

TABLE 9

Worldwide, domestic, and foreign sales for companies located in the United States that performed or funded R&D, by business activity: 2022

(Millions of U.S. dollars)

Business activity ^a	Business code ^b	Sales		
		Worldwide	Domestic	Foreign
All business activities	21100–81000	18,865,332	14,184,308	4,681,024
Oil and gas extraction	21100	275,133	163,855	111,278
Mining	21200	37,560 i	37,098 i	462
Support activities for mining, including oil and gas	21300	229,576 i	142,631 i	86,945 i
Utilities	22100	386,256	381,945	4,311
Construction	23000	95,779	91,210	4,569
Food manufacturing	31100	1,066,413	798,579	267,834
Beverage manufacturing	31210	191,226	115,934	75,293
Tobacco manufacturing	31220	79,958	45,741	34,216
Textile, apparel, and leather products manufacturing	31990	80,551	60,625	19,926
Wood products manufacturing	32100	72,546	67,441	5,105
Paper manufacturing	32200	157,882	124,483	33,400
Printing and related support activities	32300	35,490	29,142	6,348
Petroleum refineries	32401	826,911	524,316	302,595
Asphalt paving, roofing, and saturated materials manufacturing	32402	15,062	13,970	1,092
Other petroleum and coal products manufacturing, including motor oil, hydraulic fluid, and charcoal	32403	24,621	19,780	4,841
Basic chemicals manufacturing	32510	324,442	218,383	106,058
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	32520	157,618	97,304	60,314
Pesticide, fertilizer, and other agricultural chemicals manufacturing	32530	92,610	77,915	14,695
Pharmaceutical, medicinal, botanical, and biological products (except diagnostic substances) manufacturing	32541	920,920	695,247	225,673
In vitro diagnostic substances manufacturing	32542	22,958	12,587	10,371 i
Biotechnology-based pharmaceutical and biological products (except diagnostic substances)	32543	155,946	121,621	34,325
Soap, cleaning compound, and toilet preparations manufacturing	32591	205,686	114,703	90,983
Paint, adhesive, and other chemical manufacturing	32592	147,517	89,469	58,049
Plastics and rubber products manufacturing	32600	291,741	219,412	72,329
Clay and glass products manufacturing	32710	53,398	32,522	20,876
Cement, concrete, lime, gypsum, and other nonmetallic mineral products manufacturing	32790	47,659	41,983	5,676
Primary metal manufacturing	33100	190,656	165,814	24,843
Fabricated metal products manufacturing	33200	289,113	223,838	65,275
Agricultural machinery and equipment manufacturing	33311	116,944	87,131	29,813
Construction machinery manufacturing	33312	96,367	65,182	31,186
Mining, oil, and gas field machinery and equipment manufacturing	33319	58,825	33,391	25,434
Semiconductor machinery manufacturing	33321	78,428	32,719	45,709
Industrial machinery manufacturing (except semiconductor machinery)	33322	45,172	34,475	10,697
Photographic and photocopying equipment manufacturing	33331	1,504	1,310	194
Commercial, service industry, temperature control, and air-flow control machinery manufacturing	33332	141,474	102,937	38,538
Digital cameras manufacturing	33333	1,862	1,751	111
Engine, turbine, and power transmission equipment manufacturing	33360	131,474	71,986	59,488
Metalworking and other general purpose machinery manufacturing	33390	112,404	76,483	35,920
Computers and peripheral equipment manufacturing and magnetic and optical media	33412	582,618	259,306	323,312
Telephone apparatus manufacturing, including routers, modems, and gateways	33421	73,401	41,700	31,701
Radio, television, and wireless communication equipment manufacturing	33422	52,154	43,975	8,179

