

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: 2013  
(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 the company	Paid for by others	Total	Paid for by the company	Paid for by others	Total	Paid for by the company	Paid for by others
All industries	21–23, 31–33, 42–81	395,628	332,040	63,588	322,528	264,913	57,615	73,100	67,128	5,973
Manufacturing industries	31–33	272,580	230,644	41,936	221,476	181,170	40,306	51,104	49,474	1,630
Food	311	6,343	6,107	236	5,028	4,801	227	1,315	1,306	9
Beverage and tobacco products	312	1,358	1,258	100 i	827	727	100 i	531	531	0
Textile, apparel, and leather products	313–16	760	739	21 i	662	642	21 i	98	98	0
Wood products	321	222	211	11	220	209	11	2	2	0
Paper	322	1,022	1,009	13 i	920	907	13 i	103	103	*
Printing and related support activities	323	258 i	230 i	28 i	252 i	224 i	28 i	6	6	0
Petroleum and coal products	324	288	282	5	242	236	5	46	46	*
Chemicals	325	74,397	66,769	7,629	61,664	54,285	7,379	12,733	12,484	250
Basic chemicals	3251	3,373	3,052	321	2,658	2,341	317	715	711	4
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,570	1,408	163	1,065	954	111	506	454	52
Pesticide, fertilizer, and other agricultural chemicals	3253	1,966 i	1,587 i	379	1,691 i	1,325 i	366	275 i	262 i	13
Pharmaceuticals and medicines	3254	62,477	55,762	6,715	52,426	45,891	6,534	10,051	9,870	181
Soap, cleaning compound, and toilet preparation	3256	3,393	3,382	11 i	2,469	2,458	11 i	924	924	0
Paint, coating, adhesive, and other chemicals	3255, 3259	1,618	1,578	40	1,355	1,315	40	263	263	0
Plastics and rubber products	326	4,580	4,423	158 i	3,650	3,496	154 i	931	927	4
Nonmetallic mineral products	327	1,578	1,551	27 i	1,329 i	1,303 i	26 i	249 i	248 i	1
Primary metals	331	706	687	19	624	605	19	82	82	0
Fabricated metal products	332	2,328 i	2,049 i	278 i	2,212 i	1,934 i	278 i	116	116	0
Machinery	333	15,502	14,913	589	12,650	12,092	558	2,852	2,820	31
Agricultural implement	33311	2,243	2,207	36	1,597	1,561	36	646	646	*
Semiconductor machinery	333295	3,645	3,547	98	3,194	3,097	97	451	450	1
Engine, turbine, and power transmission equipment	3336	1,795	1,677	118	1,448	1,336	113	347	342	5
Other machinery	other 333	7,819	7,481	337	6,411	6,098	312	1,408	1,383	25
Computer and electronic products	334	85,480	75,215	10,265	67,205	57,364	9,841	18,275	17,852	423
Communications equipment	3342	20,353	18,354	1,999 i	15,658	13,693	1,964 i	4,696	4,661	35
Semiconductor and other electronic components	3344	40,609	38,220	2,389	30,800	28,576	2,224	9,809	9,644	165
Navigational, measuring, electromedical, and control instruments	3345	16,769	11,169	5,600	14,478	9,001	5,477	2,291	2,168	123
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	2,837	2,672	165	2,634	2,470	164	202	202	1

