



## APPENDIX TABLE 4-15

## R&amp;D performed by majority-owned affiliates of foreign companies in the United States, by region, country, or economy of ultimate beneficial owner: 1997-2014

(Millions of current U.S. dollars)

Region, country, or economy	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	17,216	22,375	24,027	26,180	26,463	27,507	29,803	30,083	31,099	34,625	40,967	40,727	40,425	42,360	45,177	50,259	54,070	56,904
Canada	1,668	2,352	2,385	3,693	2,136	1,599	1,380	1,459	1,553	1,581	1,574	1,294	1,120	535	590	611	535	509
Europe	12,327	16,425	18,055	18,634	19,973	20,532	22,518	22,825	23,389	26,100	31,330	30,273	29,947	31,443	33,630	37,552	39,992	42,068
Belgium	s	s	175	167	108	87	117	137	136	288	353	506	440	279	248	388	377	406
Denmark	97	127	s	s	s	114	100	160	319	371	368	377	363	412	379	341	376	418
Finland	s	s	166	157	601	544	s	s	s	s	371	588	514	602	618	605	500	317
France	1,783	1,881	2,434	2,596	2,662	2,860	3,777	3,800	3,099	3,289	5,589	5,802	5,020	4,954	4,743	6,508	6,463	6,749
Germany	2,923	5,381	6,135	5,603	5,686	5,863	5,976	5,916	6,519	6,857	5,893	5,696	5,529	5,300	5,640	5,895	6,577	7,080
Ireland	s	56	s	s	s	369	s	266	247	207	257	324	899	1,184	2,028	2,353	2,978	3,426
Italy	s	s	294	s	s	261	225	230	262	344	358	370	386	426	1,675	2,249	s	s
Netherlands	990	964	1,296	1,421	1,660	1,696	1,612	1,319	1,470	1,678	1,729	1,821	1,774	1,892	1,854	2,016	2,385	2,362
Spain	s	s	s	s	26	s	44	s	s	s	40	67	108	112	127	s	113	125
Sweden	687	713	428	373	465	270	261	270	272	344	388	345	504	437	438	516	603	624
Switzerland	2,369	3,076	3,008	2,922	3,107	2,920	3,791	4,185	4,289	5,014	6,395	6,940	8,889	9,299	9,144	9,625	9,781	10,551
United Kingdom	2,984	3,720	3,678	4,632	4,819	5,427	5,723	5,807	5,994	6,924	9,470	7,247	5,304	6,314	6,484	6,823	7,210	7,269
Other	*	1	1	3	3	5	6	6	s	32	119	191	218	232	252	s	s	s



Region, country, or economy	1997	1998	1999	2000	2001	2002	2003		2004		2005		2006		2007	2008	2009	2010	2011	2012	2013	2014
Latin America and OWH	373	396	564	735	1,126	1,066	s		s		s		s		1,666	1,773	1,656	1,594	1,015	1,046	1,640	1,695
South and Central America	s	s	92	s	112	s	s		s		s		s		s	23	119	69	40	59	68	70
Brazil	*	*	*	*	*	0	0		0		0		* e		*	*	*	s	6	22	25	28
Mexico	s	55	s	s	s	45	14	e	17	e	18	e	16	e	6	s	5	s	s	s	s	s
Venezuela	3	0	0	0	0	0	0		*		*		0		0	0	0	0	0	0	0	0
Other	*	*	*	*	*	2	*		3		3		3		s	s	113	s	s	s	s	s
OWH	s	s	472	s	1,014	s	1,180		1,069		1,121		1,249		s	1,750	1,537	1,525	975	987	1,571	1,626
Bermuda	s	s	s	s	s	s	853		873		909		950		s	1,224	s	61	81	s	s	s
United Kingdom Islands, Caribbean	1	1	1	s	s	s	s		s		s		s		s	s	s	s	s	s	703	733
Other	0	0	0	0	0	*	*	e	s		s		s		s	s	s	s	s	s	s	s
Africa	s	s	s	s	36	33	31		36		35		35		s	9	7	s	s	26	20	20
South Africa	s	s	s	s	36	33	31		36		35		35		s	9	7	s	s	26	20	20
Other	0	0	0	0	0	0	0		0		0		0		0	1	0	0	0	0	0	0
Middle East	103	132	s	s	177	175	s		s		s		s		306	358	465	537	1,005	1,467	1,590	1,676
Israel	95	117	s	102	99	89	106		123		135		147		149	204	306	s	539	s	927	981
Saudi Arabia	1	7	9	10	11	s	s		s		s		s		108	104	98	s	s	s	s	s
United Arab Emirates	*	0	0	0	0	0	0		0		0		0		0	0	9	s	s	s	s	s
Other	7	8	7	s	66	s	71	e	41		42		28		49	50	52	s	47	s	22	9.0
Asia and Pacific	2,642	2,961	2,820	2,864	2,946	3,413	3,763		3,763		4,067		4,698		5,069	5,689	6,047	7,054	8,429	9,143	9,865	10,539



Region, country, or economy	1997	1998	1999	2000	2001	2002	2003		2004		2005		2006		2007	2008	2009	2010	2011	2012	2013	2014
Australia	s	s	32	34	33	36	43	e	42		90		174		170	155	65	96	149	174	186	196
China	s	9	s	s	s	18	5		14		s		s		0	17	26	165	366	421	449	496
Hong Kong	4	1	1	*	s	s	s		s		62		75		s	147	121	65	83	s	43	68
India	NA	NA	NA	NA	NA	0	*	e	0		0		0		6	23	29	40	46	67	93	96
Japan	2,036	2,584	2,535	2,644	2,719	3,159	3,470		3,414		3,576		4,056		4,416	4,781	5,124	5,924	6,852	7,110	7,856	7,865
Singapore	s	16	13	9	1	s	18		20	e	25		42	e	69	139	253	246	280	294	382	387
South Korea	s	s	s	s	s	s	s		s		s		s		215	259	280	350	388	804	710	1,278
Taiwan	78	73	68	47	43	83	102	e	102	e	122		113	e	110	118	119	134	209	159	96	98
Other	*	*	0	0	0	0	1		1		*		s		s	50	29	35	56	s	52	57
United States	s	s	55	62	69	689	s		s		692		721	e	s	1,330	1,184	s	s	414	428	397
Addenda																						
European Union <sup>a</sup>	9,902	13,326	14,980	15,659	16,787	17,554	18,676		18,570		18,991		21,041		24,854	23,210	20,921	22,008	24,330	27,840	30,136	31,442
OPEC	10	16	19	17	18	18	s		s		s		s		108	105	107	108	s	s	641	685

\* = amount ≤ \$500,000; e = > 50% of value for data cell estimated to account for data not reported by respondents; NA = not available; s = suppressed for reasons of reliability and/or confidentiality.

OPEC = Organization of the Petroleum Exporting Countries; OWH = other Western Hemisphere.

<sup>a</sup> Reflects the country composition of the European Union for the given year.

**Note(s)**

Data are for R&D performance of majority-owned (> 50%) U.S. affiliates of foreign parent companies. Data are for nonbank U.S. affiliates for 1997–2006; data are for bank and nonbank U.S. affiliates for 2007 and forward. 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. The ultimate beneficial owner is the person proceeding up the U.S. affiliate's ownership chain beginning with and including a foreign parent not owned > 50% by another person. Detail may not add to total because of rounding.



**Source(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 26 January 2017.

*Science and Engineering Indicators 2018*