

APPENDIX TABLE 4-18 
**R&D performed abroad by majority-owned foreign affiliates of U.S. parent companies, by selected NAICS industry of affiliate: 2009-14**

(Millions of current U.S. dollars)

Industry	NAICS code	2009	2010	2011	2012	2013	2014
All industries	na	39,205	39,887	44,684	44,983	49,221	52,174
Mining	21	119	42	119	304	378	219
Oil and gas extraction	211	s	14	23	98	100	31
Other	na	s	27	97	206	278	188
Manufacturing	31-33	27,141	27,481	30,332	30,497	31,625	32,128
Food	311	514	534	617	520	488	575
Beverage and tobacco products	312	71	86	91	90	63	85
Textile, apparel, and leather products	313-16	68	70	75	69	70	90
Wood products	321	2	2	7	8	9	46
Paper manufacturing	322	66	68	184	89	85	117
Printing and related support activities	323	9	23	14	8	11	32
Petroleum and coal products	324	s	s	s	s	s	s
Chemicals	325	8,757	8,348	9,287	9,153	9,467	8,511
Basic chemicals	3251	174	201	299	297	300	220
Resin, synthetic rubber, fiber, and filament	3252	295	290	277	369	336	376
Pharmaceuticals and medicines	3254	7,436	7,115	7,703	7,165	7,155	6,127
Soap, cleaning compound, and toilet preparation	3256	222	208	303	598	666	728
Other	na	630	534	705	724	1,010	1,059
Plastic and rubber products	326	329	386	552	530	550	542
Nonmetallic mineral products	327	93	109	121	103	62	94
Primary and fabricated metals	na	245	279	352	283	352	356
Primary metals	331	61	108	139	110	144	127
Fabricated metal products	332	184	171	214	172	208	229
Machinery	333	1,361	1,451	2,210	2,214	2,409	2,852



Industry	NAICS code	2009	2010	2011	2012	2013	2014
Agriculture, construction, and mining machinery	3331	421	477	682	709	856	866
Industrial machinery	3332	280	294	655	671	640	823
Other	na	661	681	874	835	913	1,164
Computer and electronic products	334	6,108	5,922	5,476	7,074	7,452	8,376
Computer and peripheral equipment	3341	963	827	882	850	1,068	1,320
Communication equipment	3342	s	s	968	891	s	1,339
Audio and video equipment	3343	s	s	292	314	s	324
Semiconductor and other electronic components	3344	2,590	2,797	2,478	4,033	3,977	4,158
Navigational, measuring, and other instruments	3345	870	858	856	986	1018	1,234
Magnetic and optical media	3346	*	*	*	*	1.0	*
Electrical equipment, appliances, and components	335	532	700	709	681	569	527
Transportation equipment	336	7,837	7,796	8,400	7,700	7,770	7,723
Motor vehicles, bodies and trailers, and parts	3361, 3362, 3363	7,276	7,249	7,707	7,048	6,993	6,886
Other	na	561	547	694	652	776	836
Furniture and related products	337	7	29	18	27	28	17
Miscellaneous manufacturing	339	s	s	s	s	s	s
Wholesale trade	42	2,074	1,928	2,580	2,510	4,727	4,976
Professional and commercial equipment and supplies	4234	1,165	1,247	1,322	1,254	1,745	1,524
Petroleum and petroleum products	4247	2	2	2	1	s	s
Drugs and druggists' sundries	4242	514	s	800	715	2,320	2,778
Other	na	393	s	456	539	s	s
Retail trade	44-45	s	26	33	29	30	31
General merchandise stores	452	s	1	1	1	1	0
Clothing and clothing accessories stores	448	0	0	1	2	2	*
Other	na	s	25	31	26	27	31
Information	51	1,698	2,618	3,024	3,214	3,401	3,952
Publishing	511	1,407	s	s	s	s	s



Industry	NAICS code	2009	2010	2011	2012	2013	2014
Motion picture and sound recording industries	512	0	0	0	0	1	0
Broadcasting (except Internet) and telecommunications	na	s	5	12	31	39	24
Broadcasting (except Internet)	515	*	1	1	0	0	1
Telecommunications	517	s	4	11	31	39	23
Data processing, hosting, and related services	518	s	14	27	29	34	36
Other information services	519	252	s	s	s	s	s
Finance and insurance	52	1	6	s	s	s	242
Depository credit intermediation (banking)	5221, 551111	0	*	s	s	s	s
Finance (except depository institutions)	other 522, 523, 525	1	6	6	10	17	s
Insurance carriers and related activities	524	0	0	0	0	0	0
Professional, scientific, and technical services	54	8,080	7,683	8,241	8,065	8,571	10,338
Architectural, engineering, and related services	5413	107	101	s	86	115	493
Computer systems design and related services	5415	2,270	2,049	1,937	2,122	2,365	2,555
Management, scientific, and technical consulting	5416	418	324	412	410	438	641
Advertising and related services	5418	3	1	1	1	1	1
Other	na	5,284	5,208	s	5,447	5,652	6,647
Other industries	na	s	102	s	s	s	287
Agriculture, forestry, fishing, and hunting	11	4	s	s	s	s	s
Construction	23	1	2	3	1	3	3
Utilities	22	1	5	2	12	11	25
Transportation and warehousing	48-49	3	3	2	2	2	4
Real estate, rental, and leasing	53	1	1	2	3	3	2
Management of nonbank companies and enterprises	55 (except 551111)	4	5	4	4	6	35
Administration, support, and waste management	56	23	27	30	48	68	53
Health care and social assistance	62	0	0	*	2	1	4
Accommodation and food services	72	4	s	s	s	s	7
Miscellaneous services	na	s	10	10	11	12	s



\* = amount  $\leq$  \$500,000; na = not applicable; s = suppressed for reasons of reliability and/or confidentiality.

NAICS = North American Industry Classification System.

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**Note(s)**

Data are for majority-owned (> 50%) foreign affiliates (bank and nonbank) of U.S. parent companies. Data include R&D expenditures performed by affiliates, whether for themselves or for others under contract. Data exclude R&D expenditures by others for affiliates under contract. Industries are classified by the U.S. Bureau of Economic Analysis using the international surveys industry classification system based on the NAICS. For data before 2009, see Appendix Table 4-27 in *Science and Engineering Indicators 2014*, <https://www.nsf.gov/statistics/seind14/index.cfm/appendix/tables.htm>.

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**Source(s)**

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

*Science and Engineering Indicators 2018*