

TABLE 9

Worldwide, domestic, and foreign sales for companies located in the United States that performed or funded R&D, by business activity: 2021

(Millions of U.S. dollars)

Business activity ^a	Business code ^b	Sales		
		Worldwide	Domestic	Foreign
All business activities	21100-81000	17,410,590	13,097,756	4,312,834
Oil and gas extraction	21100	189,343	118,647	70,696
Mining	21200	85,707	37,647	48,060
Support activities for mining, including oil and gas	21300	45,307	30,030	15,276
Utilities	22100	344,086	340,381	3,705
Construction	23000	84,600	80,164	4,437
Food manufacturing	31100	919,547	676,826	242,721
Beverage manufacturing	31210	206,419	141,303	65,115
Tobacco manufacturing	31220	59,978	22,846	37,132
Textile, apparel, and leather products manufacturing	31990	91,292	64,054	27,238
Wood products manufacturing	32100	68,558	63,266	5,291
Paper manufacturing	32200	151,395	118,821	32,573
Printing and related support activities	32300	35,800	30,837	4,963
Petroleum refineries	32401	588,711	367,747	220,963
Asphalt paving, roofing, and saturated materials manufacturing	32402	24,933	20,762	4,171
Other petroleum and coal products manufacturing, including motor oil, hydraulic fluid, and charcoal	32403	14,687	11,595	3,091
Basic chemicals manufacturing	32510	331,658	229,364	102,294
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	32520	133,227	76,117	57,110
Pesticide, fertilizer, and other agricultural chemicals manufacturing	32530	78,109	68,671	9,438
Pharmaceutical, medicinal, botanical, and biological products (except diagnostic substances) manufacturing	32541	839,753	615,406	224,347
In vitro diagnostic substances manufacturing	32542	19,811	10,883	8,928
Biotechnology-based pharmaceutical and biological products (except diagnostic substances)	32543	155,385	118,135	37,250
Soap, cleaning compound, and toilet preparations manufacturing	32591	181,410	103,084	78,326
Paint, adhesive, and other chemical manufacturing	32592	126,384	80,271	46,113
Plastics and rubber products manufacturing	32600	271,663	202,034	69,629
Clay and glass products manufacturing	32710	41,741	26,769	14,972
Cement, concrete, lime, gypsum, and other nonmetallic mineral products manufacturing	32790	44,069	36,887	7,183
Primary metal manufacturing	33100	137,595	115,715	21,880
Fabricated metal products manufacturing	33200	484,400	408,141	76,258
Agricultural machinery and equipment manufacturing	33311	68,463	43,538	24,924
Construction machinery manufacturing	33312	76,105	46,519	29,585
Mining, oil, and gas field machinery and equipment manufacturing	33319	51,236	28,140	23,096
Semiconductor machinery manufacturing	33321	67,019	28,910	38,109
Industrial machinery manufacturing (except semiconductor machinery)	33322	60,068	47,208	12,860
Photographic and photocopying equipment manufacturing	33331	1,389	1,196	194
Commercial, service industry, temperature control, and air-flow control machinery manufacturing	33332	113,315	78,388	34,927
Digital cameras manufacturing	33333	2,079	1,987	92
Engine, turbine, and power transmission equipment manufacturing	33360	129,923	67,284	62,639
Metalworking and other general purpose machinery manufacturing	33390	123,723	85,232	38,491
Computers and peripheral equipment manufacturing and magnetic and optical media	33412	544,417	240,413	304,004
Telephone apparatus manufacturing, including routers, modems, and gateways	33421	72,948	40,402	32,546
Radio, television, and wireless communication equipment manufacturing	33422	44,090	36,858	7,231

