

**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: 2023**

(Millions of U.S. dollars)

Industry and company size	NAICS code	Sales					
		R&D performers or funders <sup>a</sup>			Domestic R&D performers <sup>b</sup>		
		Worldwide	Domestic	Foreign	Worldwide	Domestic	Foreign
All industries	21-23, 31-33, 42-81	18,569,231	14,019,323	4,549,908	18,441,749	13,897,383	4,544,366
Manufacturing industries	31-33	10,249,218	7,173,082	3,076,137	10,210,536	7,139,067	3,071,469
Food	311	1,191,051	837,140	353,911	1,187,576	833,891	353,685
Beverage and tobacco products	312	272,382	174,416	97,966	269,428	171,462	97,966
Textile, apparel, and leather products	313-16	107,388	71,803	35,585	D	70,513	D
Wood products	321	62,398	58,413	3,984	62,273	58,288	3,984
Paper	322	114,194	93,680	20,514	114,194	93,680	20,514
Printing and related support activities	323	39,714	33,980	5,734	39,656	33,922	5,734
Petroleum and coal products	324	788,515	515,979	272,536	788,413	515,877	272,536
Chemicals	325	1,785,931	1,286,095	499,836	1,782,299	1,283,116	499,183
Basic chemicals	3251	307,031	217,169	89,863	306,666	216,830	89,837
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	109,043	64,455	44,588	109,043	64,455	44,588
Pesticide, fertilizer, and other agricultural chemicals	3253	119,214	99,091	20,122	D	D	20,122
Pharmaceuticals and medicines	3254	922,702	706,611	216,091	D	705,909	D
Soap, cleaning compound, and toilet preparations	3256	227,902	132,189	95,714	D	131,926	D
Paint, coating, adhesive, and other chemicals	3255, 3259	100,038	66,580	33,458	D	D	33,458
Plastics and rubber products	326	262,475	213,844	48,632	258,318	209,686	48,632
Nonmetallic mineral products	327	62,134	49,969	12,165	61,475	49,310	12,165
Primary metals	331	175,042	147,484	27,558	164,001	136,844	27,158
Fabricated metal products	332	212,306	183,721	28,585	211,755	183,318	28,437
Machinery	333	860,053	546,100	313,953	854,011	542,794	311,217
Agricultural implement	33311	113,636	75,655	37,981	113,636	75,655	37,981
Semiconductor machinery	333242	75,221	31,983	43,238	75,084	31,846	43,238
Engine, turbine, and power transmission equipment	3336	183,473	101,698	81,774	183,473	101,698	81,774
Other machinery	other 333	487,723	336,764	150,959	481,817	333,595	148,223
Computer and electronic products	334	1,430,846	692,178	738,669	D	690,038	D
Communications equipment	3342	145,517	100,659	44,858	D	98,868	D
Semiconductor and other electronic components	3344	471,367	193,953	277,414	471,313	193,898	277,414
Navigational, measuring, electromedical, and control instruments	3345	183,735	129,517	54,218	183,432	129,222	54,210
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	51,027	40,762	10,265	50,858	40,593	10,265
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	35,977	32,280	3,697	35,892	32,202	3,690
Other measuring and controlling devices	other 3345	96,731	56,475	40,256	96,683	56,427	40,256
Other computer and electronic products	other 334	630,228	268,049	362,178	630,228	268,049	362,178