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Other communication equipment manufacturing (except radio, television, and wireless communication equipment)	33429	12,125	9,153	2,971
Audio and video equipment manufacturing	33430	10,567	7,750	2,817
Semiconductor and other electronic components manufacturing	33440	464,211	215,736	248,474
Electromedical, electrotherapeutic, and irradiation apparatus manufacturing	33451	45,547	31,452	14,095
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments manufacturing	33452	79,806	65,564	14,242
Measuring and control instruments manufacturing (not listed elsewhere)	33459	107,583	68,690	38,893
Electrical equipment, appliances, and components manufacturing	33500	212,115	155,881	56,234
Motor vehicles manufacturing	33610	802,708	646,444	156,263
Motor vehicle body and trailer manufacturing	33620	49,712	45,343	4,370
Motor vehicle parts manufacturing	33630	305,466	188,088	117,378
Aircraft manufacturing	33641	110,740	105,653	5,087
Aircraft engine and engine parts manufacturing	33642	61,021	43,526	17,494
Other aircraft parts and auxiliary equipment manufacturing	33643	60,734	50,348	10,386
Guided missiles, space vehicles, and related parts manufacturing	33644	71,703	69,381	2,322
Railroad rolling stock manufacturing	33651	18,751	14,057	4,694
Ship and boat building	33660	24,871	22,844	2,027
Motorcycle, bicycle, and parts manufacturing	33691	15,840	9,683	6,158
Military armored vehicle, tank, and tank components manufacturing	33692	9,620	8,817	804
All other transportation equipment manufacturing	33699	19,355	16,896	2,459
Furniture and related products manufacturing	33700	45,066	40,303	4,763
Medical equipment and supplies manufacturing	33910	357,531	233,231	124,300
Miscellaneous manufacturing not listed elsewhere (games, office supplies, slot machines, etc.)	33990	118,100	86,126	31,974
Merchant wholesalers, durable goods	42300	229,972	211,711	18,261
Merchant wholesalers, nondurable goods	42400	1,334,714	1,113,372	221,342
Wholesale electronic markets and agents and brokers (business to business)	42500	19,093	18,811	282
Retail trade (except electronic shopping and electronic auctions)	44000	709,793	663,944	45,849
Electronic shopping and electronic auctions	45411	289,431	201,078	88,353
Transportation	48000	349,211	268,274	80,937
Couriers, messengers, and express delivery services	49200	136,529	89,141	47,388
Warehousing and storage	49300	9,583	7,198	2,385
Newspaper, periodical, book, and directory publishers (except Internet)	51110	6,805	5,408	1,397
Software publishers (except Internet)	51120	337,227	234,972	102,254
Motion picture and sound recording (except Internet)	51200	12,890	11,525	1,365
Broadcasting (except Internet)	51500	158,111	132,670	25,442
Wired telecommunications carriers	51710	155,830	152,529	3,301
Wireless telecommunications carriers (except satellite)	51720	285,959	280,885	5,074
Satellite telecommunications	51740	19,759	19,185	574
Other telecommunications (not listed elsewhere)	51790	13,999	13,448	551
Data processing, hosting, and related services	51800	124,648	93,420	31,228
Cloud computing applications and Internet-based software services	51801	420,679	306,220	114,459
Other information services, including Internet publishing, broadcasting, and Web search portals	51910	382,286	208,969	173,318
Finance: banking and credit intermediation	52200	619,954	545,867	74,087
Securities, commodity contracts, and other financial investments and related activities, including funds and trusts	52310	152,571	117,734	34,837
Insurance carriers and related activities	52400	695,361	673,915	21,446
Real estate	53100	41,353	41,353	*

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Rental and leasing services	53200	52,555	42,843	9,712
Lessors of nonfinancial intangible assets, including patent licensing	53300	2,956	1,806	1,150
Legal, accounting, tax preparation, bookkeeping, and payroll services	54111	35,086	32,895	2,190
Architectural, engineering, and related services	54130	113,539	96,845	16,694
Specialized design services	54140	D	6,853	D
Computer systems design and related services	54150	269,016	177,086	91,929
Management, scientific, and technical consulting services	54160	88,637	70,657	17,980
Research and development services in the social sciences and humanities	54172	1,431	1,425	6
Research and development services in biotechnology	54173	16,585	11,551	5,034
Research and development services in the physical, engineering, and life sciences (except biotechnology)	54174	64,757	49,874	14,883
Research and development services in nanotechnology	54175	570	568	2
Advertising and related services	54180	D	145,767	D
Professional, scientific, and technical services (not listed elsewhere)	54190	41,536	37,294	4,242
Management of companies and enterprises	55100	13,644	13,623	21
Administrative and support services	56100	98,358	85,197	13,161
Waste management and remediation services	56200	1,481	1,479	3
Offices of physicians	62110	40,303	40,282	22
Medical and diagnostic laboratories	62150	64,051	56,103	7,948
Other ambulatory health care services (ambulance, dental, home health care)	62199	22,210	21,668	542
Hospitals and nursing care facilities	62200	15,163	15,163	0
Social assistance services	62400	123	123	0
Arts, entertainment, and recreation	71000	33,195	29,365	3,830
Accommodation and food services	72000	61,543	56,323	5,220
Other services (not listed elsewhere)	81000	286,430	205,741	80,689
Less: intersegment eliminations	-	228,057	142,712	85,344
Undistributed	-	0	0	0

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = more than 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 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.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2022.