

APPENDIX TABLE 4-16 
R&D performed by majority-owned affiliates of foreign companies in the United States, by NAICS industry of affiliate: 2007–14

(Millions of current U.S. dollars)

Industry	NAICS code	2007	2008	2009	2010	2011	2012	2013	2014
All industries	-	40,967	40,727	40,425	42,360	45,177	50,259	54,070	56,904
Manufacturing	31–33	30,615	28,617	28,501	30,858	31,290	35,617	39,161	41,124
Food	311	s	538	518	486	472	555	679	714
Beverage and tobacco products	312	54	47	29	27	24	44	34	44
Paper manufacturing	322	52	43	42	63	55	47	51	52
Petroleum and coal products	324	s	s	s	s	s	s	s	s
Chemicals	325	15,908	14,271	16,075	16,815	16,837	19,587	21,237	22,407
Basic chemicals	3251	603	705	626	597	686	788	728	739
Pharmaceuticals and medicines	3254	14,331	12,650	14,545	15,388	15,338	17,970	19,625	20,750
Other	-	974	916	904	830	813	828	884	917
Plastic and rubber products	326	421	417	385	395	476	501	536	470
Nonmetallic mineral products	327	277	244	223	238	255	317	313	292
Primary and fabricated metals	-	292	372	369	347	340	375	483	572
Primary metals	331	67	114	84	97	106	129	158	174
Fabricated metal products	332	225	259	284	250	234	246	325	397
Machinery	333	1,939	2,568	2,376	2,539	2,541	2,632	2,704	2,835
Computer and electronic products	334	3,838	4,240	4,353	5,210	4,275	4,383	4,862	5,000
Semiconductor and other electronic components	3344	683	802	1,134	1,583	1,188	1,256	1,845	1,791
Navigational, measuring, and other instruments	3345	351	410	1,034	1,168	1,211	1,265	1,330	1,562
Other	-	2,804	3,028	2,185	2,459	1,876	1,862	1,687	1,647
Electrical equipment, appliances, and components	335	446	487	570	627	656	772	926	1070
Transportation equipment	336	5,778	4,109	2,313	2,571	3,963	4,950	5,990	6,295



Industry	NAICS code	2007	2008	2009	2010	2011	2012	2013	2014
Motor vehicles, bodies and trailers, and parts	3361, 3362, 3363	2,441	1,509	1,596	1,519	3,032	3,983	4,891	5,127
Other	-	3,336	2,600	717	1,052	931	967	1,098	1,168
Other	-	651	s	s	s	s	s	s	s
Wholesale trade	42	6,635	7,165	6,642	6,084	7,235	7,982	8,109	8,407
Motor vehicles and motor vehicle parts and supplies	4231	464	359	363	284	362	500	506	535
Electrical goods	4236	2,146	2,293	1,593	1,336	2,226	2,517	2,329	2,513
Petroleum and petroleum products	4247	s	124	s	s	s	s	134	s
Other	-	s	4,388	s	s	s	s	5,139	s
Retail trade	44-45	s	8	11	s	9	9	9	9
Food and beverage stores	445	0	0	0	0	0	0	*	*
Other	-	s	8	11	s	9	9	9	9
Information	51	1,252	1,586	1,681	1,309	1,483	1,364	1,072	1,235
Publishing	511	907	1,332	1,475	1,007	1,080	980	713	693
Telecommunications	517	s	38	s	139	s	s	s	230
Other	-	s	216	s	162	s	s	s	312
Finance and insurance	52	10	7	28	s	67	s	72	77
Depository credit intermediation (banking)	5221	0	*	*	s	1	s	1	1
Finance (except depository institutions)	-	10	6	s	s	s	s	69	75
Insurance carriers and related activities	524	*	1	s	s	s	s	2	1
Real estate, rental, and leasing	53	s	44	s	s	s	158	152	150
Real estate	531	1	s	*	*	*	s	2	2
Rental and leasing (except real estate)	532	s	s	s	s	s	s	150	148
Professional, scientific, and technical services	54	2,021	2,872	3,051	3,486	4,112	4,135	4,508	4,905
Architectural, engineering, and related services	5413	322	261	92	86	108	141	164	109
Computer system design and related services	5415	390	346	583	989	922	1,102	1,098	1,126



Industry	NAICS code	2007	2008	2009	2010	2011	2012	2013	2014
Management, scientific, and technical consulting	5416	5	34	44	37	s	s	s	s
Other	-	1,305	2,231	2,332	2,374	s	s	s	s
Other industries	-	387	427	s	461	s	s	988	997
Mining	21	132	174	161	169	492	529	539	559
Utilities	22	1	8	14	8	18	18	19	17
Construction	23	s	18	13	15	32	35	s	s
Transportation and warehousing	48-49	s	s	s	s	s	s	30	30
Administration, support, and waste management	56	s	s	s	s	s	s	s	s
Health care and social assistance	62	s	s	s	s	s	s	s	s
Accommodation and food services	72	*	*	*	*	*	*	*	*
Miscellaneous services	-	89	90	89	108	139	51	62	62

* = amount ≤ \$500,000; s = suppressed for reasons of reliability and/or confidentiality.

NAICS = North American Industry Classification System.

Note(s)

Data are for R&D performance of majority-owned (> 50%) bank and nonbank U.S. affiliates of foreign parent companies. Total R&D performed refers to R&D expenditures according to who conducts R&D activity, whether for themselves or for others under contract, and excludes R&D expenditures conducted by others under contract. Industry data are classified by the U.S. Bureau of Economic Analysis using the international surveys industry classification system based on the NAICS. Data for 2007-08 are based on the 2002 NAICS. The ultimate beneficial owner is the person proceeding up the U.S. affiliate's ownership chain beginning with and including a foreign parent company not owned > 50% by another person. Detail may not add to total because of rounding. For data before 2007, see Appendix Table 4-24 in *Science and Engineering Indicators 2014*, <https://www.nsf.gov/statistics/seind14/index.cfm/appendix/tables.htm>.

Source(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