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		Worldwide	Domestic	Foreign	Worldwide	Domestic	Foreign
Electrical equipment, appliances, and components	335	218,922	168,547	50,375	218,801	168,425	50,375
Transportation equipment	336	1,844,917	1,476,893	368,024	1,843,480	1,475,456	368,024
Motor vehicles, bodies, trailers, and parts	3361-63	1,284,119	1,014,847	269,272	D	D	269,272
Aerospace products and parts	3364	447,429	370,733	76,697	D	D	76,697
Aircraft, aircraft engine, and aircraft parts	336411-13	317,873	274,627	43,245	D	D	43,245
Guided missile, space vehicle, and related parts	336414-15, 336419	129,557	96,105	33,451	129,557	96,105	33,451
Military armored vehicle, tank, and tank components	336992	920	920	0	920	920	0
Other transportation	other 336	112,448	90,393	22,055	111,997	89,942	22,055
Furniture and related products	337	46,924	40,932	5,992	46,805	40,814	5,992
Miscellaneous	339	774,027	581,907	192,120	D	581,635	D
Medical equipment and supplies	3391	616,579	477,509	139,069	616,579	477,509	139,069
Other miscellaneous manufacturing	3399	157,449	104,398	53,051	D	104,125	D
Nonmanufacturing industries	21-23, 42-81	8,320,012	6,846,241	1,473,771	8,231,213	6,758,315	1,472,897
Mining, quarrying, oil and gas extraction, and support activities	21	319,485	184,550	134,935	319,485	184,550	134,935
Utilities	22	399,830	392,074	7,756	338,272	330,516	7,756
Wholesale trade	42	543,584	514,064	29,520	529,835	500,349	29,486
Electronic shopping and electronic auctions	454111-12	D	515,286	D	D	514,447	D
Transportation and warehousing	48-49	384,305	288,867	95,439	382,649	287,210	95,439
Information	51	2,527,101	1,897,855	629,246	2,525,160	1,896,051	629,109
Publishing	511	539,533	358,759	180,774	539,320	358,546	180,774
Newspaper, periodical, book, and directory publishers	5111	1,601	1,598	3	1,601	1,598	3
Software publishers	5112	537,932	357,161	180,771	537,719	356,948	180,771
Telecommunications	517	490,111	474,185	15,926	489,545	473,619	15,926
Data processing, hosting, and related services	518	723,509	621,619	101,890	722,580	620,828	101,753
Other information	other 51	773,948	443,292	330,656	773,715	443,059	330,656
Finance and insurance	52	1,512,647	1,379,095	133,552	1,512,360	1,378,808	133,552
Real estate and rental and leasing	53	66,237	54,643	11,594	65,475	53,880	11,594
Lessors of nonfinancial intangible assets (except copyrighted works)	533	1,128	1,116	12	992	980	12
Other real estate and rental and leasing	other 53	65,109	53,527	11,582	64,483	52,901	11,582
Professional, scientific, and technical services	54	812,702	618,821	193,880	811,139	617,955	193,183
Architectural, engineering, and related services	5413	106,032	87,308	18,724	105,255	86,976	18,279
Computer systems design and related services	5415	322,529	215,986	106,543	322,296	215,792	106,503
Scientific research and development services	5417	193,912	159,051	34,861	193,494	158,844	34,649
Research and development in nanotechnology	541713	2,251	2,097	154	2,251	2,097	154

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Research and development in biotechnology (except nanobiotechnology)	541714	30,524	24,061	6,463	30,524	24,061	6,463
Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	159,513	131,268	28,245	159,095	131,062	28,033
Research and development in the social sciences and humanities	541720	1,624	1,624	*	1,624	1,624	*
Other professional, scientific, and technical services	other 54	190,229	156,477	33,752	190,094	156,342	33,752
Health care services	621-23	163,067	159,837	3,231	159,720	156,489	3,231
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	841,150	D	D	838,060	D
All companies (number of domestic employees)	-	18,569,231	14,019,323	4,549,908	18,441,749	13,897,383	4,544,366
Small companies							
10-19 <sup>c</sup>	-	27,152	26,625	528	26,500	26,185	314
20-49	-	105,325	94,672	10,653	99,546	89,353	10,192
Medium companies							
50-99	-	142,628	133,719	8,910	129,394	120,791	8,602
100-249	-	352,907	331,414	21,493	346,215	324,819	21,396
Large companies							
250-499	-	439,071	391,094	47,977	425,209	378,066	47,144
500-999	-	592,209	512,770	79,439	579,331	500,600	78,731
1,000-4,999	-	2,468,699	1,901,031	567,668	2,450,204	1,885,459	564,745
5,000-9,999	-	2,176,272	1,667,332	508,939	2,136,565	1,627,626	508,939
10,000-24,999	-	4,076,093	2,796,484	1,279,609	4,059,912	2,780,303	1,279,609
25,000 or more	-	8,188,874	6,164,182	2,024,693	8,188,874	6,164,182	2,024,693

\* = 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; r = relative standard error is more than 50%.

NAICS = 2017 North American Industry Classification System.

<sup>a</sup> Statistics are representative of companies located in the United States that performed or funded R&D.

<sup>b</sup> Statistics are representative of companies located in the United States that performed domestic R&D.

<sup>c</sup> 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.

**Source(s):**

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2023.