

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: 2016

(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	12,285,760	9,191,871	3,093,889	11,881,988	8,874,793	3,007,195
Manufacturing industries	31-33	7,483,867	5,396,816	2,087,051	7,376,945	5,325,493	2,051,452
Food	311	747,939	550,691	197,247	747,939	550,691	197,247
Beverages and tobacco products	312	230,927	146,434	84,493	200,618	146,434	54,183
Textiles, apparel, and leather products	313-16	116,524	96,812	19,712	116,524	96,812	19,712
Wood products	321	41,246	35,726	5,520	41,246	35,726	5,520
Paper	322	91,616	67,653	23,962	91,616	67,653	23,962
Printing and related support activities	323	28,619	25,059	3,560	28,619	25,059	3,560
Petroleum and coal products	324	198,336	163,381	34,955	198,336	163,381	34,955
Chemicals	325	1,446,440	1,039,760	406,681	1,443,961	1,037,281	406,681
Basic chemicals	3251	261,101	206,642	54,459	D	D	54,459
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	65,745	45,081	20,665	65,745	45,081	20,665
Pesticides, fertilizers, and other agricultural chemicals	3253	59,143	47,548	11,595	59,143	47,548	11,595
Pharmaceuticals and medicines	3254	767,140	579,390	187,750	D	D	187,750
Soaps, cleaning compounds, and toilet preparations	3256	190,498	94,911	95,587	190,498	94,911	95,587
Paints, coatings, adhesives, and other chemicals	3255, 3259	102,813	66,187	36,625	102,813	66,187	36,625
Plastics and rubber products	326	259,510	184,430	75,080	258,903	183,929	74,974
Nonmetallic mineral products	327	78,265	56,327	21,938	68,871	50,609	18,262
Primary metals	331	126,285	106,529	19,756	122,860	104,558	18,302
Fabricated metal products	332	137,763	113,185	24,579	137,566	113,038	24,528
Machinery	333	448,990	296,633	152,357	448,977	296,622	152,355
Agricultural implements	33311	65,132	40,657	24,475	65,132	40,657	24,475
Semiconductor machinery	333242	31,546	16,933	14,613	31,546	16,933	14,613
Engines, turbines, and power transmission equipment	3336	51,785	31,558	20,227	51,785	31,558	20,227
Other machinery	other 333	300,527	207,485	93,043	300,514	207,474	93,040
Computer and electronic products	334	1,267,382	786,351	481,031	1,267,382	786,351	481,031
Communications equipment	3342	145,430	104,330	41,099	145,430	104,330	41,099
Semiconductors and other electronic components	3344	410,372	273,929	136,444	410,372	273,929	136,444
Navigational, measuring, electromedical, and control instruments	3345	260,219	172,153	88,066	260,219	172,153	88,066
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	38,374	22,308	16,066	38,374	22,308	16,066
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	103,352	73,423	29,929	103,352	73,423	29,929
Other measuring and controlling devices	other 3345	118,493	76,421	42,072	118,493	76,421	42,072
Other computer and electronic products	other 334	451,362	235,940	215,422	451,362	235,940	215,422
Electrical equipment, appliances, and components	335	227,674	148,671	79,004	227,518	148,514	79,004
Transportation equipment	336	1,631,162	1,289,540	341,622	1,571,189	1,229,567	341,622

