

TABLE 2. Worldwide, domestic, and foreign R&D paid for by the company and others and performed by the company, by industry and company size: 2014  
(Millions of U.S. dollars)

Industry and company size	NAICS code	Worldwide R&D performance			Domestic R&D performance			Foreign R&D performance		
		Total	Paid for by company	Paid for by others	Total	Paid for by company	Paid for by others	Total	Paid for by company	Paid for by others
All industries	21-23, 31-33, 42-81	416,038	351,926	64,113	340,728	282,570	58,158	75,310	69,356	5,955
Manufacturing industries	31-33	286,476	244,474	42,003	232,815	192,160	40,655	53,661	52,313	1,348
Food	311	6,532	6,309	222	5,292 i	5,071 i	220	1,240	1,238	2
Beverages and tobacco products	312	1,423	1,322	101	920	819	101	503	503	0
Textile, apparel, and leather products	313-16	734	719	15 i	631	616	15 i	103	103	0
Wood products	321	368 i	356 i	12 i	362 i	351 i	12 i	5 i	5 i	0
Paper	322	880	868	12	723	711	12	158	158	0
Printing and related support activities	323	238	236	2 i	234	232	2 i	3	3	0
Petroleum and coal products	324	298	293	5	234	229	5	64	64	*
Chemicals	325	79,468	69,462	10,006	66,301	56,488	9,813	13,167	12,974	193
Basic chemicals	3251	3,633	3,325	309 i	2,849	2,554	295 i	784	771	14
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,842	1,825	17	1,152	1,136	15 i	690	688	2
Pesticides, fertilizers, and other agricultural chemicals	3253	2,086 i	1,610 i	476	1,790 i	1,327 i	464	295 i	283 i	12
Pharmaceuticals and medicines	3254	66,737	57,606	9,132	56,612	47,646	8,966	10,125	9,960	165
Soaps, cleaning compounds, and toilet preparations	3256	3,499	3,483	16 i	2,547	2,531	16 i	952	952	0
Paints, coatings, adhesives, and other chemicals	3255, 3259	1,670 i	1,614 i	56	1,350 i	1,294 i	56	320 i	320 i	0
Plastics and rubber products	326	4,457	4,297	160	3,574	3,416	158 i	883	881	2
Nonmetallic mineral products	327	1,599	1,574	26	1,445 i	1,420 i	24	155 i	153 i	1
Primary metals	331	770	709	62	677	615	62	94	94	0
Fabricated metal products	332	2,353	2,222	130 i	2,131 i	2,000	130 i	222	222	0
Machinery	333	14,937	14,243	694	12,128	11,458	670	2,810	2,785	24
Agricultural implementa	33311	D	D	40	1,578	1,539	39	D	D	*
Semiconductor machinery	333295	3,434	3,304	130	2,941	2,821	120	493	483	10
Engines, turbines, and power transmission equipment	3336	2,883	2,820	63	2,347	2,285	62	535	534	1
Other machinery	other 333	D	D	461 i	5,261	4,813	448 i	D	D	13
Computer and electronic products	334	94,910	85,365	9,545	73,891	64,695	9,195	21,019	20,669	350
Communications equipment	3342	22,044	20,496	1,548 i	18,342	16,808	1,533 i	3,702	3,687	15
Semiconductor and other electronic components	3344	42,722	40,530	2,193	32,142	30,029	2,112	10,581	10,500	80

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Navigational, measuring, electromedical, and control instruments	3345	19,030	13,512	5,518	15,963	10,576	5,387	3,067	2,936	131
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	4,982	4,747	236	3,917	3,697	220	1,066	1,050	16
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	8,486	3,531	4,955	7,861	2,984	4,876	625	547	78
Other measuring and controlling devices	other 3345	5,561	5,234	327	4,186	3,895	291	1,375	1,339	36
Other computer and electronic products	other 334	11,114	10,827	287 i	7,444	7,282	163 i	3,670	3,545	124 i
Electrical equipment, appliances, and components	335	5,750	5,552	197 i	4,365	4,178	187 i	1,385	1,374	11 i
Transportation equipment	336	56,359	36,117	20,242 i	46,746	27,261	19,485 i	9,613	8,856	757
Automobiles, bodies, trailers, and parts	3361-63	D	23,001	D	18,404	15,900	2,504	D	7,101	D
Aerospace products and parts	3364	D	11,936	D	26,181 i	10,300	15,881 i	D	1,636	D
Aircraft, aircraft engines, and aircraft parts	336411-13	D	D	D	24,892 i	10,011	14,881 i	D	D	D
Guided missiles, space vehicles, and related parts	336414-15, 336419	D	D	D	1,290 i	289	1,001 i	D	D	D
Military armored vehicles, tanks, and tank components	336992	D	D	8	18	10	8	D	D	0
Other transportation	other 336	D	D	1,131 i	2,142 i	1,051	1,091 i	D	D	40 i
Furniture and related products	337	418	414	4 i	373	369	4 i	45	45	* i
Miscellaneous	339	14,983	14,415	568	12,789	12,230	559	2,194	2,185	8
Medical equipment and supplies	3391	12,091	11,583	508	10,309	9,809	500	1,782	1,774	8
Other miscellaneous manufacturing	3399	2,892	2,832	60 i	2,481	2,421	60 i	412	411	*
Nonmanufacturing industries	21-23, 42-81	129,562	107,452	22,110	107,913	90,409	17,504	21,649	17,042	4,607
Mining, extraction, and support activities	21	D	D	D	4,703	3,821	882	D	D	D
Utilities	22	311	259	52	310	258	52	1	1	0
Wholesale trade	42	D	D	D	339 i	329 i	10 i	D	D	D
Electronic shopping and electronic auctions	454111-12	D	D	0	1,388	1,388	0	D	D	0
Transportation and warehousing	48-49	692	688	4	679	675	4	13	13	0
Information	51	77,341	75,811	1,531	63,773	62,296	1,477	13,569	13,515	54
Publishing	511	46,157	44,840	1,317	36,140	34,869	1,270	10,017	9,971	47
Newspaper, periodical, book, and directory publishers	5111	92 i	92 i	0	88 i	88 i	0	4 i	4 i	0
Software publishers	5112	46,065	44,748	1,317	36,052	34,781	1,270	10,013	9,967	47
Telecommunications	517	3,816	3,771	45	3,755	3,710	45	61	61	0

