

TABLE 8

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

(Millions of U.S. dollars)

Industry and company size	NAICS code	Sales					
		R&D performers or funders ^a			Domestic R&D performers ^b		
		Worldwide	Domestic	Foreign	Worldwide	Domestic	Foreign
All industries	21–23, 31–33, 42–81	17,410,590	13,097,756	4,312,834	17,076,511	12,781,213	4,295,299
Manufacturing industries	31–33	9,474,183	6,550,600	2,923,583	9,431,968	6,518,061	2,913,906
Food	311	959,114	699,100	260,015	955,137	695,249	259,888
Beverage and tobacco products	312	312,090	184,855	127,235	311,910	184,675	127,235
Textile, apparel, and leather products	313–16	101,340	72,498	28,842	101,102	72,260	28,842
Wood products	321	72,241	69,069	3,172	72,241	69,069	3,172
Paper	322	117,593	94,660	22,933	117,492	94,559	22,933
Printing and related support activities	323	37,320	32,908	4,411	36,710	32,299	4,411
Petroleum and coal products	324	540,836	300,799	240,037	540,836	300,799	240,037
Chemicals	325	1,857,937	1,309,684	548,253	1,853,741	1,305,639	548,101
Basic chemicals	3251	407,786	326,148	81,638	407,738	326,100	81,638
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	122,736	66,698	56,038	122,591	66,552	56,038
Pesticide, fertilizer, and other agricultural chemicals	3253	113,700	108,341	5,359	111,526	106,167	5,359
Pharmaceuticals and medicines	3254	897,407	624,341	273,066	895,578	622,664	272,915
Soap, cleaning compound, and toilet preparations	3256	217,969	123,539	94,429	217,969	123,539	94,429
Paint, coating, adhesive, and other chemicals	3255, 3259	98,340	60,617	37,722	98,340	60,617	37,722
Plastics and rubber products	326	288,759	233,565	55,194	287,024	231,851	55,173
Nonmetallic mineral products	327	70,128	54,266	15,862	61,346	48,569	12,777
Primary metals	331	127,688	107,737	19,950	125,962	106,436	19,526
Fabricated metal products	332	473,815	406,687	67,128	466,610	402,537	64,073
Machinery	333	699,771	427,096	272,674	698,394	425,720	272,674
Agricultural implement	33311	89,329	57,353	31,976	88,681	56,705	31,976
Semiconductor machinery	333242	68,200	29,820	38,380	68,200	29,820	38,380
Engine, turbine, and power transmission equipment	3336	78,832	45,538	33,294	78,832	45,538	33,294
Other machinery	other 333	463,410	294,385	169,025	462,682	293,657	169,025
Computer and electronic products	334	1,405,542	778,262	627,280	1,403,818	777,689	626,129
Communications equipment	3342	147,980	103,649	44,331	146,541	103,288	43,253
Semiconductor and other electronic components	3344	407,635	232,353	175,282	407,534	232,292	175,242
Navigational, measuring, electromedical, and control instruments	3345	227,762	156,383	71,378	227,649	156,279	71,370
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	23,039	16,544	6,495	23,039	16,544	6,495
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	61,156	45,973	15,184	61,063	45,888	15,175
Other measuring and controlling devices	other 3345	143,567	93,867	49,700	143,547	93,847	49,700
Other computer and electronic products	other 334	622,165	285,877	336,288	622,094	285,830	336,264

