

TABLE 31. Domestic R&D paid for by others and performed by the company, by source of funds, industry, and company size: 2014

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Companies	Companies outside the United States		U.S. federal government agencies	U.S. state government agencies	Foreign government agencies	All other	
			in the United States	Company's parent	Unaffiliated companies				In the United States	Outside the United States
All industries	21-23, 31-33, 42-81	58,158	13,227	13,407	3,839	26,554 i	138	415 i	523	55
Manufacturing industries	31-33	40,655	5,062	10,746	2,827	21,303 i	43	D	226	D
Food	311	220	14 i	194	* i	*	0	0	12 i	0
Beverages and tobacco products	312	101	* i	D	D	* i	0	0	D	0
Textiles, apparel, and leather products	313-16	15 i	3 i	2 i	0	9 i	0	0	2 i	0
Wood products	321	12 i	2 i	6 i	* i	2 i	* i	0	0	0
Paper	322	12	7 i	3	3	0	0	0	* i	0
Printing and related support activities	323	2 i	1 i	* i	1 i	* i	* i	0	* i	0
Petroleum and coal products	324	5	5	0	*	0	0	0	0	0
Chemicals	325	9,813	1,660	5,407	2,267	404	15	1	D	D
Basic chemicals	3251	295 i	26	D	D	79 i	0	0	* i	0
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	15 i	3	1 i	* i	10 i	0	0	1	* i
Pesticides, fertilizers, and other agricultural chemicals	3253	464	8 i	D	D	4 i	0	0	2 i	* i
Pharmaceuticals and medicines	3254	8,966	1,600	4,858	2,164	272	15	1	D	D
Soaps, cleaning compounds, and toilet preparations	3256	16 i	9 i	2 i	0	6 i	0	0	0	0
Paints, coatings, adhesives, and other	3255, 3259	56	13	9 i	1 i	33	0	0	*	* i
Plastics and rubber products	326	158 i	139 i	16 i	2 i	1 i	* i	0	0	0
Nonmetallic mineral products	327	24	4	13	4 i	4	* i	0	*	* i
Primary metals	331	62	36	2 i	1 i	22 i	0	* i	0	0
Fabricated metal products	332	130 i	21 i	5 i	* i	34 i	1 i	* i	69 i	0
Machinery	333	670	199 i	299 i	86	78	1	*	6 i	* i
Agricultural implements	33311	39	2 i	5	31	2 i	0	* i	* i	0
Semiconductor machinery	333295	120	1	90 i	28	1	* i	0	0	0
Engines, turbines, and power transmission equipment	3336	62	4	12	0	45	1	0	* i	0
Other machinery	other 333	448 i	192 i	192	27 i	30 i	* i	*	6 i	* i
Computer and electronic products	334	9,195	1,467	2,759	269	4,456	17	194	33 i	1
Communications equipment	3342	1,533 i	260 i	531	9	733 i	* i	* i	0	0
Semiconductors and other electronic components	3344	2,112	247	1,686	138	41	* i	* i	0	1
Navigational, measuring, electromedical, and control instruments	3345	5,387	875	522	110	3,638	17	193	32 i	0
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	220	30 i	124	9 i	27 i	0	0	30 i	0
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	4,876	799	209	93	3,565	17	193	1	0
Other measuring and controlling devices	other 3345	291	46	190	8	46	0	* i	1	0