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Other communication equipment manufacturing (except radio, television, and wireless communication equipment)	33429	11,023	8,182	2,841
Audio and video equipment manufacturing	33430	12,414	9,270	3,145
Semiconductor and other electronic components manufacturing	33440	451,443	236,165	215,279
Electromedical, electrotherapeutic, and irradiation apparatus manufacturing	33451	41,958	27,944	14,014
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments manufacturing	33452	36,390	33,469	2,921
Measuring and control instruments manufacturing (not listed elsewhere)	33459	109,876	70,193	39,683
Electrical equipment, appliances, and components manufacturing	33500	204,520	132,548	71,971
Motor vehicles manufacturing	33610	482,782	348,358	134,424
Motor vehicle body and trailer manufacturing	33620	40,201	35,524	4,676
Motor vehicle parts manufacturing	33630	289,837	174,755	115,082
Aircraft manufacturing	33641	112,168	105,780	6,387
Aircraft engine and engine parts manufacturing	33642	101,036	70,572	30,464
Other aircraft parts and auxiliary equipment manufacturing	33643	59,199	50,612	8,587
Guided missiles, space vehicles, and related parts manufacturing	33644	45,508	42,741	2,767
Railroad rolling stock manufacturing	33651	14,276	10,646	3,630
Ship and boat building	33660	20,558	18,408	2,150
Motorcycle, bicycle, and parts manufacturing	33691	13,464	6,788	6,676
Military armored vehicle, tank, and tank components manufacturing	33692	17,819	16,026	1,793
All other transportation equipment manufacturing	33699	18,746	16,621	2,124
Furniture and related products manufacturing	33700	53,564	46,172	7,392
Medical equipment and supplies manufacturing	33910	354,587	233,592	120,995
Miscellaneous manufacturing not listed elsewhere (games, office supplies, slot machines, etc.)	33990	148,520	100,515	48,004
Merchant wholesalers, durable goods	42300	273,073	246,611	26,461
Merchant wholesalers, nondurable goods	42400	1,244,756	1,047,955	196,801
Wholesale electronic markets and agents and brokers (business to business)	42500	26,909	26,624	285
Retail trade (except electronic shopping and electronic auctions)	44000	612,483	564,943	47,540
Electronic shopping and electronic auctions	45411	177,183 - 451,673	177,184	0 - 274,489
Transportation	48000	262,617	206,420	56,197
Couriers, messengers, and express delivery services	49200	77,787 - 352,277	77,788	0 - 274,489
Warehousing and storage	49300	3,820 - 278,310	3,821	0 - 274,489
Newspaper, periodical, book, and directory publishers (except Internet)	51110	7,116	5,427	1,690
Software publishers (except Internet)	51120	261,541	163,090	98,450
Motion picture and sound recording (except Internet)	51200	37,689	36,551	1,138
Broadcasting (except Internet)	51500	161,160	125,414	35,746
Wired telecommunications carriers	51710	156,938	153,019	3,919
Wireless telecommunications carriers (except satellite)	51720	275,173	274,485	688
Satellite telecommunications	51740	34,165	32,956	1,208
Other telecommunications (not listed elsewhere)	51790	15,314	14,546	767
Data processing, hosting, and related services	51800	139,242	91,782	47,460
Cloud computing applications and Internet-based software services	51801	347,399	253,071	94,328
Other information services, including Internet publishing, broadcasting, and Web search portals	51910	337,368	184,891	152,477
Finance: banking and credit intermediation	52200	647,339	581,988	65,351

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Securities, commodity contracts, and other financial investments and related activities, including funds and trusts	52310	160,242	127,753	32,489
Insurance carriers and related activities	52400	956,121	938,357	17,764
Real estate	53100	28,907	28,905	1
Rental and leasing services	53200	35,633	25,953	9,680
Lessors of nonfinancial intangible assets, including patent licensing	53300	8,950	7,112	1,838
Legal, accounting, tax preparation, bookkeeping, and payroll services	54111	30,913	28,216	2,697
Architectural, engineering, and related services	54130	122,015	106,100	15,915
Specialized design services	54140	543	489	55
Computer systems design and related services	54150	276,104	196,449	79,654
Management, scientific, and technical consulting services	54160	72,593	66,367	6,226
Research and development services in the social sciences and humanities	54172	1,545	1,543	1
Research and development services in biotechnology	54173	18,474	12,334	6,140
Research and development services in the physical, engineering, and life sciences (except biotechnology)	54174	61,543	46,153	15,390
Research and development services in nanotechnology	54175	317	315	2
Advertising and related services	54180	136,087 - 410,577	136,088	0 - 274,489
Professional, scientific, and technical services (not listed elsewhere)	54190	31,870	28,758	3,112
Management of companies and enterprises	55100	13,688	13,584	104
Administrative and support services	56100	63,477	54,124	9,353
Waste management and remediation services	56200	18,548	17,919	629
Offices of physicians	62110	46,737	46,737	0
Medical and diagnostic laboratories	62150	59,662	54,021	5,641
Other ambulatory health care services (ambulance, dental, home health care)	62199	35,085	28,942	6,143
Hospitals and nursing care facilities	62200	20,567	20,567	0
Social assistance services	62400	98	98	0
Arts, entertainment, and recreation	71000	17,999	16,119	1,880
Accommodation and food services	72000	66,202	43,144	23,058
Other services (not listed elsewhere)	81000	245,169	172,482	72,687
Less: intersegment eliminations	-	242,276	146,835	95,441
Undistributed	-	0	0	0

i = more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse; r = relative standard error is more than 50%.

^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 2017 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. Statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D and are not comparable 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, 2021.