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		Worldwide	Domestic	Foreign	Worldwide	Domestic	Foreign
Electrical equipment, appliances, and components	335	236,964	156,050	80,914	234,638	154,016	80,622
Transportation equipment	336	1,350,804	1,014,159	336,645	1,346,440	1,010,848	335,592
Motor vehicles, bodies, trailers, and parts	3361-63	888,822	623,254	265,569	884,606 - 885,787	620,088 - 621,269	264,518
Aerospace products and parts	3364	365,918	311,988	53,930	365,878	311,948	53,930
Aircraft, aircraft engine, and aircraft parts	336411-13	354,143	300,727	53,416	354,106	300,690	53,416
Guided missile, space vehicle, and related parts	336414-15, 336419	11,775	11,260	515	11,772	11,257	515
Military armored vehicle, tank, and tank components	336992	1,177	1,177	0	0 - 1,178	0 - 1,178	0
Other transportation	other 336	94,886	77,740	17,146	94,777	77,633	17,144
Furniture and related products	337	49,326	42,479	6,847	45,673	39,141	6,532
Miscellaneous	339	772,915	566,725	206,190	772,896	566,705	206,190
Medical equipment and supplies	3391	571,023	428,400	142,624	571,023	428,400	142,624
Other miscellaneous manufacturing	3399	201,891	138,325	63,567	201,872	138,306	63,567
Nonmanufacturing industries	21-23, 42-81	7,936,408	6,547,157	1,389,251	7,644,544	6,263,152	1,381,392
Mining, quarrying, oil and gas extraction, and support activities	21	359,564	197,599	161,965	359,368	197,404	161,965
Utilities	22	353,090	347,098	5,992	298,643	292,651	5,992
Wholesale trade	42	888,356 i	828,436 i	59,920 i	868,502 i	808,930 i	59,572 i
Electronic shopping and electronic auctions	454111-12	415,397 - 642,325	415,398	226,927	415,397 - 642,325	415,398	0 - 226,927
Transportation and warehousing	48-49	320,872	247,004	73,868	320,779	246,912	73,868
Information	51	2,304,582	1,703,835	600,747	2,301,822	1,701,144	600,678
Publishing	511	488,248	305,155	183,093	487,057 - 487,093	304,035	183,022 - 183,057
Newspaper, periodical, book, and directory publishers	5111	2,092	2,021	71	1,893 - 1,929	1,857	37 - 72
Software publishers	5112	486,157	303,134	183,022	485,164	302,178	182,985
Telecommunications	517	514,506	503,320	11,186	513,155	501,969	11,186
Data processing, hosting, and related services	518	717,610	562,172	155,438	717,610	562,172	155,438
Other information	other 51	584,218	333,189	251,030	583,963 - 583,999	332,968	250,996 - 251,030
Finance and insurance	52	1,628,377	1,537,769	90,608	1,427,487	1,343,646	83,841
Real estate and rental and leasing	53	51,379	45,471	5,908	51,324	45,416	5,908
Lessors of nonfinancial intangible assets (except copyrighted works)	533	54 - 51,380	45,472	0 - 5,909	0 - 51,325	0 - 45,417	0 - 5,909
Other real estate and rental and leasing	other 53	0 - 51,325	0 - 45,417	0 - 5,909	0 - 51,325	0 - 45,417	0 - 5,909
Professional, scientific, and technical services	54	645,708	483,784	161,924	643,207	481,659	161,547

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Architectural, engineering, and related services	5413	95,539	77,750	17,788	94,278	76,775	17,503
Computer systems design and related services	5415	287,374	199,429	87,945	286,829	198,923	87,907
Scientific research and development services	5417	104,259	82,907	21,352	104,038	82,720	21,318
Research and development in nanotechnology	541713	450	425	26	267	265	2
Research and development in biotechnology (except nanobiotechnology)	541714	33,560	27,137	6,423	33,552	27,129	6,423
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	68,852	53,949	14,902	68,822	53,929	14,892
Research and development in the social sciences and humanities	541720	1,397	1,396	1	1,397	1,396	1
Other professional, scientific, and technical services	other 54	158,536	123,698	34,838	158,061	123,242	34,819
Health care services	621-23	101,646	100,547	1,099	101,497	100,398	1,099
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	640,509 - 867,441	640,216	293 - 227,225	629,593 - 856,521	629,594	0 - 226,927
All companies (number of domestic employees)	-	17,410,590	13,097,756	4,312,834	17,076,511	12,781,213	4,295,299
Small companies							
10-19 ^c	-	36,642	35,815	827	34,129	33,639	490
20-49	-	113,461	104,550	8,912	109,909	101,049	8,860
Medium companies							
50-99	-	153,948	146,296	7,652	151,367	143,787	7,580
100-249	-	441,632	381,256	60,376	432,115	373,353	58,761
Large companies							
250-499	-	430,278	371,747	58,531	419,326	362,389	56,937
500-999	-	588,411	499,161	89,251	571,432	482,516	88,916
1,000-4,999	-	2,525,746	2,000,807	524,939	2,508,165	1,985,494	522,670
5,000-9,999	-	1,945,126	1,536,766	408,360	1,903,310	1,499,137	404,173
10,000-24,999	-	3,283,908	2,240,551	1,043,357	3,280,288	2,237,247	1,043,041
25,000 or more	-	7,891,437	5,780,807	2,110,630	7,666,471	5,562,602	2,103,868

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%.

NAICS = 2017 North American Industry Classification System.

^a Statistics are representative of companies located in the United States that performed or funded R&D.^b Statistics are representative of companies located in the United States that performed R&D.^c The Business Enterprise Research and Development Survey does not include companies with fewer than 10 domestic employees.

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. Industry classification is based on the dominant business code for domestic R&D performance, where available. 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.