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Data processing, hosting, and related services	518	10,322	10,215	108	9,029	8,926	103	1,294	1,289	5
Other information	other 51	17,046	16,985	61	14,849	14,791	59	2,196	2,194	2
Finance and insurance	52	4,748	4,715	32	4,122	4,090	32	625	625	0
Real estate and rental and leasing	53	268	268	* i	262	262	* i	6	6	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	58	58	0	55	55	0	3	3	0
Other real estate and rental and leasing	other 53	210	210	* i	207	207	* i	3	3	0
Professional, scientific, and technical services	54	37,476 i	18,048 i	19,428	30,975 i	16,061 i	14,914	6,501	1,987 i	4,514
Architectural, engineering, and related services	5413	3,440	1,549 i	1,891	3,375	1,503 i	1,871	65	45	20
Computer systems design and related services	5415	12,536 i	10,117 i	2,419 i	11,019 i	8,644 i	2,375 i	1,517 i	1,473 i	44
Scientific R&D services	5417	17,329	2,746	14,583	12,807	2,668	10,139	4,522	78	4,444
Biotechnology R&D	541711	4,898	727	4,170	3,459	692	2,767	1,438	35	1,403
Physical, engineering, and life sciences (except biotechnology) R&D	541712	11,749	1,988	9,760	8,670	1,950	6,720	3,079	38	3,041
Social sciences and humanities R&D	541720	682	30	652	678	26	651	4 i	4 i	1
Other professional, scientific, and technical services	other 54	4,172 i	3,637 i	535	3,775	3,245 i	529	398 i	392 i	6
Health care services	621-23	501 i	439 i	62 i	501 i	439 i	62 i	*	*	0
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	D	70	861 i	791 i	70	D	D	0
All companies (number of domestic employees)	-	416,038	351,926	64,113	340,728	282,570	58,158	75,310	69,356	5,955
Small companies <sup>a</sup>										
5-499	-	58,967	46,788	12,179 i	54,773	42,889	11,884 i	4,194	3,899	295
5-99	-	30,333 i	22,876 i	7,456 i	29,078 i	21,695 i	7,383 i	1,255	1,181	74
5-49	-	19,607 i	14,825 i	4,783 i	18,900 i	14,169 i	4,730 i	707 i	655 i	52
5-9	-	3,390 i	2,514 i	875 i	3,295 i	2,426 i	868 i	95 i	88 i	7
10-24	-	7,450 i	5,770 i	1,680 i	7,177 i	5,506 i	1,671 i	273 i	264 i	9 i
25-49	-	8,767 i	6,540 i	2,227 i	8,428 i	6,237 i	2,191 i	339	303	36
50-99	-	10,726	8,052	2,674 i	10,178 i	7,526	2,652 i	547	526	21
100-249	-	14,984	12,385	2,599	13,492	11,006	2,486	1,492	1,379	113
250-499	-	13,650	11,526	2,123	12,203	10,188	2,015	1,447	1,339	108
Medium and large companies										
500-999	-	15,526	13,934	1,592	13,262	11,736	1,525	2,264	2,198	66 i
1,000-4,999	-	71,736	60,665	11,071	57,551	47,807	9,744	14,185	12,858	1,327 i

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5,000–9,999	–	51,020	39,991	11,029	38,202	30,680	7,522	12,818	9,312	3,506
10,000–24,999	–	63,639	55,818	7,822	54,445	46,904	7,542	9,194	8,914	280
25,000 or more	–	155,150	134,730	20,421 i	122,495	102,555	19,941 i	32,655	32,175	480 i

\* = amount < \$500,000; 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.

<sup>a</sup> Upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

NOTES: 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: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2014.