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Other computer and electronic products	other 334	163 i	85 i	19	13	44	0	* i	1	0
Electrical equipment, appliances, and components	335	187 i	15 i	100 i	17 i	48 i	*	0	*	7 i
Transportation equipment	336	19,485 i	1,398	1,532	134	16,153 i	7	D	D	*
Automobiles, bodies, trailers, and parts	3361-63	2,504	625	1,532	87 i	254 i	4	0	1 i	0
Aerospace products and parts	3364	15,881 i	747	0	47	14,826 i	3	D	D	*
Aircraft, aircraft engines, and aircraft parts	336411-13	14,881 i	734	0	47	D	3	D	D	*
Guided missiles, space vehicles, and related parts	336414-15, 336419	1,001 i	13 i	0	0	D	0	D	0	0
Military armored vehicles, tanks, and tank components	336992	8	D	0	* i	D	0	0	* i	0
Other transportation	other 336	1,091 i	D	*	* i	D	* i	0	* i	0
Furniture and related products	337	4 i	1 i	0	D	3 i	* i	* i	D	0
Miscellaneous	339	559	92 i	D	D	90 i	2 i	0	29 i	0
Medical equipment and supplies	3391	500	87 i	272	36	75 i	2 i	0	29 i	0
Other miscellaneous manufacturing	3399	60 i	5 i	D	D	15 i	1 i	0	0	0
Nonmanufacturing industries	21-23, 42-81	17,504	8,165	2,661 i	1,012	5,251	95	D	297	D
Mining, extraction, and support activities	21	882	393	D	D	2	*	0	D	1
Utilities	22	52	0	3	0	49	* i	0	1	0
Wholesale trade	42	10 i	* i	10 i	0	0	0	0	0	0
Electronic shopping and electronic auctions	454111-12	0	0	0	0	0	0	0	0	0
Transportation and warehousing	48-49	4	0	0	3	*	0	0	0	0
Information	51	1,477	517	734	41	162	*	0	22	0
Publishing	511	1,270	463	667	40	99	* i	0	1	0
Newspaper, periodical, book, and directory publishers	5111	0	0	0	0	0	0	0	0	0
Software publishers	5112	1,270	463	667	40	99	* i	0	1	0
Telecommunications	517	45	12 i	5	1 i	9	0	0	19	0
Data processing, hosting, and related services	518	103	39	8	0	53	*	0	2	0
Other information	other 51	59	4 i	53	* i	1 i	0	0	* i	0
Finance and insurance	52	32	D	0	0	0	0	0	D	0
Real estate and rental and leasing	53	* i	* i	0	0	0	0	0	0	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	0	0	0	0	0	0	0	0
Other real estate and rental and leasing	other 53	* i	* i	0	0	0	0	0	0	0
Professional, scientific, and technical services	54	14,914	7,189	1,781 i	610 i	5,016	74	D	223	D
Architectural, engineering, and related services	5413	1,871	327	138 i	51	1,298	20	0	37	0
Computer systems design and related services	5415	2,375 i	690 i	1,085 i	10 i	471 i	22	0	D	D

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Scientific R&D services	5417	10,139	6,105	417	524 i	2,954	32	D	D	1
Biotechnology R&D	541711	2,767	2,237	31 i	355 i	114	6	0	23	0
Physical, engineering, and life sciences (except biotechnology) R&D	541712	6,720	3,851	366	169	2,270	7	D	D	1
Social sciences and humanities R&D	541720	651	16	20	* i	569	18	*	28	*
Other professional, scientific, and technical services	other 54	529	67	141	25	293	1	*	2	0
Health care services	621-23	62 i	56 i	4	1 i	1 i	0	0	* i	0
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	70	D	D	D	21	21	0	0	0
All companies (number of domestic employees)	-	58,158	13,227	13,407	3,839	26,554 i	138	415 i	523	55
Small companies ^a										
5-499	-	11,884 i	3,547 i	3,749 i	743 i	3,399	70	10	320	46
5-99	-	7,383 i	2,252 i	2,462 i	468 i	1,942 i	39	9	186 i	23 i
5-49	-	4,730 i	1,500 i	1,431 i	160 i	1,463 i	22	8	130 i	16 i
5-9	-	868 i	353 i	66 i	37 i	318 i	4 i	2	87 i	1 i
10-24	-	1,671 i	752 i	180	64 i	617 i	13	3	28 i	13 i
25-49	-	2,191 i	394 i	1,185 i	59	528	5	3	15 i	2
50-99	-	2,652 i	753 i	1,031 i	308 i	480	17	1 i	56	6 i
100-249	-	2,486	726	599	100	950	5	* i	84 i	21
250-499	-	2,015	568	688	175	507	25	1	50	2
Medium and large companies										
500-999	-	1,525	364 i	769	118	247	1 i	* i	25	1 i
1,000-4,999	-	9,744	2,430 i	4,848	1,066	1,336	29	2 i	32	1 i
5,000-9,999	-	7,522	3,692	2,443	330	992 i	16	* i	48	1 i
10,000-24,999	-	7,542	1,187	1,283	1,310	3,724	20	2 i	13	4 i
25,000 or more	-	19,941 i	2,008	316	272 i	16,858 i	2	401 i	84	1

* = 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.

^a 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.