

APPENDIX TABLE 4-19 
R&D performed in the United States by U.S. multinational company parent companies, by NAICS industry: 2009–14

(Millions of current U.S. dollars)

Industry	NAICS code	2009	2010	2011	2012	2013	2014
All industries	-	207,297	205,674	220,279	232,955	242,327	268,787
Mining	21	560	556	712	620	781	832
Oil and gas extraction	211	s	s	s	16	15	s
Other mining	na	s	s	s	604	766	s
Manufacturing	31–33	157,731	152,855	159,646	164,489	167,765	183,435
Food	311	1,927	2,196	2,565	2,623	2,546	2,527
Beverage and tobacco products	312	338	313	289	329	406	477
Textiles, apparel, and leather products	313–16	182	216	203	203	197	204
Wood products	321	80	87	47	s	34	44
Paper manufacturing	322	1,069	1,150	1,229	1,282	1,913	1,930
Printing and related support activities	323	133	74	79	77	74	67
Petroleum and coal products	324	2,924	3,249	2,967	2,988	3,113	2,866
Chemicals	325	47,244	49,878	52,480	55,088	54,374	61,542
Basic chemicals	3251	913	1,014	1,169	1,271	1,124	1,187
Resins and synthetic rubber, fiber, and filament	3252	2,721	3,233	3,428	3,780	3,849	3,744
Pharmaceuticals and medicines	3254	39,576	41,614	44,427	46,969	46,275	53,170
Soap, cleaning compound, and toilet preparation	3256	s	1,936	2,131	1,839	1,968	2,102
Other	na	s	2,081	1,325	1,229	1,159	1,338
Plastic and rubber products	326	1,109	1,249	1,154	1,255	1,018	1,372
Nonmetallic mineral products	327	388	383	429	450	446	446
Primary and fabricated metals	na	1,217	1,224	1,260	1,341	1,164	1,271
Primary metals	331	453	482	520	512	508	627
Fabricated metal products	332	764	743	740	830	656	644
Machinery	333	6,743	7,771	8,344	9,039	9,406	7,857



Industry	NAICS code	2009	2010	2011	2012	2013	2014
Agriculture, construction, and mining machinery	3331	2,330	2,912	3,531	3,722	3,808	3,954
Industrial machinery	3332	1,690	1,996	1,899	2,124	2,264	2,055
Other machinery	na	2,724	2,863	2,914	3,193	3,335	1,848
Computer and electronic products	334	35,823	34,535	42,305	44,029	44,772	51,312
Computer and peripheral equipment	3341	6,717	4,918	6,472	8,105	8,707	10,968
Communication equipment	3342	7,991	8,059	9,524	7,440	7,500	7,030
Audio and video equipment	3343	s	682	723	684	675	s
Semiconductor and other electronic components	3344	12,893	13,648	15,716	17,367	17,135	19,111
Navigational, measuring, and other instruments	3345	7,557	7,228	9,870	10,433	10,756	13,270
Magnetic and optical media	3346	s	0	0	0	0	s
Electrical equipment, appliances, and components	335	3,040	3,059	3,623	4,215	4,067	4,145
Transportation equipment	336	48,960	40,224	35,307	33,863	36,250	38,077
Motor vehicles, bodies and trailers, and parts	3361, 3362, 3363	10,316	12,387	12,433	12,705	15,124	14,794
Other	na	38,643	27,837	22,874	21,158	21,127	23,282
Furniture and related products	337	237	216	243	235	237	681
Miscellaneous manufacturing	339	6,317	7,030	7,123	s	7,749	8,618
Wholesale trade	42	6,440	6,299	6,921	8,056	8,482	9,684
Professional and commercial equipment and supplies	4234	1,173	1,638	1,915	1,936	2,086	1,913
Petroleum and petroleum products	4247	s	s	s	s	s	s
Drugs and druggists' sundries	4242	1,322	1,363	1,453	1,522	1,597	2,293
Other	na	s	s	s	s	s	s
Retail trade	44-45	s	s	s	s	s	s
General merchandise stores	452	0	0	0	0	0	0
Clothing and clothing accessories stores	448	8	s	8	s	s	25.0
Other	na	s	s	s	s	s	s
Information	51	21,035	22,577	24,996	29,013	31,593	38,655
Publishing	511	14,456	14,713	15,188	16,261	17,000	19,008



Industry	NAICS code	2009	2010	2011	2012	2013	2014
Motion picture and sound recording industries	512	s	s	s	s	s	0
Broadcasting (except Internet) and telecommunications	na	1,128	1,157	1,443	1,570	1,796	2,689
Broadcasting (except Internet)	515	s	s	70	71	96	35
Telecommunications	517	s	s	1,374	1,499	1,699	2,653
Data processing, hosting, and related services	518	750	805	930	991	1,165	1,600
Other	na	s	s	s	s	s	15,358
Finance and insurance	52	186	384	469	522	596	460
Depository credit intermediation (banking)	5221	0	s	s	s	s	s
Finance (except depository institutions)	na	s	s	s	179	203	135
Insurance carriers and related activities	524	s	71	112	s	s	s
Professional, scientific, and technical services	54	15,931	18,056	21,614	22,466	24,065	24,667
Architectural, engineering, and related services	5413	42	118	s	s	s	s
Computer systems design and related services	5415	10,134	11,135	12,737	13,358	13,650	13,152
Management, scientific, and technical consulting	5416	71	s	s	s	s	s
Advertising and related services	5418	1	s	s	s	s	s
Other	na	5,683	6,715	7,419	7,551	s	s
Other industries	na	s	s	s	s	s	s
Agriculture, forestry, fishing, and hunting	11	s	s	s	s	s	s
Construction	23	4	s	s	112	104	159
Utilities	22	6	12	15	16	29	s
Transportation and warehousing	48-49	68	55	36	72	77	55
Real estate, rental, and leasing	53	s	s	s	s	s	s
Management of nonbank companies and enterprises	55	0	*	*	0	0	0
Administration, support, and waste management	56	s	988	s	s	s	695
Health care and social assistance	62	s	s	s	s	s	s
Accommodation and food services	72	37	51	51	49	35	53
Miscellaneous services	na	344	338	372	202	213	655



* = < \$500,000. na = not applicable; data source did not provide a classification. s = suppressed for reasons of reliability and/or confidentiality.

NAICS = North American Industry Classification System.

Note(s)

Data are for all parent companies (bank and nonbank) of U.S. multinational companies (MNCs). (Before 2009, data were for nonbank U.S. MNC parent companies.) A U.S. MNC parent company is defined as a company that resides in the United States and owns or controls at least 10% of voting securities or the equivalent of foreign business enterprise. Industries are classified by the U.S. Bureau of Economic Analysis using the international surveys industry classification system based on the NAICS. Data are for R&D performed regardless of funding source, whether for the performer itself or others, including R&D performed for the federal government; data exclude R&D conducted by others under contract. For data before 2009, see Appendix Table 4-29 in *Science and Engineering Indicators 2014*, <https://www.nsf.gov/statistics/seind14/index.cfm/appendix/tables.htm>.

Source(s)

U.S. Bureau of Economic Analysis, Direct Investment and Multinational Enterprises (annual series), https://www.bea.gov/iTable/index_MNC.cfm, accessed 27 January 2017.

Science and Engineering Indicators 2018