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		R&D performers or funders ^a			Domestic R&D performers ^b		
		Worldwide	Domestic	Foreign	Worldwide	Domestic	Foreign
Automobiles, bodies, trailers, and parts	3361-63	1,134,364	886,881	247,483	1,074,391	826,908	247,483
Aerospace products and parts	3364	416,414	336,565	79,848	416,414	336,565	79,848
Aircraft, aircraft engines, and aircraft parts	336411-13	394,437	319,476	74,961	394,437	319,476	74,961
Guided missiles, space vehicles, and related parts	336414-15, 336419	21,976	17,089	4,887	21,976	17,089	4,887
Military armored vehicles, tanks, and tank components	336992	245	245	0	245	245	0
Other transportation	other 336	80,139	65,849	14,290	80,139	65,849	14,290
Furniture and related products	337	41,066	35,370	5,697	41,066	35,370	5,697
Miscellaneous manufacturing	339	364,122	254,265	109,857	363,755	253,899	109,857
Medical equipment and supplies	3391	254,570	178,892	75,678	254,570	178,892	75,678
Other miscellaneous manufacturing	3399	109,552	75,374	34,179	109,185	75,007	34,179
Nonmanufacturing industries	21-23, 42-81	4,801,893	3,795,055	1,006,838	4,505,042	3,549,300	955,743
Mining, extraction, and support activities	21	487,062	209,694	277,368	475,103	199,424	275,678
Utilities	22	317,418	313,058	4,361	216,109	211,748	4,361
Wholesale trade	42	177,270	161,921	15,348	175,609	161,190	14,419
Electronic shopping and electronic auctions	454111-12	D	109,664	D	D	109,619	D
Transportation and warehousing	48-49	243,502	199,681	43,821	243,502	199,681	43,821
Information	51	1,328,727	1,064,822	263,905	1,314,079	1,054,030	260,048
Publishing	511	549,084	399,746	149,339	548,783	399,678	149,104
Newspaper, periodical, book, and directory publishers	5111	3,954	3,637	317	3,954	3,637	317
Software publishers	5112	545,130	396,108	149,022	544,829	396,041	148,787
Telecommunications	517	468,117	455,430	12,687	468,091	455,414	12,677
Data processing, hosting, and related services	518	133,836	104,974	28,862	133,700	104,838	28,862
Other information	other 51	177,690	104,672	73,018	163,505	94,100	69,406
Finance and insurance	52	797,888	713,192	84,697	797,184	712,487	84,697
Real estate and rental and leasing	53	5,435	5,298	137	5,435	5,298	137
Lessors of nonfinancial intangible assets (except copyrighted works)	533	D	694	D	D	694	D
Other real estate and rental and leasing	other 53	D	4,604	D	D	4,604	D
Professional, scientific, and technical services	54	562,101	421,882	140,220	561,457	421,387	140,070
Architectural, engineering, and related services	5413	133,738	100,649	33,089	133,738	100,649	33,089
Computer systems design and related services	5415	263,361	175,787	87,574	262,859	175,434	87,425
Scientific research and development services	5417	78,259	66,620	11,639	78,117	66,478	11,639
Biotechnology research and development	541711	30,318	27,339	2,979	30,305	27,326	2,979
Physical, engineering, and life sciences (except biotechnology) research and development	541712	D	36,705	D	D	36,576	D
Social sciences and humanities research and development	541720	D	2,576	D	D	2,576	D

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Other professional, scientific, and technical services	other 54	86,744	78,826	7,918	86,744	78,826	7,918
Health care services	621-23	80,599	79,471	1,128	79,346	78,218	1,128
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	516,373	D	D	396,216	D
All companies (number of domestic employees)	-	12,285,760	9,191,871	3,093,889	11,881,988	8,874,793	3,007,195
Micro companies ^c							
5 - 9	-	7,819	6,778	1,041	7,539	6,746	793
Small companies							
10 - 19	-	26,525	25,795	730	26,396	25,756	641
20 - 49	-	103,214	100,067	3,147	102,395	99,325	3,071
Medium companies							
50 - 99	-	119,232	113,696	5,536	118,447	113,199	5,249
100 - 249	-	323,326	271,388	51,938	292,833	271,205	21,628
Large companies							
250 - 499	-	316,526	276,513	40,014	315,031	275,766	39,265
500 - 999	-	397,279	326,260	71,019	386,701	315,732	70,968
1,000 - 4,999	-	1,662,808	1,238,059	424,749	1,635,116	1,215,008	420,108
5,000 - 9,999	-	1,336,675	994,329	342,346	1,312,926	970,580	342,346
10,000 - 24,999	-	2,329,719	1,677,581	652,138	2,267,216	1,618,690	648,526
25,000 or more	-	5,662,637	4,161,406	1,501,231	5,417,386	3,962,786	1,454,600

D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Statistics are representative of companies located in the United States that performed or funded R&D and are comparable to previously published sales statistics from the Business R&D and Innovation Survey.

^b Statistics are representative of companies located in the United States that performed R&D.

^c Business R&D and Innovation Survey does not include companies with fewer than five 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 R&D.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2016.