

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: 2022**

(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	18,865,332	14,184,308	4,681,024	18,740,400	14,073,306	4,667,094
Manufacturing industries	31–33	10,483,814	7,322,263	3,161,550	10,441,004	7,291,169	3,149,835
Food	311	1,328,082	965,560	362,522	D	961,540	D
Beverage and tobacco products	312	222,516	133,830	88,686	222,199	133,513	88,686
Textile, apparel, and leather products	313–16	96,905	71,745	25,160	96,905	71,745	25,160
Wood products	321	63,162	61,018	2,145	62,972	60,828	2,145
Paper	322	121,409	98,823	22,585	121,409	98,823	22,585
Printing and related support activities	323	33,661	29,296	4,366	33,630	29,265	4,366
Petroleum and coal products	324	725,574	399,161	326,413	725,574	399,161	326,413
Chemicals	325	2,073,781	1,493,442	580,339	2,065,785	1,487,865	577,920
Basic chemicals	3251	507,554	413,607	93,947	507,554	413,607	93,947
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	148,327	91,925	56,402	148,327	91,925	56,402
Pesticide, fertilizer, and other agricultural chemicals	3253	111,016	103,364	7,652	109,827	102,213	7,613
Pharmaceuticals and medicines	3254	965,978	685,744	280,234	961,728	681,493	280,234
Soap, cleaning compound, and toilet preparations	3256	228,765	131,795	96,970	228,765	131,795	96,970
Paint, coating, adhesive, and other chemicals	3255, 3259	112,141	67,008	45,133	109,585	66,832	42,752
Plastics and rubber products	326	316,751	253,088	63,662	314,991	251,372	63,619
Nonmetallic mineral products	327	87,137	66,532	20,606	72,185	55,456	16,729
Primary metals	331	187,842	160,761	27,081	186,668	159,588	27,080
Fabricated metal products	332	223,165	188,388	34,777	222,798	188,021	34,777
Machinery	333	810,458	520,724	289,734	809,236	519,502	289,734
Agricultural implement	33311	139,933	103,071	36,862	139,933	103,071	36,862
Semiconductor machinery	333242	78,349	32,885	45,464	78,349	32,885	45,464
Engine, turbine, and power transmission equipment	3336	139,276	71,407	67,870	139,276	71,407	67,870
Other machinery	other 333	452,899	313,360	139,539	451,678	312,139	139,539
Computer and electronic products	334	1,414,098	734,451	679,647	1,413,517	734,040	679,477
Communications equipment	3342	137,293	94,162	43,131	137,293	94,162	43,131
Semiconductor and other electronic components	3344	438,645	209,620	229,024	438,319	209,459	228,861
Navigational, measuring, electromedical, and control instruments	3345	171,254	121,464	49,790	171,080	121,296	49,784
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	41,740	34,617	7,123	41,740	34,617	7,123
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	28,709	25,280	3,429	28,659	25,230	3,429
Other measuring and controlling devices	other 3345	100,805	61,566	39,239	100,681	61,449	39,232
Other computer and electronic products	other 334	666,906	309,204	357,702	666,825	309,123	357,702
Electrical equipment, appliances, and components	335	246,813	190,989	55,824	246,492	190,668	55,824