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Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	8,753	3,599	5,155	8,106	3,037	5,069	647	561	86
Other measuring and controlling device	other 3345	5,179	4,898	281	3,738	3,494	245	1,441	1,405	36
Other computer and electronic products	other 334	7,748	7,472	277	6,269	6,093	176	1,480	1,379	101
Electrical equipment, appliances, and components	335	5,741	5,234	507 i	4,136	3,660	475 i	1,605	1,574	31
Transportation equipment	336	55,191	33,515	21,677 i	45,972	25,165	20,807 i	9,219	8,350	870
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	23,605	20,495	3,110	16,729	14,081	2,647	6,877	6,414	463 i
Aerospace products and parts	3364	29,331	11,894	17,438 i	27,114	10,042	17,072 i	2,218	1,852	366
Aircraft, aircraft engine, and aircraft parts	336411-13	D	D	D	D	9,765	D	D	D	D
Guided missile, space vehicle, and related parts	336414-15, 336419	D	D	D	D	278	D	D	D	D
Military armored vehicle, tank, and tank components	336992	9 i	7 i	2 i	9 i	7 i	2 i	0	0	0
Other transportation	other 336	2,246	1,119	1,127	2,121	1,035	1,086	125	84	41
Furniture and related products	337	402	401	1 i	374	374	1 i	28	28	0
Miscellaneous manufacturing	339	16,422	16,050	373	13,509	13,147	362	2,913	2,903	10
Medical equipment and supplies	3391	13,456	13,129	327	10,954	10,638	317	2,502	2,492	10
Other miscellaneous manufacturing	3399	2,966	2,920	46 i	2,555	2,509	46 i	411	411	*
Nonmanufacturing industries	21-23, 42-81	123,048	101,396	21,652	101,052	83,742	17,310	21,996	17,654	4,343
Mining, extraction, and support activities	21	4,449	D	D	3,997	3,602	395	452	D	D
Utilities	22	317	267	50	294	243	50	23	23	0
Wholesale trade	42	554 i	535 i	18 i	529 i	510 i	18 i	25 i	25 i	0
Electronic shopping and electronic auctions	454111-12	1,846	1,846	1 i	1,357 i	1,356 i	1 i	490	490	0
Transportation and warehousing	48-49	D	418	D	D	411	D	7	7	0
Information	51	70,857	69,613	1,244	57,207	56,039	1,168	13,650	13,574	76
Publishing	511	47,012	45,903	1,109	35,675	34,637	1,038	11,337	11,266	71
Newspaper, periodical, book, and directory publishers	5111	348 i	347 i	1 i	342 i	341 i	1 i	6 i	6 i	0
Software publishers	5112	46,664	45,556	1,107	35,333	34,296	1,037	11,331	11,260	71
Telecommunications	517	3,104	3,100	4 i	3,041	3,037	4 i	63	63	0
Data processing, hosting, and related services	518	7,077	6,960	117	6,446	6,333	113	631	627	5
Other information	other 51	13,665	13,650	15	12,046	12,032	14	1,619	1,618	1
Finance and insurance	52	5,011	5,001	10	4,308	4,298	10	703	703	0
Real estate and rental and leasing	53	161	161	* i	150	150	* i	11	11	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	D	D	0	58 i	58 i	0	D	D	0
Other real estate and rental and leasing	other 53	D	D	* i	92	92	* i	D	D	0

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Professional, scientific, and technical services	54	37,560	D	D	31,017	15,617 i	15,400	6,543	D	D
Architectural, engineering, and related services	5413	3,174	1,296	1,878	3,133	1,261	1,872	41	35	6
Computer systems design and related services	5415	10,563 i	9,385 i	1,178 i	9,268 i	8,107 i	1,161 i	1,294	1,277	17
Scientific research and development services	5417	18,464	2,926	15,538	14,201	2,838	11,363	4,263	89	4,174
Biotechnology research and development	541711	5,899	1,383	4,516	4,499	1,331	3,168 i	1,400	52	1,348
Physical, engineering, and life sciences (except biotechnology) research and development	541712	11,771	1,507	10,263	8,910	1,470	7,440	2,861	37	2,824
Social sciences and humanities research and development	541720	795	36 i	759	792	36 i	756	3	0	3
Other professional, scientific, and technical services	other 54	5,359	D	D	4,415	3,411	1,003	944	D	D
Health care services	621-23	533 i	437 i	96	526 i	430 i	96	7	7	0
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	1,171 i	D	D	1,086 i	D	85	85	0
All companies (number of domestic employees)	-	395,628	332,040	63,588	322,528	264,913	57,615	73,100	67,128	5,973
Small companies <sup>a</sup>										
5-499	-	57,172	46,007	11,166	53,002	42,106	10,897	4,170	3,901	269
5-99	-	28,670 i	22,300 i	6,370 i	27,148 i	20,886 i	6,262 i	1,522	1,413	108
5-49	-	19,415 i	14,807 i	4,609 i	18,238 i	13,726 i	4,513 i	1,177	1,081	96
5-9	-	3,454 i	2,247 i	1,207 i	3,402 i	2,195 i	1,207 i	52 i	52 i	* i
10-24	-	7,580 i	5,920 i	1,660 i	6,895 i	5,290 i	1,605 i	685	630	55
25-49	-	8,381 i	6,640 i	1,741	7,941 i	6,241 i	1,700	440	399 i	41
50-99	-	9,254	7,493	1,761	8,910	7,161	1,749	344	332	12
100-249	-	14,941	12,139	2,802	13,666	10,922	2,743	1,275	1,217	58
250-499	-	13,562	11,567	1,995	12,189	10,297	1,892	1,373	1,270	103
Medium and large companies										
500-999	-	13,658	11,770	1,888	12,002	10,280	1,722	1,656	1,490	166 i
1,000-4,999	-	69,097	57,770	11,327	55,517	45,342	10,175	13,580	12,428	1,152 i

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5,000–9,999	–	42,350	32,363	9,987	31,514	25,009	6,505	10,836	7,354	3,482
10,000–24,999	–	60,999	53,669	7,330	51,218	44,275	6,942	9,782	9,394	388
25,000 or more	–	152,351	130,461	21,890 i	119,275	97,901	21,374 i	33,076	32,560	516

\* = 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 = 2007 North American Industry Classification System.

<sup>a</sup> Upper bound based on U.S. Small Business Administration's definition of a small business; 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 based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, 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, 2013.