319	68,949	41,577	27,372
Semiconductor machinery manufacturing	33321	45,318	24,628	20,690
Industrial machinery manufacturing (except semiconductor machinery)	33322	38,121	28,420	9,702
Photographic and photocopying equipment manufacturing	33331	836	710	127
Commercial, service industry, temperature control, and air-flow control machinery manufacturing	33332	115,672	80,311	35,361
Digital cameras manufacturing	33333	3,382	1,765	1,617
Engine, turbine, and power transmission equipment manufacturing	33360	107,601	55,906	51,695
Metalworking and other general purpose machinery manufacturing	33390	101,485	75,149	26,336
Computers and peripheral equipment manufacturing and magnetic and optical media	33412	457,916	212,050	245,866
Telephone apparatus manufacturing, including routers, modems, and gateways	33421	79,503	44,013	35,490
Radio, television, and wireless communication equipment manufacturing	33422	37,126	30,687	6,439 i

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Other communication equipment manufacturing (except radio, television, and wireless communication equipment)	33429	16,059	14,584	1,476
Audio and video equipment manufacturing	33430	16,217	7,917	8,299
Semiconductor and other electronic components manufacturing	33440	465,467	224,875	240,592
Electromedical, electrotherapeutic, and irradiation apparatus manufacturing	33451	49,345	31,332	18,014
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments manufacturing	33452	73,069	62,412	10,658
Measuring and control instruments manufacturing (not listed elsewhere)	33459	84,362	55,700	28,662
Electrical equipment, appliances, and components manufacturing	33500	222,663	145,801	76,861
Motor vehicles manufacturing	33610	529,227	406,293	122,934
Motor vehicle body and trailer manufacturing	33620	45,991	44,214	1,777
Motor vehicle parts manufacturing	33630	278,559	182,796	95,763
Aircraft manufacturing	33641	144,831	139,088	5,743
Aircraft engine and engine parts manufacturing	33642	54,264	32,679	21,585
Other aircraft parts and auxiliary equipment manufacturing	33643	58,491	47,652	10,839
Guided missiles, space vehicles, and related parts manufacturing	33644	35,217	32,444	2,774
Railroad rolling stock manufacturing	33651	13,506	8,091	5,415
Ship and boat building	33660	24,057	21,988	2,069
Motorcycle, bicycle, and parts manufacturing	33691	10,979	6,948	4,031
Military armored vehicle, tank, and tank components manufacturing	33692	15,405	13,848	1,557
All other transportation equipment manufacturing	33699	17,730	16,191	1,539
Furniture and related products manufacturing	33700	51,330	46,013	5,317
Medical equipment and supplies manufacturing	33910	301,096	200,226	100,869
Miscellaneous manufacturing not listed elsewhere (games, office supplies, slot machines, etc.)	33990	119,361	89,861	29,501
Merchant wholesalers, durable goods	42300	165,955	149,138	16,817
Merchant wholesalers, nondurable goods	42400	602,072	445,786	156,286
Wholesale electronic markets and agents and brokers (business to business)	42500	5,340	5,089	251
Retail trade (except electronic shopping and electronic auctions)	44000	662,471	582,203	80,268
Electronic shopping and electronic auctions	45411	168,456 - 333,088	168,457	0 - 164,630
Transportation	48000	387,986	299,235	88,751
Couriers, messengers, and express delivery services	49200	2,034	2,014	20
Warehousing and storage	49300	15,949	8,413	7,536
Newspaper, periodical, book, and directory publishers (except Internet)	51110	7,147	5,585	1,562
Software publishers (except Internet)	51120	237,902	143,184	94,718
Motion picture and sound recording (except Internet)	51200	46,587	43,317	3,270
Broadcasting (except Internet)	51500	185,587	145,898	39,689
Wired telecommunications carriers	51710	139,262	137,035	2,226
Wireless telecommunications carriers (except satellite)	51720	264,976	264,971	5
Satellite telecommunications	51740	51,337	51,267	70
Other telecommunications (not listed elsewhere)	51790	19,438	13,883	5,555
Data processing, hosting, and related services	51800	98,036	69,214	28,822
Cloud computing applications and Internet-based software services	51801	218,846	169,605	49,241
Other information services, including Internet publishing, broadcasting, and Web search portals	51910	219,808	124,726	95,082
Finance: banking and credit intermediation	52200	629,562	574,882	54,679
Securities, commodity contracts, and other financial investments and related activities, including funds and trusts	52310	97,896	67,833	30,063

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Insurance carriers and related activities	52400	1,069,279	1,031,450	37,830 i
Real estate	53100	17,104	16,881	223
Rental and leasing services	53200	12,743	8,259	4,484
Lessors of nonfinancial intangible assets, including patent licensing	53300	1,671	1,614	56
Legal, accounting, tax preparation, bookkeeping, and payroll services	54111	29,565	26,427	3,139
Architectural, engineering, and related services	54130	127,409	110,906	16,502
Specialized design services	54140	12,640	3,752	8,888
Computer systems design and related services	54150	238,778	149,589	89,189
Management, scientific, and technical consulting services	54160	57,882	49,880	8,002 i
Research and development services in social sciences and humanities	54172	1,233	1,144	89
Research and development services in biotechnology	54173	13,214	9,066	4,148
Research and development services in physical, engineering, and life sciences (except biotechnology)	54174	49,481	38,427	11,054 i
Advertising and related services	54180	84,177 - 248,809	84,178	0 - 164,630
Professional, scientific, and technical services (not listed elsewhere)	54190	23,046	19,061	3,986 i
Management of companies and enterprises	55100	13,249	13,209	40
Administrative and support services	56100	89,404	62,356	27,048
Waste management and remediation services	56200	11,623	11,342	281
Offices of physicians	62110	102,792	102,792	0
Medical and diagnostic laboratories	62150	38,599	34,462	4,136 i
Other ambulatory health care services (ambulance, dental, home health care)	62199	22,807	22,613	194
Hospitals and nursing care facilities	62200	25,795	25,795	0
Social assistance services	62400	108	108	0
Arts, entertainment, and recreation	71000	37,623	31,887	5,736
Accommodation and food services	72000	84,334	56,337	27,997
Other services (not listed elsewhere)	81000	109,756	90,936	18,820 i
Less: intersegment eliminations	-	182,972	117,720	65,252
Undistributed	-	0	0	0

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. This change has affected the comparability of these estimates with estimates published for years prior to 2018. 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 Census Bureau, Business Enterprise Research and Development Survey, 2019.