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		Worldwide	Domestic	Foreign	Worldwide	Domestic	Foreign
Transportation equipment	336	1,754,108	1,377,381	376,727	1,751,188	1,376,763	374,425
Motor vehicles, bodies, trailers, and parts	3361-63	1,219,631	934,230	285,401	1,216,710	933,611	283,098
Aerospace products and parts	3364	428,659	356,684	71,975	428,659	356,684	71,975
Aircraft, aircraft engine, and aircraft parts	336411-13	293,542	254,318	39,223	293,542	254,318	39,223
Guided missile, space vehicle, and related parts	336414-15, 336419	135,117	102,365	32,752	135,117	102,365	32,752
Military armored vehicle, tank, and tank components	336992	1,288	1,288	0	1,288	1,288	0
Other transportation	other 336	104,531	85,180	19,351	104,531	85,180	19,351
Furniture and related products	337	42,898	38,358	4,540	D	34,816	D
Miscellaneous	339	735,454	538,717	196,737	734,940	538,203	196,737
Medical equipment and supplies	3391	579,196	439,882	139,315	579,082	439,767	139,315
Other miscellaneous manufacturing	3399	156,257	98,835	57,422	155,858	98,436	57,422
Nonmanufacturing industries	21-23, 42-81	8,381,519	6,862,045	1,519,474	8,299,397	6,782,138	1,517,259
Mining, quarrying, oil and gas extraction, and support activities	21	596,556	365,103	231,453	596,015	364,561	231,453
Utilities	22	401,755	397,079	4,675	342,727	338,051	4,675
Wholesale trade	42	719,002	664,357	54,645	710,893	656,327	54,566
Electronic shopping and electronic auctions	454111-12	D	462,290	D	D	459,379	D
Transportation and warehousing	48-49	394,854	299,607	95,248	394,687	299,439	95,248
Information	51	2,468,595	1,852,965	615,631	2,467,819	1,852,263	615,556
Publishing	511	587,242	370,798	216,443	D	D	D
Newspaper, periodical, book, and directory publishers	5111	2,900	2,829	71	D	D	D
Software publishers	5112	584,342	367,970	216,372	584,251	367,879	216,372
Telecommunications	517	476,722	468,426	8,296	476,722	468,426	8,296
Data processing, hosting, and related services	518	755,298	638,156	117,141	755,179	638,061	117,118
Other information	other 51	649,333	375,583	273,750	D	D	D
Finance and insurance	52	1,364,217	1,250,350	113,867	1,362,573	1,248,706	113,867
Real estate and rental and leasing	53	83,523	74,026	9,497	83,523	74,026	9,497
Lessors of nonfinancial intangible assets (except copyrighted works)	533	475	464	11	475	464	11
Other real estate and rental and leasing	other 53	83,049	73,562	9,486	83,049	73,562	9,486
Professional, scientific, and technical services	54	741,152	561,046	180,106	733,192	555,043	178,148
Architectural, engineering, and related services	5413	126,022	105,800	20,222	124,247	104,714	19,533
Computer systems design and related services	5415	290,033	186,067	103,966	284,644	181,866	102,777
Scientific research and development services	5417	169,943	136,566	33,377	169,342	136,024	33,318
Research and development in nanotechnology	541713	968	933	34	762	760	2
Research and development in biotechnology (except nanobiotechnology)	541714	33,306	27,575	5,731	33,211	27,481	5,731

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Research and development in the physical, engineering, and life sciences (except nanotechnology and biotechnology)	541715	134,109	106,503	27,606	133,943	106,364	27,579
Research and development in the social sciences and humanities	541720	1,560	1,554	6	1,426	1,420	6
Other professional, scientific, and technical services	other 54	155,154	132,613	22,540	154,959	132,438	22,520
Health care services	621-23	97,889	96,411	1,478	97,687	96,210	1,478
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	838,811	D	D	838,132	D
All companies (number of domestic employees)	-	18,865,332	14,184,308	4,681,024	18,740,400	14,073,306	4,667,094
Small companies							
10-19 <sup>c</sup>	-	42,142	41,616	525	39,870	39,546	323
20-49	-	122,687	113,186	9,501	120,852	111,483	9,369
Medium companies							
50-99	-	187,536	179,757	7,779	181,831	174,164	7,668
100-249	-	413,628	384,889	28,738	396,402	370,129	26,274
Large companies							
250-499	-	471,496	366,007	105,489	460,171	358,556	101,615
500-999	-	666,613	573,879	92,733	660,689	568,206	92,483
1,000-4,999	-	2,668,856	2,052,262	616,595	2,652,727	2,040,631	612,096
5,000-9,999	-	2,083,187	1,590,874	492,313	2,055,859	1,565,944	489,916
10,000-24,999	-	4,211,285	2,883,419	1,327,866	4,174,096	2,846,230	1,327,866
25,000 or more	-	7,997,902	5,998,417	1,999,485	7,997,902	5,998,417	1,999,485

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.

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 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&amp;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&amp;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.